

1988

## 1988-1989 Southern Illinois University Bulletin Carbondale Campus (Counselor's Advisement Catalog)

Southern Illinois University Carbondale

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Southern Illinois University  
at Carbondale

# BULLETIN

1988-89

Counselor's Advisement  
Catalog

# SIUC...

*where  
good things  
happen!*

SIU



# Southern Illinois University at Carbondale BULLETIN

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## 1988-89 Counselor's Advisement Catalog

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

Volume 29, Number 2, July 1987

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## COUNSELOR'S ADVISEMENT CATALOG

Dear Counselor:

We are pleased to provide you with our 1988-89 Counselor's Advisement Catalog. We hope that it continues to assist you in advising your students relative to their preparation and transition to Southern Illinois University at Carbondale.

There are both major revisions and new program information included in our revised edition that merit review. Please pay particular attention to the following sections:

New General Education Requirements (see page 40).

Engineering Admission and Retention Policies (see page 15).

College of Business and Administration Admission and Retention Policies (see page 50).

Admission To Teacher Certification Programs (see page 14).

New Major in Foreign Language and International Trade (see page 131).

New Specializations Under Vocational Education Studies which will replace separate majors in Business Education, Home Economics Education, and Occupational Education (see page 220).

Please discard all older editions of this publication. Should you need additional copies, write or call us and we will be glad to provide them.

M. George Mandis, Editor

NEW STUDENT ADMISSION SERVICES  
SOUTHERN ILLINOIS UNIVERSITY AT CARBONDALE  
CARBONDALE, ILLINOIS 62901-4710

800-642-3531 (toll free in Illinois)  
618-536-4405 (direct)

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# UNIVERSITY CALENDAR

## Fall Semester 1987

Fall Orientation  
Semester Classes Begin  
Labor Day Holiday  
Thanksgiving Vacation

Final Examinations

Wednesday, August 19-Sunday, August 23  
Monday, August 24, 8:00 a.m.  
Monday, September 7  
Saturday, 12:00 noon--Monday, 8:00 a.m.  
November 21-November 30  
Monday-Friday, December 14-18

## Spring Semester 1988

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

Final Examinations  
Commencement

Monday, January 18  
Tuesday, January 19, 8:00 a.m.  
Monday, February 15  
Saturday, 12:00 noon-Monday, 8:00 a.m.,  
March 12-21  
Monday-Friday, May 9-13  
Saturday, May 14 and Sunday, May 15

## Summer Session 1988

Eight Week Session Begins  
Independence Day Holiday  
Final Examinations  
Commencement

Monday, June 13, 7:30 a.m.  
Monday, July 4  
Thursday and Friday, August 4-5  
Saturday, August 6

## Fall Semester 1988--Proposed

Semester Classes Begin  
Labor Day Holiday  
Thanksgiving Vacation

Final Examinations

Monday, August 22, 8:00 a.m.  
Monday, September 5  
Saturday, 12:00 noon--Monday, 8:00 a.m.,  
November 19 - November 28  
Monday--Friday, December 12-16

## Spring Semester 1989--Proposed

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

Final Examinations  
Commencement

Monday, January 16  
Tuesday, January 17, 8:00 a.m.  
Monday, February 20  
Saturday, 12:00 noon--Monday, 8:00 a.m.,  
March 11-20  
Monday--Friday, May 8-12  
Saturday, May 13





## Old Campus

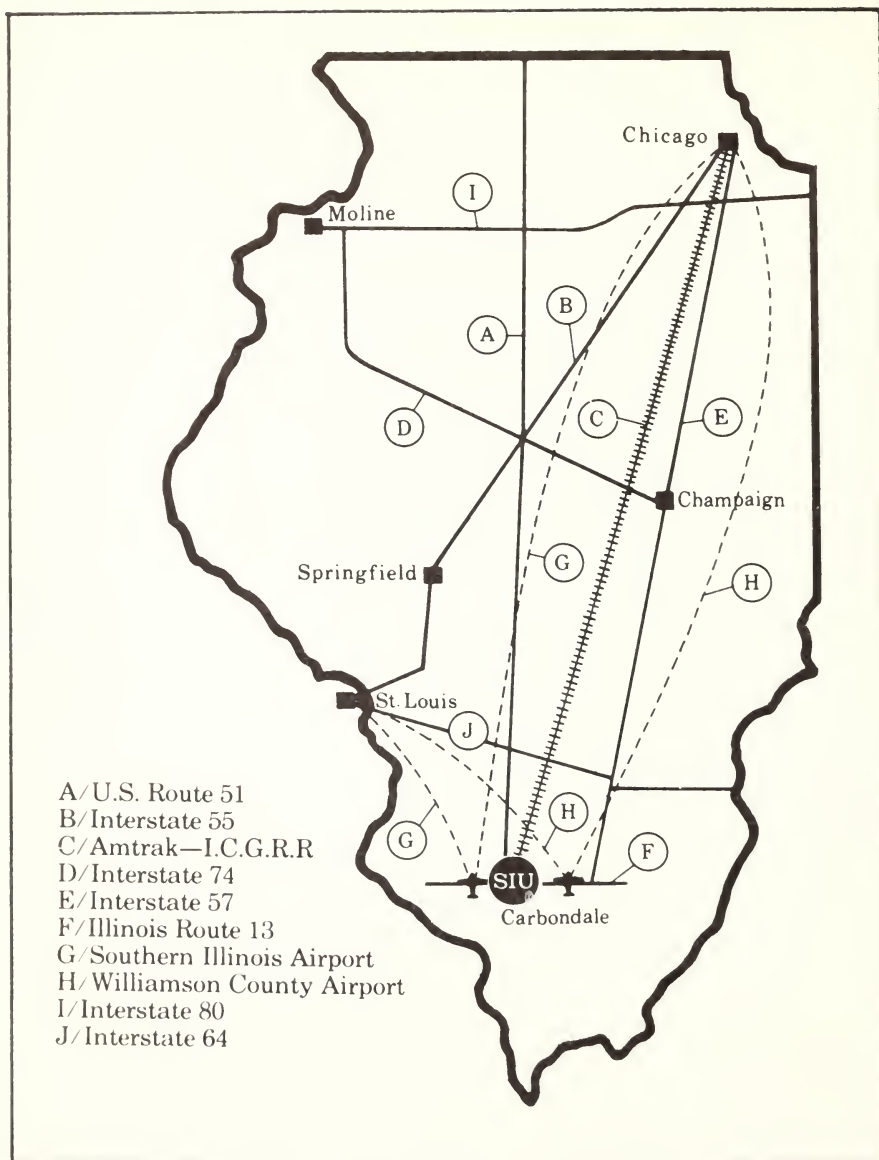
1. Old Main Site
  2. Altgeld Hall (1896)
  3. Wheeler Hall (1904)
  4. Allyn Building (1908)
  5. Anthony Hall (1913)
  6. Shryock Auditorium (1918)
  7. Davies Gymnasium (1925)
  8. Parkinson Laboratory (1928)
  9. McAndrew Stadium (1938)
- New Campus
10. Pulliam Hall (1951)
  12. Woody Hall (1953)
  13. Lindgren Hall (1953)
  14. Morris Library (1956)
  15. Thompson Point Residence Halls (1957)
  16. Agriculture Building (1957)
  17. Quigley Hall (1959)
  18. Southern Hills Family Housing (1960)
  19. Greek Row (1960)
  20. Student Center (1961)
  21. SIU Arena (1964)
  22. Wham Education Building (1964)
  23. University Park Residence Halls (1965)
  24. Lawson Hall (1965)
  25. Communications Building (1966)
  26. Health Service (1966)
  27. Technology Buildings (1966)
  28. Henry J. Rehn Hall (1967)
  29. James W. Neckers Building (1968)
  30. Evergreen Terrace Family Housing (1968)
  31. Washington Square (1967)
  32. Brush Towers Residence Halls (1968)
  33. Life Science II (1971)
  34. President's Home (1971)
  35. Faner Building (1973)
  36. Student Recreation Center (1977)
  37. School of Technical Careers Building (1978)
  38. Hiram H. Lesar Law Building (1981)

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Counseling Center  
Disabled Student Services  
Graduate Studies and Research  
International Education  
New Student Admission Services  
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 1128-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 1.9 million volumes and subscribing to 23,000 current periodicals.

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

## UNIVERSITY DIRECTORY

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

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

### OFFICES

|  |                |
|--|----------------|
| SIUC (University Switchboard)                              | (618) 453-2121 |
| Admissions and Records                                     | (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 |
| 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 |
| New Student Admission Services                             | (618) 536-4405 |
| (Illinois residents call toll free)                        | (800) 642-3531 |
| Parking Division   | (618) 453-5369 |
| Student Development  | (618) 453-5714 |
| Student Life   | (618) 536-2338 |
| Student Services   | (618) 453-2374 |
| Student Work and Financial Assistance                      | (618) 453-4334 |
| Testing Center (CLEP, Placement/Proficiency, ACT Residual) | (618) 536-3303 |
| University 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 (Rehn Building)            | (618) 453-3328 |
| Communications and Fine Arts, College of (Communications Building) | (618) 453-4308 |
| Education, College of (Wham Education Building)                    | (618) 453-2415 |
| Engineering and Technology, College of (Technology Building)       | (618) 453-4321 |
| Undergraduate Academic Services (Woody Hall)                       | (618) 536-5506 |
| Graduate Studies and Research (Woody Hall)                         | (618) 536-7791 |
| Human Resources, College of (Quigley Building)                     | (618) 453-2251 |
| Law, School of   | (618) 536-7711 |
| Liberal Arts, College of (Faner Building)                          | (618) 453-2466 |
| Medicine, School of (Wheeler Building)                             | (618) 536-5511 |
| Science, College of (Neckers Building)                             | (618) 536-6666 |
| School of Technical Careers (Technical Careers Building)           | (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; Prime Air, TWA; SIUC Air Institute Charter Service; highway routes Interstate 57, US 51, Illinois 13.

### UNIVERSITY

Name: Southern Illinois University at Carbondale

Founded: 1869

President: John C. Guyon - Acting

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: 7,253; on-campus 1128 acres

Campus Buildings: 255

Colors: Maroon and white

Mascot: Saluki (Egyptian hunting dog)

### STUDENT DATA

Enrollment, Fall 1986: 23,261

Undergraduate, 19,137; graduate, 3,545; Professional 579;

Men, 14,557; Women, 8,704

Residency: Illinois 18,184 (78%); out-of-state 3,112 (13%); 97 other countries, 1,965 (9%)

### PERSONNEL, 1986

Percentage full-time faculty with doctorate: 68%

Undergraduate student/faculty ratio: 18:1

### DEGREES

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

Graduate: M.Acc., M.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

American Association of Museums  
The Association of American University Presses  
North Central Association of Colleges and Secondary Schools  
Honors Council of the Illinois Region (HCIR)  
Liaison Committee on Medical Education of the American Medical Association and the  
Association of American Medical Colleges  
Association of Research Libraries  
National Shorthand Reporters Association  
Photo/Marketing Association International  
Association of Collegiate Schools of Architecture  
American Institute of Architects  
National Collegiate Honors Council  
Upper Midwest Honors Council  
Association of University Programs in Health Administration (AUPHA)  
American Association of Airport Executives (AAAE)  
Federal Aviation Administration  
National Fire Protection Association  
Western Association Accreditation  
National Institute for Automotive Service Excellence  
Illinois Department of Registration and Education  
National League for Nursing  
Committee on Allied Health Accreditation (CAHEA) of the American Medical Association and  
the Joint Review Committee for Radiologic Technology Education  
CAHEA and the Joint Review Committee for Respiratory Therapy Education  
American Physical Therapy Association  
American Chemical Society  
American Institute of Professional Geologists  
Illinois State Board of Education  
American Board of Funeral Service Education  
Commission on Dental Accreditation of the American Dental Association  
American Bar Association  
National Association of Schools of Public Affairs and Administration  
American Psychological Association  
American Association for Accreditation of Laboratory Animal Care  
Accredited Board for Engineering and Technology (ABET)  
Council on Social Work Education  
Commission on Accreditation of Rehabilitation Institute  
Council on Rehabilitation Education  
Association of American Law Schools  
National Recreation and Parks Association (National Accreditation Council)  
University Council for Vocational Education  
National Association of Industrial Technology (NAIT)  
American Board of Examiners in Speech Pathology and Audiology  
National Association of Schools of Art and Design  
National Association of Schools of Music  
National Council for Accreditation of Teacher Education  
American Library Association  
National Athletic Trainers Association (NATA)  
Society of American Foresters (SAF)  
Accreditation Council of the American Assembly of Collegiate Schools of Business  
Accrediting Council on Education in Journalism and Mass Communications



## UNDERGRADUATE CURRICULA AND COURSES

|  |  |
|--|--|
| Accounting                               | Finance                                  |
| Administration of Justice                | Fire Science Management                  |
| Advanced Technical Studies               | Food and Nutrition                       |
| African Studies <sup>1</sup>             | Foreign Language and International Trade |
| Aging Studies <sup>1</sup>               | Forestry                                 |
| Agribusiness Economics                   | French                                   |
| Agricultural Education                   | Geography                                |
| Agricultural Education & Mechanization   | Geology                                  |
| Agriculture, General                     | German                                   |
| Allied Health Careers Specialties*       | Greek <sup>1,3</sup>                     |
| Animal Industries                        | Health Care Management                   |
| Anthropology                             | Health Education                         |
| Aquatics <sup>1,4</sup>                  | History                                  |
| Architectural Technology*                | Industrial Technology                    |
| Art                                      | Interior Design                          |
| Asian Studies <sup>1</sup>               | Japanese <sup>1,3</sup>                  |
| Athletic Training <sup>4</sup>           | Journalism                               |
| Automotive Technology*                   | Language Arts (English and Reading)      |
| Aviation Flight*                         | Latin <sup>1,3</sup>                     |
| Aviation Maintenance Technology*         | Law Enforcement                          |
| Aviation Management                      | Linguistics                              |
| Avionics Technology*                     | Management                               |
| Biological Sciences                      | Marketing                                |
| Black American Studies <sup>1</sup>      | Mathematics                              |
| Botany                                   | Mechanical Engineering                   |
| Business and Administration              | Microbiology                             |
| Business Economics                       | Mining Engineering                       |
| Chemistry                                | Mortuary Science and Funeral Service*    |
| Child and Family                         | Museum Studies <sup>1</sup>              |
| Chinese <sup>1,3</sup>                   | Music                                    |
| Cinema and Photography                   | Nursing                                  |
| Civil Engineering                        | Paralegal Studies for Legal Assistants   |
| Classical Civilization <sup>1</sup>      | Philosophy                               |
| Classics                                 | Photographic Production Technology*      |
| Clothing and Textiles                    | Physical Education                       |
| Coaching <sup>1,4</sup>                  | Physical Therapist Assistant*            |
| Commercial Graphics - Design*            | Physics                                  |
| Communication Disorders and Sciences     | Physiology                               |
| Community Development <sup>1</sup>       | Plant and Soil Science                   |
| Comparative Literature <sup>1</sup>      | Political Science                        |
| Computer Information Processing          | Psychology                               |
| Computer Science                         | Radio-Television                         |
| Construction Technology                  | Radiologic Technology*                   |
| Consumer Economics and Family Management | Recreation                               |
| Consumer Studies <sup>1</sup>            | Religious Studies                        |
| Dance <sup>1,4</sup>                     | Respiratory Therapy Technology*          |
| Dental Hygiene*                          | Russian                                  |
| Dental Technology*                       | Secretarial and Office Specialties*      |
| Design                                   | Social Studies                           |
| Early Childhood                          | Social Work                              |
| Earth Science <sup>1</sup>               | Sociology                                |
| East Asian Civilizations <sup>1,3</sup>  | Spanish                                  |
| Economics                                | Special Major                            |
| Educational Media <sup>1</sup>           | Special Education                        |
| Electrical Engineering                   | Speech Communication                     |
| Electronics Management                   | Theater                                  |
| Electronics Technology*                  | Tool and Manufacturing Technology*       |
| Elementary Education                     | Uncommon Languages <sup>1,2</sup>        |
| Engineering                              | University Studies                       |
| Engineering Technology                   | Vocational Education Studies             |
| English                                  | Women's Studies <sup>1</sup>             |
| Equine Studies <sup>1</sup>              | Zoology                                  |
| Pre-Professional Programs <sup>5</sup>   |  |
| Pre-Dentistry                            | Pre-Pharmacy                             |
| Pre-Law                                  | Pre-Physical Therapy                     |
| Pre-Medicine                             | Pre-Podiatry                             |
| Pre-Nursing                              | Pre-Theology                             |
| Pre-Osteopathy                           | Pre-Veterinary Science                   |
| Pre-Optometry                            |  |

<sup>1</sup> Minor only.

<sup>2</sup> Described under Linguistics.

<sup>3</sup> Described under Foreign Languages.

<sup>4</sup> Described under Physical Education.

<sup>5</sup> Preparatory 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:

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

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

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

### ACT/APP

Beginning freshmen can simplify their admission to SIUC by indicating at the time they write the American College Test (ACT) that their test scores should be sent to Southern Illinois University at Carbondale (college code 1144). Students who take the ACT during 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 19 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 19 but greater than 14 will be sent a special application for admission. This document must be completed and returned to the Admissions Office with a copy of the student's transcript. Students with test scores less than 15 must submit a regular application for admission.

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

### REQUIRED MATERIALS AND PROCEDURES

#### HIGH SCHOOL APPLICANTS

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

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

#### G.E.D. APPLICANTS

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

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

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

#### TRANSFER STUDENTS

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

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

Transfer students who will have less than 26 semester or 39 quarter hours prior to entering SIUC may also be considered for admission as early as one year in advance provided they are in their first term at a college and qualify for admission as beginning freshmen. Students will be considered for admission upon submission of the following materials:

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; those who did not graduate from high school should submit results of the G.E.D. examination and their incomplete high school record.

New Student Admission Services assists high schools and community colleges by providing representatives for college day and night programs, counseling prospective students, visiting schools and colleges on request, distributing university materials, and providing general assistance to counselors. Counselors should feel free to contact members of this staff any time when information or materials are needed.

New Student Admission Services  
Southern Illinois University at Carbondale  
Carbondale, Illinois 62901-4710  
Phone: 618-536-4405  
Toll Free (Illinois Residents) 800-642-3531

|                          |           |
|--------------------------|-----------|
| Tom McGinnis             | Director  |
| Tammy Gormley Cavarretta | Counselor |
| Tammy Gwaltney           | Counselor |
| Dianna King              | Counselor |
| Brenda Major             | Counselor |
| Debbie Perry             | Counselor |
| Bob Quane (Chicago area) | 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 page 15, for College of Business and Administration majors, see page 50.

Applicants seeking admission to a baccalaureate program who have an ACT composite score of 19 or higher (SAT 810) 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.

A limited number of applicants who do not meet the University's entrance requirements may be granted admission to the fall or spring semesters 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.

##### 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 SIUC does NOT insure admission into one of the above two year associate degree programs. Interested counselors/students are urged to contact the individual program coordinators to determine what additional materials may be required for admission. All students will receive further information after their admission to the University.

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 page 15, for College of Business and Administration majors, see page 50.

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

Transfer students who have completed a minimum of one year of work can be considered for admission one year in advance of their date of matriculation if they plan to transfer without interruption. Students who have completed less than one year of study may initiate the admission process after the completion of one semester or one quarter of work. Students who are enrolled in a collegiate program for the first time and wish to transfer upon completion of their first term may do so if they meet the University's admission requirements for beginning freshmen. Admission may also be granted one year in advance for selected programs to students who are in their first term of a collegiate program provided they qualify for admission as beginning freshmen. Admission granted to a student on partial or incomplete records is granted with the condition that the student will have maintained an overall "C" average and be eligible to continue at the last school attended. Students whose final transcripts indicate a grade point average or scholastic standing less than that required for unconditional admission will have their initial admission withdrawn.

Students who have graduated with an associate degree in a baccalaureate-oriented program from a two-year institution may enter Southern Illinois University 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.



#### 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 FOR STUDENTS ENTERING SCHOOL FALL 1985

Admission 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.
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.

#### ADMISSION REQUIREMENTS FOR STUDENTS ENTERING SCHOOL FALL 1987

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

1. A minimum of 30 semester hours of completed work.
2. An overall grade point average of at least 2.50 (4.0 scale).
3. Completion of GE-D 101 and GE-D 117, 118, or 119, and one additional English course (GE-C or English department) with a grade of 'C' or better.
4. An ACT score of 20 or SAT of 840. Conditional admission will be granted to students who do not meet ACT or SAT standards on the basis of the following: completion with a minimum grade of 'C' since entering 9th grade including work taken in college of:
  - a. four years of English and communication skills. Each three semester hour college composition or writing course equates to one year of high school English.
  - b. two years of mathematics sufficient to include the course content of Algebra I. Computer science courses may not be used to satisfy any part of this requirement.
  - c. two years of science. Courses from either the physical or biological sciences will be accepted toward this requirement.
  - d. two years of social studies.
5. Three letters of recommendation from college or university faculty (transfer students may bring letters of recommendation from school(s) previously attended).

Applications must be submitted in person and must be accompanied by verification that all prerequisites 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

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

- A. A student may be admitted to one of the engineering programs unconditionally if he/she fulfills all of the University admission requirements, has an ACT composite score of 23 or greater, and ranks in the upper half of his/her high school graduating class.
- B. Students with an ACT composite score between 20 and 23 must rank in the upper 25% of their graduating class.
- C. In addition to A or B above, all incoming freshmen are required to have completed:  
3 years of English (4 years are recommended)  
3½ years of Mathematics
  - a. 2 years of Algebra
  - b. 1 year of Geometry
  - c. ½ year of Trigonometry2 years of Science (1 year of Chemistry and 1 year of Physics are recommended)
- D. Students who do not fulfill the above admission criteria (A,B,C) will be placed in a "Pre-Engineering" classification as described under the heading "Pre-Engineering." Students who satisfy items A and B but do not satisfy item C are automatically placed in the normal "Engineering" category upon completion of the C requirement. Students not fulfilling A, B and C may also be admitted to a non-engineering program and later apply for transfer into one of the engineering programs following completion of the 26 semester hour requirement as described under the heading "Pre-Engineering."
- E. Students with ACT composite scores below 20 are not admissible to any of the engineering programs except under very unusual circumstances and on an individual basis.

### Admission to Engineering (Transfer Students)

- A. First-time transfer students (from another university, a community college or another SIUC academic unit) must have an overall grade point average of at least 2.4\* and at least 24 semester hours of transfer credit. Students without 26 semester hours of transfer credit will fall under freshmen admission requirements.
- B. First-time transfer students with a grade point average between 2.0 and 2.4\* and who are interested in transferring into one of the engineering programs will be admitted to Pre-Engineering. Transfer students with a grade point average between 2.0 and 2.4\* may in special cases be accepted by the department but only upon an individual basis depending upon the ability of the department to accommodate the student demand.
- C. No student whose grade point average is below 2.0 will be admitted to Engineering or Pre-Engineering.

### Pre-Engineering

All Pre-Engineering students (freshmen and transfers) will be transferred out of the Pre-Engineering classification following completion of at least 26 semester hours at SIUC.

Pre-Engineering students will be transferred to an engineering program if they have maintained an overall SIUC grade point average of 2.4\* or greater and if 12 of their 26 hours have been in engineering or engineering related courses such as chemistry, mathematics, physics or geology courses which are required for graduation in engineering at SIUC. Pre-Engineering students who do not have a 2.4\* SIUC average after 26 semester hours will be transferred to Undergraduate Academic Services or the student may elect to seek transfer into another major or academic unit. Such students will be eligible for readmission consideration once they have attained an overall grade point average of 2.4\*.

Students classified as Pre-Engineering are not eligible to register for 300 or 400 level courses offered in any of the engineering departments. The Pre-Engineering classification is only for first-time freshmen or transfer students who do not meet admission conditions stated above.

### Admission to Technology

Engineering Technology and Industrial Technology students are covered by the present University Admission Policy which requires freshmen to meet certain criteria and which requires transfer students to have a transfer grade point average of 2.0 or above.

### International Students

International students must meet admission requirements comparable to those of native students. While admission credentials such as ACT scores and class rank are not generally submitted by international students, students do submit credentials which reflect their achievements in subject areas such as English, mathematics and science. Therefore, beginning freshmen and transfer students with less than 26 semester hours will be required to submit records which reflect above average achievements in these disciplines in order to be admitted to an engineering program. Transfer students who have earned 26 semester hours or more of transfer credit will be required to have a 2.4 or comparable grade point average. International students will be required to comply with the retention policy of the College of Engineering and Technology.

Students who meet minimum University admission requirements but do not meet those requirements for entrance to an engineering program will be granted 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.

### SPECIAL NOTE

- \* For a period of time, particular Engineering departments may establish a transfer grade point average greater than 2.4. Those students seeking admission into Electrical Engineering at this time should contact the College Advisement Office to determine the transfer grade point average for entry into this program.

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

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

For engineering majors, see page 16, for College of Business and Administration majors, see page 50.

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. Sponsoring agencies which enroll international students will be charged an administrative fee of \$100.00 per student per semester.

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

#### ADMISSION 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 SIUC Division of Continuing Education directly, at 618-536-7751.

## HOUSING INFORMATION

### REGULATIONS

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

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

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

### UNIVERSITY FACILITIES FOR SINGLE UNDERGRADUATES

#### BRUSH TOWERS

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

#### UNIVERSITY PARK

The University Park residential area, located on the southeast edge of the SIUC campus consists of one seventeen story residence hall (Neely Hall-male, female, co-ed), and three four-story triad buildings (Allen, Boomer, and Wright Halls-male, female, coed). 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 SIUC Airport since the bus service departs from this location). All buildings are air-conditioned and a computer lab is located in the commons building.

#### THOMPSON POINT

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

CONTRACT COSTS - 1987-88 - All Areas      \$1,312/Semester      \$2,624/Academic Year  
There is an additional \$12.00/year housing activity fee.

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

### UNIVERSITY FACILITIES FOR MARRIED STUDENTS

#### SOUTHERN HILLS

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

#### EVERGREEN TERRACE

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

### MARRIED STUDENT HOUSING COST, 1987-88

|                           |             |
|---------------------------|-------------|
| Efficiency apartments     | \$239/month |
| Furnished one bedroom     | \$259/month |
| Furnished two bedroom     | \$277/month |
| Unfurnished two bedroom   | \$300/month |
| Unfurnished three bedroom | \$325/month |

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

### OFF-CAMPUS FACILITIES

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

## GENERAL HOUSING INFORMATION

**APPLICATION FOR HOUSING:** An application for University Housing for single students is included with the application for admission. Admitted students for whom there is no housing application on file will automatically receive information and an application for housing about three weeks after admission. Priority for University Housing is determined by the date SIUC receives the completed housing application. Students are not eligible to receive a housing contract until they are officially admitted. Early application (even during the junior year) is encouraged.

**TERM OF CONTRACT:** University housing contracts are written for the Fall and Spring semesters and remain in effect for these two semesters. Summer contracts are issued separately. Students who desire housing during both the summer and the fall should submit two separate housing applications.

**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 full-time dietitian is available to assist students with special dietary needs.

**SPECIAL INTEREST GROUPS:** Students may request to be assigned to areas where their special interest can be accommodated, such as 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. Coed housing in the Triads is by floor.

**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. The University Park Triads have several showers and restrooms centrally located on each floor for easy access by residents.

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



## REGISTRATION AND ADVISEMENT

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

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

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

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

### ADVISEMENT

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

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

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

### OFF-CAMPUS ADVISEMENT AND REGISTRATION

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

### PROCEDURES

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

ACADEMIC UNIT  
ADVISEMENT CENTERS

Area code (618)

|  |          |
|--|----------|
| Agriculture  | 453-3080 |
| Business and Administration                          | 536-4431 |
| Communications and Fine Arts                         |          |
| Art and Design                                       | 453-4315 |
| Cinema and Photography                               | 453-2365 |
| Communication Disorders and Sciences                 | 453-4301 |
| Journalism   | 536-3361 |
| Music  | 536-7505 |
| Radio and Television                                 | 536-7555 |
| Speech Communication                                 | 453-2291 |
| Theater  | 453-5741 |
| Education  | 453-2354 |
| Engineering and Technology                           | 536-2466 |
| Human Resources                                      | 536-2378 |
| Liberal Arts   | 453-3380 |
| Science  | 536-5537 |
| Undergraduate Academic Services                      | 453-4351 |
| Pre-Major  |          |
| Pre-Nursing  |          |
| Special Admissions Program                           |          |
| School of Technical Careers                          | 536-6682 |
| Division of Advanced Technical Studies               |          |
| Advanced Technical Studies, Aviation Management      |          |
| Electronics Management, Health Care Management       |          |
| Division of Allied Health and Public Service         | 536-6682 |
| Law Enforcement                                      |          |
| Division of Applied Technologies                     | 985-4110 |
| Automotive Technology, Construction Technology       |          |
| Tool and Manufacturing Technology                    |          |
| Division of Aviation Technologies                    |          |
| Avionics Technology, Aviation Maintenance Technology | 536-3371 |
| Aviation Flight                                      | 529-2681 |
| Division of Graphic Communications                   | 536-6682 |
| Architectural Technology                             |          |
| Computer Information Processing                      |          |
| Electronics Technology                               |          |
| Photographic Production Technology                   |          |
| Secretarial and Office Specialties                   |          |
| Consumer Economics and Family Management             | 536-6682 |
| Interior Design                                      | 536-6682 |

\*\* Students in Allied Health Career Specialties, Commercial Graphics-Design, Dental Hygiene, Dental Technology, Physical Therapist Assistant, Mortuary Science and Funeral Service, Radiologic Technology, and Respiratory Therapy are contacted by their program coordinators concerning Advisement and Registration.

PRE-ADVISEMENT MATH TESTING

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

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

## COSTS

### TUITION AND FEES

Tuition and fees charged students are established by the Board of Trustees and are subject to change whenever conditions necessitate. All assessments are on a per-hour basis, with 12 hours considered full time. The following fee schedule is for the 1987 Fall Semester.

#### ON-CAMPUS UNDERGRADUATE FEE SCHEDULES

| Semester<br>Hours<br>Enrolled | Illinois Residents |                 |          | Non-Illinois Residents |                 |          |
|-------------------------------|--------------------|-----------------|----------|------------------------|-----------------|----------|
|                               | Tuition            | Student<br>Fees | Total    | Tuition                | Student<br>Fees | Total    |
| 1                             | \$ 46.35           | \$104.56        | \$150.91 | \$139.05               | \$104.56        | \$243.61 |
| 2                             | 92.70              | 119.81          | 212.57   | 278.10                 | 119.87          | 397.97   |
| 3                             | 139.05             | 135.18          | 274.23   | 417.15                 | 135.18          | 552.33   |
| 4                             | 185.40             | 150.48          | 335.88   | 556.20                 | 150.48          | 706.68   |
| 5                             | 231.75             | 165.79          | 397.54   | 695.25                 | 165.79          | 861.04   |
| 6                             | 278.10             | 181.10          | 459.20   | 834.30                 | 181.10          | 1015.40  |
| 7                             | 324.45             | 196.41          | 520.86   | 973.35                 | 196.41          | 1169.76  |
| 8                             | 370.80             | 211.72          | 582.52   | 1112.40                | 211.72          | 1324.12  |
| 9                             | 417.15             | 227.02          | 644.17   | 1251.45                | 227.02          | 1478.47  |
| 10                            | 463.50             | 242.34          | 705.84   | 1390.50                | 242.34          | 1632.84  |
| 11                            | 509.85             | 257.64          | 767.49   | 1529.55                | 257.64          | 1787.19  |
| 12+                           | 556.20             | 272.95          | 829.15   | 1668.60                | 272.95          | 1941.55  |

All students will pay the full Student Medical Benefit Fee of \$85.00 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 \$1,658.30 per year for tuition and fees (fall and spring semesters). Full-time out-of-state (non-residents) students will pay \$3,883.10 per year for tuition and fees.

Total University Charges: Full-time Illinois residents can expect to pay up to \$2,636.00 per year in housing costs bringing total University charges to approximately \$4,294.30 per year for room and board, tuition and fees. Full-time out-of-state students can expect to pay up to \$2,636.00 per year for housing bringing total University charges to approximately \$6,519.10 per year for tuition and fees, room and board.

Textbooks: Students must purchase all textbooks (estimated at \$375 per year).

Personal Expenses: Includes transportation to and from home, entertainment and personal items estimated at \$1,705.70 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 at Carbondale.

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 SIUC. 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 SIUC.

SIUC distributed nearly \$62 million in financial assistance last year to approximately 80% of all students. Over 5,000 student workers were employed by the University.

### MAJOR FINANCIAL AID PROGRAMS

SIUC participates in the major federal, state, and institutionally-funded programs including the Pell Grant, ISSC Monetary Award, Guaranteed Student Loan, Perkins Loan (formerly 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 including a brief description of each program, the application procedures, and the corresponding deadlines. A copy of this brochure is available upon request.

Grants. The major federal grant programs include the Pell Grant and the Supplemental Educational Opportunity Grant. The largest state grant program is the Illinois State Scholarship Commission Monetary Award Program. All of these grants are based on financial need as determined by the ACT/FFS.

Scholarships. SIUC distributes several scholarships based on academic achievement to new freshmen and Illinois community college transfer students (associate degree graduates only). These scholarships include the SIUC 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 New Student Admission Services.

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

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

Loans. The largest loan programs include the Guaranteed Student Loan (GSL), the Parent Loan for Undergraduate Students (PLUS), the Supplemental Loan for Students (SLS) and the Perkins Loan (formerly National Direct Student Loan). To apply for a Perkins Loan or a GSL, students must complete and mail the 1988-89 ACT/FFS. Both the Perkins Loan and the GSL are based on financial need. Since Perkins Loan funds are limited, students should mail the ACT/FFS before April 1, 1988. The Perkins Loan is borrowed through the school while the GSL is borrowed through the lending institution. To apply for the PLUS or the SLS, students should contact the Office of Student Work and Financial Assistance to determine the application procedure to follow.

Employment. To apply for an on-campus student work job, students should have a processed 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 interest them. Referrals will be given to students to interview with prospective on-campus employers. In addition, a representative is available to give referrals for part-time off-campus jobs. Approximately 3,000 students work off-campus during an academic year.

## APPLICATION FOR FINANCIAL ASSISTANCE FOR THE 1988-89 ACADEMIC YEAR

To determine financial need, it is necessary for students with their parents to complete and submit the 1988-89 ACT/Family Financial Statement (ACT/FFS). To have SIUC receive a copy of the Need Analysis, students must enclose the ACT processing fee and enter the SIUC school code (1144). The 1988-89 ACT/FFS allows students to apply for the major programs coordinated through the Office of Student Work and Financial Assistance. Students should complete and mail the 1988-89 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 1988-89 ACT/FFS before April 1, 1988. 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 each college or university attended previously. Even though students may not have received financial assistance prior to attending SIUC, federal regulations mandate that our office have that verification. No aid can 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 a Guaranteed Student Loan, Perkins Loan (formerly National Direct Student Loan), Supplemental Educational Opportunity Grant or student work must reapply for those awards by submitting the 1988-89 ACT/FFS. Students who receive a Supplemental Loan for Students (SLS) or a Parent Loan for Undergraduate Students (PLUS) should contact Student Work and Financial Assistance to determine loan eligibility and application procedures. Transfer students who receive the 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 SIUC.

Financial Aid Timetable. After mailing the 1988-89 ACT/FFS, students should expect to receive the following responses:

1. Student Financial Aid Report (SFAR). Approximately 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 who will forward the information to the Illinois State Scholarship Commission. ACT will also mail the information to the institutions listed on the FFS.
2. Student Aid Report (SAR). Approximately four 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 whether students qualify for the Pell Grant. Students should review the SAR for errors and, if necessary, make corrections on Part 2 of the SAR and resubmit to the Pell Grant Program for recalculation. If eligible, students should submit all pages of the SAR, to Student Work and Financial Assistance. Student Work and Financial Assistance cannot process a Pell Grant Award until all pages of the SAR are submitted.
3. Illinois State Scholarship Commission Monetary Award Letter (ISSC). Approximately six weeks after mailing the ACT/FFS, students (Illinois residents only) will receive a letter from the Illinois State Scholarship Commission which will indicate whether students are eligible to receive the ISSC Monetary Award. Students may retain the letter for their own records.
4. SIUC 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 who qualify for Campus-Based Aid and/or a Guaranteed Student Loan. This letter is an offer of assistance and must be signed and returned to Student Work and Financial Assistance by the date indicated. (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.

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

PLEASE NOTE: At the time of this publication's printing, final rules and regulations for the 1988-89 academic school year were pending. Therefore, students should contact Student Work and Financial Assistance for the most recent information.



## STUDENT SERVICES

Career Development Center, 618-536-7528; University 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 Analogry 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.

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

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

The Office for Non-Traditional Student Services serves a variety of students including persons who have been away from formal education for a long period of time, persons married, divorced, widowed, persons interested in re-training for new careers, and part-time students, commuters, and veterans. A variety of services are available to assist such students in their transition and enrollment at SIUC.

### 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 SIUC campus is highly accessible, and all programs, services, and activities are available to disabled students. The disabled individual applies for admission in the same manner as any other applicant. The nature or severity of disability have no bearing on the admission determination. Interested disabled persons are strongly encouraged to formally apply for admission as far as possible in advance of the semester starting date in order that all necessary support services, financial assistance, special equipment, and housing arrangements may be arranged in advance.

### Clinical Center Achieve Program, 618-453-2595

The Clinical Center Achieve Program is an academic support program for learning disabled students enrolled at SIUC. The program is self-supportive and participation is voluntary. Students in the Achieve Program are completely mainstreamed into the regular college curricula. 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 SIUC, Carbondale, IL 62901.

|                   |                                       |
|-------------------|---------------------------------------|
| *Application fee: | \$ 50.00 (one time fee/nonrefundable) |
| *Diagnostic fee:  | \$ 500.00 "                           |
|                   | \$ 550.00                             |

|                             |                                  |
|-----------------------------|----------------------------------|
| *Fees for academic support: | \$1500.00 (1987 fall semester)   |
|                             | \$1500.00 (1988 spring semester) |
|                             | \$3000.00                        |

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

\*Figures are based on the 1987-88 academic year and subject to change.

#### Center for English as a Second Language, 618-536-3385

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 SIUC. 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 SIUC, and in becoming acclimated to college life.

SIUC Parents Association. Open to all parents of SIUC 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 SIUC.

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 SIUC Greek System promotes leadership, scholarship, and service, offering students an opportunity to enhance their University experience. Rush, or membership recruitment, is sponsored at the beginning of fall and spring semesters, as well as at designated times throughout the year.

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 SIUC students, faculty, and staff members. The center, which is staffed by qualified professionals, is licensed by the Illinois Department of Children and Family Services 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 at Carbondale continues to boast one of the country's best all-around sports programs for men and women. The Salukis compete within Division I of the National Collegiate Athletic Association (NCAA) in all but one sport. In football, SIUC holds Division I-AA status.

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

As recent as 1986, SIUC's gymnastics team finished seventh in the NCAA national championship meet, an event past teams have won four times, while Saluki swimmers were 17th, the 25th time in the past 28 years that SIUC has been among the top 20 teams at the NCAA finals.

Also in 1986, SIUC's baseball team won the Missouri Valley Conference championship but failed in its attempt to earn a return ticket to the College World Series where the Salukis have made five previous trips.

In addition, SIUC has fine cross country, golf and tennis programs which challenge annually for league honors in the Missouri Valley Conference.

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

SIUC competes in women's sports as part of the Gateway Collegiate Athletic Conference (GCAC) which was founded in July, 1982. The GCAC is a ten-school league that features five Illinois schools--Bradley, Eastern Illinois, Illinois State, Western Illinois and SIUC--as well as Wichita State, Southwest Missouri State, Indiana State, Northern Iowa 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. Gateway champions in basketball and volleyball continue to receive automatic berths to NCAA Division I Nationals.

In 1986, SIUC won the Commissioner's Trophy which is presented annually by the Gateway Conference to the member school with the highest finishes in all nine league championships during the school year.

With a fast start in Gateway competition during 1986-87, the Saluki women appear to have a good chance to hold onto the cup for another year. SIUC has already claimed Gateway titles in basketball, swimming and diving, and indoor track, and is favored to add conference crowns in golf and outdoor track.

In basketball, the Saluki women compiled a 28-3 record and went unbeaten (20-0) in Gateway play to again capture the conference championship and qualify for the NCAA tournament. SIUC upset 14th-ranked LSU on its homecourt in post-season and wound up No. 13 nationally in the "USA Today" poll. Bridgett Bonds was named the Gateway Conference Player of the Year and to the Kodak All-District IV Team as the Saluki Women enjoyed their fifth straight 20-win season.

In swimming, SIUC captured its fourth Gateway crown in the past five years and capped the season with an 18th place showing at the NCAA Nationals where freshman Lisa Reinke clocked two school records and earned All-American honors.

In indoor track, senior Carlon Blackman was the difference as SIUC won its first Gateway title, setting seven school records and three league marks. Blackman took first in two events and was part of the two winning relays to be named the meet MVP before barely missing out on All-American accolades at NCAA Nationals.

In volleyball, SIUC fashioned its third straight 20-win season and upset 17th-ranked LSU to win its own Southern Classic. Senior Pat Nicholson was selected All-Conference and Coach Debbie Hunter was named Volleyball Commissioner for the 1987 US Olympic Festival.

In cross country, Vivian Sinou won six of ten meets, setting four course records while moving into the No. 1 spot on SIUC's all-time list. In golf, junior Tina Kozlowski led the Gateway in scoring (77.9 strokes for 16 rounds) and finished second in a 94-player field at the Northern Intercollegiates with a career low 72.

In tennis, SIUC had a 22-11 record through mid-April and freshman Beth Boardman had a 42-6 worksheet in No. 3 singles.

In the classroom, SIUC's female athletes also did themselves proud. Program participants in nine sports maintained a cumulative GPA of 2.9. Some 24 athletes made the Dean's List and seven of those, including three in basketball and tennis, had perfect (4.0) grade point averages. The Gateway Conference cited seventeen student athletes for academic excellence.



Coaches (Men's)

|                |               |
|----------------|---------------|
| Baseball:      | Richard Jones |
| Basketball:    | Rich Herrin   |
| Cross-Country: | Bill Cornell  |
| Football:      | Ray Dorr      |
| Golf:          | Lew Hartzog   |
| Gymnastics:    | Bill Meade    |
| Swimming:      | Doug Ingram   |
| Tennis:        | Dick LeFevre  |
| Track:         | Bill Cornell  |

Coaches (Women's)

|                    |                    |
|--------------------|--------------------|
| Basketball:        | Cindy Scott        |
| Cross Country:     | Don DeNoon         |
| Field Hockey:      | Julee Illner       |
| Golf:              | Diane Daugherty    |
| Softball:          | Kay Brechtelsbauer |
| Swimming & Diving: | Bailey Weathers    |
| Tennis:            | Judy Auld          |
| Track & Field:     | Don DeNoon         |
| Volleyball:        | Debbie Hunter      |

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

Intercollegiate Athletics (Men)

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

Intercollegiate Athletics (Women)

Telephone: 618-536-5566  
Location: Davies Gym



## MOTOR VEHICLES AND BICYCLES

### REGISTRATION

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

### ELIGIBILITY

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

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

### APPLICATION AND FEE

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

Yellow registration decals will be issued for \$2.00 upon proper application.

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

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

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

For additional information or parking brochure, contact:

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

## UNIVERSITY RECOGNITION OF HIGH SCHOLASTIC ACHIEVEMENT

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

University Honors Program. The University Honors Program is explained elsewhere in this chapter. 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
10. European History: History 200 (3 sem. hours)
11. American Government and Politics: GE-B 212 (3 sem. hours)
12. Comparative Politics: GE-B 250 (3 sem. hours)

#### 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 at Carbondale.

#### CREDIT FOR WORK EXPERIENCE

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



## 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 University 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 at 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 SIUC 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. An individually designed program can be 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, Advanced Technical Studies, 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.

#### 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

Clothing and Textiles  
Early Childhood  
Vocational Education Studies

##### 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

Advanced Technical Studies  
Aviation Management  
Fire Science Management (off-campus only)  
Health Care Management

Electronics Management  
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 SIUC. SIUC 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 New Student Admission Services. Contact: Capstone Program, New Student Admission Services, Southern Illinois University at Carbondale, Carbondale, IL 62901-4710. Telephone: (618) 536-4405 or toll free in Illinois (800) 642-3531.

#### INTERNSHIPS IN WASHINGTON

Eligible students from Southern Illinois University 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.

International Student Exchange Program: This exchange program is multilateral and involves one-year placement at 63 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 SIUC and most do not require a specialized foreign language background. Additional information may be obtained at the Office of International Education.

SIUC 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, Shenyang, 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 from International Programs and Services.

SIUC 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 or b) a department or college's travel/study course where offered. Additional information is available from the travel/study coordinator, International Programs and Services.

SIUC 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 International Programs and Services.

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 2.0 'C' average is required for the work taken at this University.

In computing students' grade point averages all grades of A, B, C, D, 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 the 1971 spring quarter, the policy contained in the 1970-71 Undergraduate Catalog is followed.

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

### SCHOLASTIC PROBATION AND SUSPENSION SYSTEM

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

#### SCHOLASTIC PROBATION

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

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

#### SCHOLASTIC SUSPENSION

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

## BASIC GRADUATION REQUIREMENTS

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

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

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

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

## UNIT OF CREDIT

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

## CLASS STANDING

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

## ACADEMIC LOAD

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

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

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



## GENERAL EDUCATION FOR THE TRANSFER STUDENT

A transfer student with an associate degree in a baccalaureate oriented program from an accredited Illinois two-year institution will be accepted as meeting all of the General Education requirements of Southern Illinois University at Carbondale. Associate degrees earned at other than Illinois two year institutions will be reviewed by the Office of Admissions and Records. If the degree is determined to 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 SIUC must meet the General Education requirements. These requirements need not be completed prior to transfer but must be fulfilled to meet the general graduation requirements.

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

### 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. GE-D 101 must be completed with a grade of C. GE-D 102 may be completed instead of GE-D 117, 118, or 119.

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:<br>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 SIUC.

#### 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 SIUC Undergraduate Catalog to determine various activities.

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

#### Miscellaneous

The preceding General Education requirements are not applicable to community college transfer students who have received an associate degree within 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.

| 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 117-3                      | Botany 200   |
| GE-A 202-3                      | Physics 203b or 205b   |
| GE-A 240-3                      | Biology 307  |
| GE-A 330-3                      | Military Credit for Meteorology  |
| GE-A unassigned-3,6,9           | Three, six or nine 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-3,6,9           | Three, six or nine 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 Elective Area              | A student with a full year (or its equivalent) of study in a single foreign language may substitute up to (4) hours in General Education Area (C).                     |
| GE-C unassigned-3,6,9           | Three, six or nine semester hours from University Honors 251c and/or 351c  |
| GE-A/B/C unassigned-3           | Three hours for University Honors 251a/b/c or 351a/b/c   |
| 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: Management 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          | One to two 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 at Carbondale. A student should not expect to receive credit if the transfer work was taken at a school which is not regionally accredited and whose credit is not accepted by the reporting institution in the state.

Completion of an associate degree in a baccalaureate oriented program in an accredited Illinois two-year institution provides that the student will: (a) be accepted with junior standing and (b) be considered to have completed the General Education requirements. Associate degrees earned at other than Illinois two-year institutions will be reviewed by the Office of Admissions and Records. If the degree is determined to 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 Undergraduate Academic Services office. It is the student's responsibility to see that these items are submitted. If credit for a General CLEP exam (except English) appears in another college's transcript, credit will be evaluated at SIUC. For the General English CLEP credit to be evaluated, transfer students must submit official scores of the General Examination of the College Level Examination Program (CLEP). Also, credit possibilities based upon formal service-school training programs, USAFI courses, and military experience will be evaluated upon submitting required papers.

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

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

### Status of Institution

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

### Non-Regionally Accredited

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

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

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

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



## Foreign Schools

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

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

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

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

## 'D' Work

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

## Military Experience

Credit for military experience may be granted as follows:

Service of one year or more 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 SIUC GPA; rather, a transfer's GPA is based solely on work taken at this University.

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## PRE-PROFESSIONAL PROGRAMS

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

|  |                                    |
|--|------------------------------------|
| Dentistry (3 or 4 years)                   | Pharmacy (1 or 2 years)            |
| Law (3 or 4 years)                         | Physical Therapy (2 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 SIUC plus one or more years of work in a professional school. During the three years at SIUC, the students must complete all requirements (other than elective hours) for the particular bachelor's degrees they are seeking.

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

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

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

\*Recommended program not listed.

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## UNDERGRADUATE ACADEMIC SERVICES

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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.

### 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 Associate Director for Advisement and Special Programs, Undergraduate Academic Services.

### University Studies Program

The University Studies 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 Program may pick up the guidelines at Woody Hall C-117. After ascertaining eligibility for the program, the student should then consult with the University Studies advisor or the Associate Director for Advisement and Special Programs.

### 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 Associate Director of Support Programs, Undergraduate Academic Services.

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## SCHOOL OF AGRICULTURE

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

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

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

### 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 in the Agriculture Building. Those for food and nutrition are in Quigley Hall. Additional SIUC-owned facilities 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 special centers devoted to each of six species of livestock.

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

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

**GRADUATE PROGRAMS:** The School of Agriculture has programs leading toward the Master of Science degree and a joint program with the Botany Department leading to the Ph.D. degree. Many of the programs are mentioned in this section, but there are additional options, available only at the graduate level. For more information, consult with the 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 Agriculture Fraternity. Departmental: Agassadors; Agricultural Computer Club; Agricultural Mechanization Club; Agribusiness Economics Club; Agricultural Communicators of Tomorrow; Agriculture Student Advisory Council; Block and Bridle Club; Collegiate FFA; Forestry Club; Horse Club; Plant and Soil Science Club; Pre-Veterinary Science Club; Society of American Foresters Club; Dairy, Livestock, and Poultry Judging Teams.

**TRANSFER STUDENTS:** If agriculture is offered for transfer credit at a regionally accredited associate degree granting college, introductory courses in the various fields may be accepted at SIUC in lieu of equivalent courses. For transfer students wishing to pursue a concentration in one of the agricultural, food or forestry areas, courses prior to entering SIUC should include physical and biological sciences, social sciences, and humanities. In addition, a course in speech and appropriate sequences in English composition and 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, which is explained in another section of this handbook.

### FOR FURTHER INFORMATION:

|                             |                                  |
|-----------------------------|----------------------------------|
| Assoc. Dean for Instruction | New Student Admission Services   |
| School of Agriculture       | Phone (618) 536-4405 (direct)    |
| Phone (618) 453-2469        | Phone (800) 642-3531 (toll free) |

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## COLLEGE OF BUSINESS AND ADMINISTRATION

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

**ACCREDITATION:** American Assembly of Collegiate Schools of Business (AACSB), and North Central Association of Colleges and 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 continue enrollment in a major offered by the College of Business and Administration, students must maintain a 2.2 Southern Illinois University cumulative grade point average. Students must also complete the following nine courses with an overall C average, before attaining junior status (56 semester hours). It is also necessary for students to have completed with a grade of C or better seven of these nine courses. The nine retention courses or the equivalencies are GE-D 101; GE-B 202; Mathematics 139 and 140; Economics 208 and 214; Accounting 220 and 230; and Computer Science 212 or Computer Information Processing 217. Students who have completed 42 semester hours or more without completing at least six of the prescribed nine courses will be subject to termination from the college.

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

| 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 <sup>2</sup>        | 3.0            |
| Legal and Social Environment of Business  | 3.0            |

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

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

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



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.

**ADMISSION POLICY:** The following admission policy for the College of Business and Administration took effect Summer, 1986, and applies to all students who enroll at Southern Illinois University after May, 1986.

**Freshmen:** Beginning freshmen must rank in the top ten percent of their high school graduating class and have an ACT standard composite score of 21 or rank in the top half of their high school graduating class and have an ACT standard composite score of at least 24 to be eligible for immediate admissions to majors offered by the College of Business and Administration. New freshmen who do not meet these requirements but do fulfill regular Southern Illinois University admissions requirements will be admitted to the university with a pre-business major classification.

**Transfer Students:** Transfer students who have completed fewer than 26 semester hours must meet the admissions requirements of beginning freshmen and must have earned a collegiate grade point average of 3.0 (4.0 scale) to be admitted directly to a major in the College of Business and Administration. Students who have completed more than 26 hours, but fewer than 56 hours must have earned a grade point average of 3.0 to be admitted directly to a major in the College of Business and Administration. Students who have completed 56 hours or more must have earned an overall grade point average of 2.2 and completed all nine of the College of Business and Administrations retention courses with an average of 2.0 in those courses to be admitted to a major in the College of Business and Administration. It is necessary also that seven of the retention courses be completed with a grade of C or better. (See College of Business Retention Policy on previous page.) Transfer students who do not meet these requirements, but do meet regular admission requirements will be admitted to the University with a pre-business classification.

A student's grade point average is determined by calculating all collegiate grades earned including repeated courses.

**Southern Illinois University Students:** Students who are currently enrolled or were previously enrolled at Southern Illinois University in a major outside the College of Business and Administration may request admission to a business program. They may be admitted to degree programs in business if they meet the requirements for beginning freshmen or transfer students. Students who do not meet new freshmen or transfer requirements may be granted admission with a pre-business classification provided they have an overall 2.0 average at Southern Illinois University.

**Pre-Business Classification:** Those beginning freshmen and transfer students admitted to the University with a pre-business classification may request admission to a College of Business and Administration degree program when:

1. They have earned an overall average of 2.2;
2. They have completed at least 56 semester hours;
3. They have completed the college of Business and Administration's nine retention courses with an average of 2.0 in those courses. Seven of the courses must be completed with a grade of 'C' or better.

Pre-business students enrolled at Southern Illinois University requesting admission to a degree program must complete an application for admission to the College of Business and Administration major. Students applying for spring must apply by October 1 of the preceding year, for summer by March 1 preceding the summer, and for fall by March 1 preceding the fall.

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

**COLLEGIATE WARNING:** Students who do not achieve an accumulative 2.20 SIUC grade point average in any semester or who fail to meet the retention course requirements as described above are subject to collegiate warning. Students who are on collegiate warning and do not earn a 2.20 SIUC grade point average in a subsequent semester will be placed on a status of collegiate dismissal.

A student who has been placed on collegiate dismissal will be transferred to Undergraduate Academic Services or may seek transfer to another University program if the student has an overall SIUC grade point average of 2.0. Students who are placed on collegiate dismissal and have less than an overall 2.0 University grade point average for work completed at the University but have not been suspended from the University will be placed in Undergraduate Academic Services.

**FIRST COLLEGIATE DISMISSAL:** The student on collegiate dismissal may not be readmitted to the college until the student has interrupted education in the college for a minimum of two semesters and shows evidence that the program of study can be successfully completed. For this purpose, summer session will be considered a semester.

After the two term interruption, the student may apply to the college Scholastic Committee for readmission. In this petition, the student should supply written evidence to include: 1) any extraordinary circumstances that contributed to the collegiate dismissal; 2) why the student thinks there is a reasonable chance to succeed in studies; and 3) what the student was doing during the interruption period that will contribute to further success.

Insufficient documentation to justify the request will result in denial of the request for that semester.

Business students on collegiate dismissal but eligible to continue at the University may be readmitted in certain cases upon approval of the Scholastic Committee without the two semester interruption.

SECOND AND SUBSEQUENT DISMISSALS: A student on collegiate dismissal for a second or subsequent time may apply for readmission after an interval of no less than two calendar years. There are no exceptions. Students requesting readmission who have been on dismissal two or more times must be referred to the Scholastic Committee as described above.

ADMISSION TO BUSINESS AND ADMINISTRATION CLASSES: Students who are on collegiate dismissal but eligible to continue at Southern Illinois University at Carbondale can take only the following business courses while on collegiate dismissal: ACCT 220, 230, and ECON 208 and 214. Students are not restricted from taking other required non-business courses.

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## COLLEGE OF COMMUNICATIONS AND FINE ARTS

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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 under the departmental description.

Three service units are housed in the College:

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

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

The University Museum.

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

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

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

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

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

Southern Illinois University at Carbondale  
Carbondale, Illinois 62901

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## COLLEGE OF EDUCATION

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

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

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

**ACCREDITATION:** North Central Association of Colleges and 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 SIUC. Prospective students are encouraged to check for articulation of these courses prior to enrollment in similar community college courses.

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

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

Admissions Office  
Woody Hall  
Phone 618-453-4381

Southern Illinois University at Carbondale  
Carbondale, Illinois 62901

## SECONDARY EDUCATION

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

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

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

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

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

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

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



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## COLLEGE OF ENGINEERING AND TECHNOLOGY

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

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

**DEGREES OFFERED:**

- Bachelor of Science - 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:** Admission requirements for freshmen, transfer, and international students are under "Admission Policies and Requirements."

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

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

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

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

**FOR FURTHER INFORMATION:** contact Dean, College of Engineering and Technology, telephone 618-453-4321.

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## COLLEGE OF HUMAN RESOURCES

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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.

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## COLLEGE OF LIBERAL ARTS

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

|                                       |                       |                                   |
|---------------------------------------|-----------------------|-----------------------------------|
| African Studies <sup>1</sup>          | English               | Mathematics                       |
| Anthropology                          | Foreign Language and  | Museum Studies <sup>1</sup>       |
| Asian Studies <sup>1</sup>            | International Trade   | Paralegal Studies for             |
| Chinese <sup>1</sup>                  | French                | Legal Assistants                  |
| Classical Civilization <sup>1</sup>   | Geography             | Philosophy                        |
| Classics                              | German                | Psychology                        |
| Comparative Literature <sup>1</sup>   | Greek <sup>1</sup>    | Religious Studies                 |
| Computer Science                      | History               | Russian                           |
| Earth Science <sup>1</sup>            | Japanese <sup>1</sup> | Sociology                         |
| East Asian Civilizations <sup>1</sup> | Latin <sup>1</sup>    | Spanish                           |
| Economics                             | Linguistics           | Speech Communication <sup>2</sup> |
|                                       |                       | Uncommon Languages <sup>1</sup>   |

<sup>1</sup>Minor only.

<sup>2</sup>Liberal 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.

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## COLLEGE OF SCIENCE

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

Biological Sciences  
Botany  
Chemistry  
Geology  
Mathematics

Microbiology  
Physics  
Physiology  
Zoology

A minor in Earth Sciences is also offered.

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

Dentistry  
Medicine  
Optometry  
Osteopathy

Podiatry  
Pharmacy  
Physical Therapy  
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, (b) earning 8 hours of 100-level credit in one language by proficiency examination; (c) completing three years of one language in high school with no grade lower than C.

A student whose native language is not English may use the native language to satisfy part or all of the science foreign language requirement at Southern Illinois University. If the language is presently taught at 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, 109, or 111 or equivalent or Mathematics 140 or b) completing three years of high school mathematics with no grade lower than a 'C' and achieving a score on the University's Mathematics Placement Test which allows the student to enroll directly into Mathematics 150.

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

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

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## SCHOOL OF TECHNICAL CAREERS

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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 aviation programs are located at the Southern Illinois Airport, four miles west of Carbondale. The University provides shuttle bus service to the classes at the Carterville campus and airport.

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

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

### Associate in Applied Science Degree Programs

Allied Health Careers Specialties  
Architectural Technology  
Automotive Technology  
Aviation Flight  
Aviation Maintenance Technology  
Avionics Technology  
Commercial Graphics-Design  
Computer Information Processing  
Construction Technology  
Dental Hygiene  
Dental Technology

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

### Bachelor's Degree Programs

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

### 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). Society of Manufacturing Engineers student chapter.

### Transfer Students

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

The General Education program at 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).

### For further information

Dean  
School of Technical Careers  
Phone 618-536-6682

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## THE GRADUATE SCHOOL

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

The Graduate School offers master's degrees through 60 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 3,600 graduate students is promoted. In addition, the Schools of Law and Medicine provide graduate students with excellent opportunities to work with faculty members and students in those professions.

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

|   |  |
|---|--|
| Accountancy (M.Acc.)                      | 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.)                              | Mathematics                                |
| Behavior Analysis and Therapy             | Microbiology                               |
| Biological Sciences                       | Mining Engineering                         |
| Botany                                    | Music (M.Mus.)                             |
| Business Administration (M.B.A.)          | Occupational Education                     |
| Business Education                        | Philosophy                                 |
| Chemistry                                 | Physical Education                         |
| Cinema and Photography (M.F.A.)           | Physics                                    |
| Communication Disorders and Sciences      | Physiology                                 |
| Community Development                     | Plant and Soil Science                     |
| Computer Science                          | Political Science                          |
| Curriculum and Instruction                | Psychology                                 |
| Economics                                 | Public Affairs (M.P.A.)                    |
| Educational Administration                | Recreation                                 |
| Educational Psychology                    | Rehabilitation Administration and Services |
| Engineering                               | Rehabilitation Counseling                  |
| Civil Engineering and Mechanics           | Social Work                                |
| Electrical Engineering                    | Sociology                                  |
| Mechanical Engineering & Energy Processes | Special Education                          |
| English                                   | Speech Communication                       |
| English as a Foreign Language             | Statistics                                 |
| Foreign Languages & Literatures           | Telecommunications                         |
| French                                    | Theater (M.F.A.)                           |
| German                                    | Zoology                                    |
| 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   | 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                      |
| 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.



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## SCHOOL OF LAW

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

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

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

The law library contains 250,000 volumes--more than in over half the academic law libraries in the country--as well as two computer-assisted research systems (LEXIS and Westlaw).

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

Scott H. Nichols, Director of Admissions  
School of Law  
Southern Illinois University at Carbondale  
Carbondale, Illinois 62901

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

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## SCHOOL OF MEDICINE

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

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

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

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  
at Carbondale  
Carbondale, IL 62901

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

## AEROSPACE STUDIES (AFROTC)

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

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

### General Military Course (GMC)

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

### Professional Officer Course (POC)

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

### Obligations

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

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

**Scholarships:** Air Force ROTC has two types of scholarships available. 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 year of a major Indo-European or Asian language prior to commissioning. The second scholarship is funded by the state of Illinois, and amounts to a tuition waiver. This is available to 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 waiver.

### Veterans Commissioning Program

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

### Special Note to Counselors:

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

ARMY MILITARY SCIENCE  
(Army Reserve Officer Training Corp)

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, and 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 and whether the student is selected for active duty or for Reserve or National Guard duty. All Army Military Science scholarships and advanced course students are paid a tax free subsistence allowance of \$100.00 per month. The advanced course is also open to participating students with the approval of the Professor of Military Science. Participating students receive credit and grades, but are not commissioned and incur no obligation for military service. Participating students are ineligible for scholarships and 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, veterans, students completing the basic course, 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 leadership 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.

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. The Pershing Rifles, a national organization, is open to all University students. The Association of the United States Army is a national organization open to membership of all Army Military Science Cadets and students of the University.

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

The list is intended to be used to assist teachers, counselors, faculty members and students faced with the question: "What does one do with a degree in \_\_\_\_\_?"

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

For additional information, please contact the following placement consultants:

Agriculture  
Business and Administration  
Communications and Fine Arts  
Cooperative Education  
Education  
Engineering and Technology  
Higher Education and Public  
School Administration  
Human Resources  
Liberal Arts  
Science  
School of Technical Careers  
International Placement

Anthony Chavez  
Marilyn DeTomas  
Valerie Brew Parrish  
Anthony Chavez  
Jane Tierney  
Michael Murray  
  
Richard Gray  
Valerie Brew Parrish  
Barbara Costello  
Leslye Ellison  
Frank Klein  
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 students have been assigned, at their request, in other geographical districts as far away as New Jersey and Texas. The student receives valuable work experience, a salary, and three hours of university credit under the internship program. Interns are selected by the Department.

| <u>First Year</u>       |   | <u>Fall</u> | <u>Spring</u> |
|-------------------------|---|-------------|---------------|
| GE-A                    | Science (select) <sup>1</sup>   | 3           | 3             |
| GE-B                    | Social Science (select) <sup>1</sup>  | 3           | -             |
| *GE-B 202               | Introduction to Psychology  | -           | 3             |
| GE-C-3                  | Humanities (select) <sup>1</sup>  | 3           | -             |
| GE-C                    | Humanities (select) <sup>1</sup>  | -           | 3             |
| *GE-D 101               | English Composition   | 3           | -             |
| GE-D 117, 118<br>or 119 | Expository, Technical Report<br>or Creative Writing                                   | -           | 2             |
| ECON 208                | Economic and Business Statistics  | -           | 3             |
| *MATH 139-3             | Finite Mathematics  | 3           | -             |
|                         |   | <u>15</u>   | <u>14</u>     |
| <u>Second Year</u>      |   | <u>Fall</u> | <u>Spring</u> |
| GE-A                    | Science (select) <sup>1</sup>   | -           | 3             |
| *GE-D 152 or<br>153     | Public Speaking or Interpersonal<br>Communication                                     | -           | 3             |
| GE-E-2                  | Human Health & Well Being (select) <sup>1</sup>                                       | 2           | -             |
| *ACCT 220, 230          | Financial, Managerial Accounting  | 3           | 3             |
| *CS 212 or<br>CIP 229   | Intro. to Computer Programming (Pascal) or<br>Computing for Business Admin. (Fortran) | -           | 3             |
| *ECON 214, 215          | Economics, Macro, Micro <sup>2</sup>  | 3           | 3             |
| *MATH 140-4             | Short Course in Calculus  | 4           | -             |
| *MGT 202                | Business Communications   | 3           | -             |
|                         |   | <u>15</u>   | <u>15</u>     |

\*Required course for a major in Accounting.

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

<sup>2</sup>ECON 214 or 215 counts toward 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 and the 40% rule. Furthermore, a 2.00 grade point average is required in SIUC accounting courses for graduation. A 'C' or better is required in all prerequisite accounting courses. This does not apply to Accounting 220, the prerequisite for Accounting 230, for non-accounting majors.

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



ADMINISTRATION OF JUSTICE  
College of Human Resources  
(Bachelor of Science)

Divisional Executive Officer  
Telephone - 618-453-5701  
Faner Building, 4th Floor

The Bachelor of Science degree with a major in Administration of Justice meets the career objectives of students interested in law enforcement, 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 five 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) <sup>1</sup>                                    | 3           | 3             |
| GE-B                | Social Sciences (select) <sup>1</sup>                             | 3           | 3             |
| GE-C                | Humanities (select) <sup>1</sup>                                  | 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) <sup>1</sup>                   | -           | 2             |
| AJ 201 or 290       | Intro to Criminal Justice System or<br>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) <sup>1</sup>                                    | 3           | -             |
| GE-B                | Social Sciences (select) <sup>1</sup>                             | -           | 3             |
| GE-C                | Humanities (select) <sup>1</sup>                                  | -           | 3             |
| GE-D 152 or 153     | Interpersonal Communication or<br>Public Speaking                 | 3           | -             |
| GE-E                | Human Health & Well Being (select) <sup>1</sup>                   | -           | 2             |
| AJ 201 or<br>AJ 290 | Intro to Criminal Justice System or<br>Intro to Criminal Behavior | 3           | -             |
| GE-A,B,C            | Elective (select) <sup>1</sup>                                    | 3           | -             |
| AJ 310              | Intro to Criminal Law   | -           | 3             |
| AJ                  | Electives   | <u>3</u>    | <u>3</u>      |
|                     |   | <u>15</u>   | <u>14</u>     |

\*Required courses for a major in Administration of Justice.

<sup>1</sup> 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 16 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.

### ADVANCED TECHNICAL STUDIES

School of Technical Careers  
(Bachelor of Science)

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

The bachelor of science degree in Advanced Technical Studies builds upon students' previous technical training through a combination of ATS core courses, major requirements, approved major electives and SIUC 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               | -         | 3         |
| GE-E         | Human Health & Well Being (select) | 2         | -         |
| Electives or | Technical Specialization           | 7         | 5         |
|              |                                    | <u>18</u> | <u>17</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> |

#### Career Development Specialization Requirements - 24 hours

Must include at least 15 hours of 300-400 level coursework. 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 Agricultural Economics/Agribusiness curriculum is designed to prepare men and women for attractive careers related to the business and public policy aspects of agriculture. Courses offered include agribusiness management, finance, marketing, prices, policy, farm management, economic development and natural resource management. In order to accomplish the objectives of providing the student with a basic understanding of business-economic decision principles applied to agriculture, the program includes courses from the Department of Economics, College of Business and Administration and the School of Agriculture. To accommodate the various needs of students, there are two options available in the agribusiness economics major: (a) 40 hours in agriculture (The Agriculture Option) which provides a broad training in agriculture and (b) 32 hours in agriculture (The Business-Economics Option) which provides less training in agriculture and more in economics and/or business.

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

| First Year     |   | Fall | Spring |
|----------------|---|------|--------|
| *GE-A 106      | Chemistry for Non-Science Majors                    | -    | 3      |
| *GE-A 115      | Introductory Biology                                | 3    | -      |
| GE-B           | Social Science <sup>1</sup>                         | -    | 3      |
| GE-C           | Humanities <sup>1</sup>                             | -    | 3      |
| *GE-D 101, 118 | English Composition, Technical Report Writing       | 3    | 2      |
| MATH 116       | Finite Mathematics and Algebra <sup>2</sup>         | 5    | -      |
| GE-E           | Human Health and Well Being <sup>1</sup>            | -    | 2      |
| *ABE 204       | Introduction to Agricultural Economics <sup>3</sup> | -    | 3      |
| ANI 121        | Science of Animals that Serve Mankind               | 3    | -      |
| ANI 122        | Production and Processing Practices                 | 1    | -      |
|                |   | 15   | 16     |
| Second Year    |   | Fall | Spring |
| PLSS 200       | Principles of Field Crop Production                 | 3    | -      |
| GE-B           | Social Studies <sup>1</sup>                         | 3    | -      |
| GE-C           | Humanities <sup>1</sup>                             | 3    | 3      |
| *GE-D 153      | Public Speaking                                     | -    | 3      |
| GE-E           | Human Health and Well Being <sup>1</sup>            | 1    | 2      |
| *ECON 214, 215 | Economics - Macro, Micro                            | 3    | 3      |
|                | Electives <sup>4</sup>                              | 3    | 3      |
|                |   | 16   | 14     |

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

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

<sup>2</sup>Mathematics 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.

<sup>3</sup>ABE 204 can be substituted as GE-B credit.

<sup>4</sup>Accounting, quantitative methods, or agriculture recommended. Two courses in accounting are desirable.

### Third and Fourth Years

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

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

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 complete an Agricultural Economics/Agri-business major in two years.

**Representative First Job Titles:** Management Trainee, Agricultural Commodities Inspector, Agricultural Commodity Warehouse Examiner, Agricultural Economist, Agricultural Management Specialist, Agricultural Marketing Specialist, Agricultural Market Reporter, Economic Development Specialist, etc.

### 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 <sup>1</sup>              | -           | 3             |
| GE-B               | Social Studies (select)                                    | -           | 3             |
| GE-C               | Humanities (select) <sup>2</sup>                           | -           | 3             |
| GE-D 101, 118      | English Composition, Technical Report Writing <sup>2</sup> | 3           | 2             |
| GE-D 107           | Intermediate Algebra <sup>4</sup>                          | 3           | -             |
| GE-E 201           | Healthful Living <sup>2</sup>                              | 2           | -             |
| ABE 204            | Introduction to Agricultural Economics <sup>3</sup>        | -           | 3             |
| ANI 121            | Science of Animals that Serve Mankind                      | 3           | -             |
| ANI 122            | Production and Processing Practices                        | 1           | -             |
|                    | Electives  | -           | 2             |
|                    |  | <u>15</u>   | <u>16</u>     |
| <u>Second Year</u> |  | <u>Fall</u> | <u>Spring</u> |
| GE-A               | Science (select)   | 3           | -             |
| GE-B 202           | Introduction to Psychology <sup>2</sup>                    | 3           | -             |
| GE-B 212           |  |             |               |
| or 301             | American Government or US History <sup>2</sup>             | -           | 3             |
| GE-C               | Literature (select)  | -           | 3             |
| GE-C               | Humanities (select) <sup>2</sup>                           | 3           | -             |
| GE-D 153           | Public Speaking <sup>2</sup>                               | 3           | -             |
| GE-E               | P.E. Activity <sup>2</sup>                                 | 1           | 1             |
| PLSS 200           | Principles of Field Crop Production                        | -           | 3             |
| Agriculture        | Agricultural electives <sup>5</sup>                        | 3           | 3             |
|                    | Elective   | -           | 3             |
|                    |  | <u>16</u>   | <u>16</u>     |

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

<sup>2</sup>Courses required for certification include 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.

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

<sup>4</sup>College Algebra recommended.

<sup>5</sup>Student should consult with agriculture counselor regarding options available for agriculture electives.

### Third and Fourth Years

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

Important - see requirements for entrance into 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 <sup>1</sup>                 | -           | 3             |
| GE-B               | Social Studies  | -           | 3             |
| GE-C               | Humanities <sup>4</sup>                                       | 3           | 3             |
| *GE-D 101          | English Composition   | 3           | -             |
| GE-D 107           | Intermediate Algebra <sup>2</sup>                             | 3           | -             |
| GE-E               | Human Health and Well Being                                   | -           | 2             |
| ABE 204            | Introduction to Ag Economics <sup>3</sup>                     | -           | 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 <sup>4</sup>  | 3           | -             |
| *GE-B 108 or 202   | The Sociological Perspective or<br>Introduction to Psychology | 3           | -             |
| GE-B               | Social Studies <sup>4</sup>                                   | -           | 3             |
| GE-C               | Humanities <sup>4</sup>                                       | -           | 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.

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

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

<sup>3</sup> ABE 204 can be substituted as GE-B credit.

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

Third and Fourth Years

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

Agricultural 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: Agricultural Communications Specialist in Newspaper, Radio, T.V., Advertising or Ag. Photojournalism; Agricultural Microcomputer Application Specialist, Assistant County Extension Advisor; Product Education Specialist; Assistant Manager (Farm Supply Business); Agricultural Industry Representative; Agricultural Manager; Sales Representative.



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

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

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.

| First Year      |   | Fall | Spring |
|-----------------|---|------|--------|
| *GE-A 106       | Chemistry for Non-Science Majors              | -    | 3      |
| *GE-A 115       | Biology                                       | 3    | -      |
| *ABE 204        | Introduction to Ag Economics                  | -    | 3      |
| GE-C            | Humanities <sup>1</sup>                       | -    | 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 <sup>1</sup>      | 2    | 2      |
| *ANI 121        | Science of Animals that Serve Mankind         | 3    | -      |
| *ANI 122        | Production and Processing Practices           | 1    | -      |
|                 |   | 15   | 16     |
| Second Year     |   | Fall | Spring |
| *PHYS 203 a,b   | College Physics                               | 3    | 3      |
| GE-B            | Social Studies <sup>1</sup>                   | 3    | -      |
| GE-C            | Humanities <sup>1</sup>                       | -    | 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    | -      |
|                 |   | 15   | 15     |

\*Required or strongly recommended courses for agricultural mechanization majors.

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

Third and Fourth Years

The last two years of the individual's program concentrate on work that best leads the individual toward his or her professional goals. The individual will complete 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.

AGRICULTURE (GENERAL)

School of Agriculture  
(Bachelor of Science)

Dr. Donald M. Elkins,  
Chief Academic Advisor  
Telephone - 618-453-2469  
Agriculture Building, Room 206

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

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

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

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  
School of Technical Careers  
(Associate in Applied Science)

Frederic Morgan, Coordinator  
Telephone - 618-536-6682  
STC Building, Room 16

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

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

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

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

Also see: Radiological Technology and Respiratory Therapy.

ANIMAL 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 <sup>1</sup>                                   | 3           | 3             |
| GE-C                    | Humanities <sup>1</sup>                                       | -           | 3             |
| GE-D 101                | English Composition   | 3           | -             |
| GE-D 117, 118<br>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<br>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 <sup>2</sup>  | 4           | 4             |
| PHSL 208,209            | Physiology  | 4           | -             |
|                         |   | <u>14</u>   | <u>16</u>     |

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

<sup>2</sup>Substitutes 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<br>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<br>of Animal Industry | 1           | -             |
| BIOLOGY                  | (core suggested)  | 4           | 4             |
| MATH 108,109             | College Algebra and Trigonometry <sup>1</sup>             | 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 <sup>4</sup>                               | 3           | 3             |
| GE-C                     | Humanities  | -           | 3             |
| CHEM 222a,b              | Introduction to Chemical Principles <sup>2</sup>          | 4           | 4             |
| PHSL 208                 | Physiology  | 1           | -             |
| ANI 331                  | Physiology, Growth and Development                        | 4           | -             |
| PHYS 203a,b              | College Physics <sup>3</sup>                              | 3           | 3             |
| PHYS 253a,b              | College Physics Lab                                       | 1           | 1             |
|                          | Agriculture Elective                                      | -           | 3             |
|                          |   | <u>16</u>   | <u>17</u>     |

<sup>1</sup>Substitutes for GE-D 107 (Math).

<sup>2</sup>Substitutes for GE-A 106 (Chemistry).

<sup>3</sup>Substitutes for GE-A 101 (Physics).

<sup>4</sup>ABE 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.



**ANTHROPOLOGY**  
College of Liberal Arts  
(Bachelor of Arts)

Dr. George Gumerman, Chairperson  
Telephone - 618-536-6651  
Faner 3525

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

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

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

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

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

<sup>4</sup> Sociocultural Anthropology is central to the core curriculum and should be taken as soon as possible. Any two of 300A, B, and C may be take 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 SIUC faculty and graduate students regularly give informal lunchtime lectures about their current research.

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

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             |
|                   |                          | 21          | 19            |

| <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             |
|                    |                              | 18          | 18            |

Electives

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

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.

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

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 90 hours of art. The courses of study offered leading toward the Bachelor of Arts degree in art require 75 hours of art and/or education courses.

| <u>First Year</u>       |   | <u>Fall</u> | <u>Spring</u> |
|-------------------------|---|-------------|---------------|
| GE-B                    | Social Science                                      | -           | 3             |
| GE-C                    | Humanities <sup>1</sup>                             | 3           | -             |
| GE-D 101                | English Composition                                 | 3           | -             |
| GE-D 117, 118<br>or 119 | Expository, Technical Report or<br>Creative Writing | -           | 2             |
| GE-E                    | Human Health and Well Being                         | -           | 2             |
| ART 100 a & b           | Basic Studio  | 3           | 3             |
| ART 107                 | Fundamentals of Art <sup>1</sup>                    | 3           | -             |
| ART 110                 | Intro to Drawing I                                  | 3           | -             |
| ART 120                 | Intro to Drawing II                                 | -           | 3             |
| ART 207                 | Survey of Art <sup>1</sup>                          | -           | 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<br>or Public Speaking  | -           | 3             |
| ART 200                 | Intro to Drawing III                                | 3           | -             |
| ART 201                 | Beginning Painting                                  | -           | 3             |
| ART 203                 | Beginning Sculpture                                 | 3           | -             |
| ART 204, 205<br>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>     |

<sup>1</sup>All specializations in the School of Art receive six 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.

## ART

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

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

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

Jacquelyn Bailey  
Chief Academic Advisor  
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-A                    | Science (select)  | 3           | 3             |
| GE-B 212 or 301         | American Government or<br>American History <sup>2</sup> | -           | 3             |
| GE-C                    | Humanities <sup>1</sup>                                 | -           | 3             |
| GE-D 101                | English Composition                                     | 3           | -             |
| GE-D 117, 118<br>or 119 | Expository, Technical Report or<br>Creative Writing     | -           | 2             |
| GE-E 201                | Healthful Living  | -           | 2             |
| ART 100 a & b           | Basic Studio  | 3           | 3             |
| ART 107                 | Fundamentals of Art                                     | 3           | -             |
| ART 110                 | Intro to Drawing I                                      | 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 (select)                                 | 3           | -             |
| GE-B 202                | Introduction to Psychology <sup>2</sup>                 | 3           | -             |
| GE-D 107                | Intermediate Algebra                                    | -           | 3             |
| GE-D 152 or 153         | Interpersonal Communication or Public<br>Speaking       | -           | 3             |
| ART 201                 | Beginning Painting                                      | -           | 3             |
| ART 203                 | Beginning Sculpture                                     | 3           | -             |
| ART 204, 205<br>or 206  | Beginning Ceramics, Metals, or Fibers                   | -           | 3             |
|                         |   | <u>12</u>   | <u>12</u>     |

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

<sup>2</sup> Students 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 300, American History, or GE-B 212, American Government. From GE-E, they must select GE-E 201, Healthful Living, and two hours of activity.

## 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.

**AUTOMOTIVE TECHNOLOGY**  
School of Technical Careers  
(Associate of Applied Science)

James White, Program Coordinator  
Telephone - 618-985-4024  
Carterville Campus

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

Another unique feature is that SIUC's automotive technology program was the first program in Illinois to be 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 Body and Chassis Electrical | AUT 203-4.5 | AUT 223-3 |
| Automotive Air Conditioning            | AUT 204-4.5 | AUT 224-3 |
| Electronic Fuel and Emission Controls  | 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**

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

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

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



| First Year  |  | Credit | Hours | Weeks |
|-------------|--|--------|-------|-------|
| 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    |
|             |  | 42     | 1664  | 50    |
| Second Year |  | Credit | Hours | Weeks |
| 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    |       |
|             |  | 35     | 1088  | 36    |

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

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

##### Advanced Studies in Automotive Electronics

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

##### Advanced Studies in Automotive Power Trains

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

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

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

#### BACHELOR OF SCIENCE DEGREE OPTIONS AT SIUC

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

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

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

Two specialized five year cooperative programs with the Oldsmobile and Buick Divisions of General Motors are designed to develop graduates as district service managers. These programs are also offered under the bachelor of science degree program in Advanced Technical studies, but admission requires concurrence of the corporations.

**AVIATION FLIGHT**  
School of Technical Careers  
(Associate in Applied Science)

M. George Mandis  
Aviation Counseling and Advisement  
Southern Illinois Airport  
618-529-2681

The program of professional flight instruction at SIUC is unique, in that it has the flexibility to accommodate any student, whatever his or her academic interest. The majority of students who attend SIUC pursue the A.A.S. Aviation Flight/B.S. in Aviation Management program. Admission to SIUC's B.S. in Aviation Management program normally requires completion of an SIUC or equivalent associate degree in a technical aviation curriculum. As a result, most students, particularly freshmen, will apply for admission to the Aviation Flight degree program.

Students do, however, have other academic options. Aviation Flight may be pursued as a two-year program only, as a minor, a second major within traditional disciplines such as Business Administration or Engineering, for example, or may be combined with one of the other technical SIUC Aviation programs in Avionics Technology or Aviation Maintenance Technology.

Note: Students who apply for admission to SIUC in an academic major other than Aviation Flight should immediately contact the Aviation Counseling and Advisement Center and request a Flight Training Request Form for non-majors. This form must be completed to reserve flight training slots for students who will not be applying to the Aviation Flight degree program.

Flight training at SIUC is conducted by the SIUC Air Institute located at the Southern Illinois Airport, approximately three miles from the main campus. Free bus transportation to and from the airport is provided by the University. The SIUC 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).

Additional costs are incurred by students pursuing professional aviation. Realistically, students should plan on spending approximately \$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. Flight instruction required for the Aviation Flight curriculum includes the Private Pilot, Commercial/Instrument, Multi-Engine-Land and Flight Instructor-Airplane licenses and ratings.

Students should be encouraged to contact the faculty at the SIUC Air Institute or counselors located in New Student Admission Services 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             |
| STC 105a,b         | Technical Mathematics                     | -           | 4             |
| STC 107a,b         | Applied Physics                           | -           | 4             |
| Electives          |   | 3           | 3             |
|                    |   | 14          | 17            |
| <u>Second Year</u> |   | <u>Fall</u> | <u>Spring</u> |
| GE-D 153           | Public Speaking                           | 3           | -             |
| AF 204             | Flight - Intermediate                     | -           | -             |
| AF 205             | Instrument Flight Theory                  | 2           | -             |
| 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           | -             |
| ATA 200            | Electronics for Aviators                  | 3           | -             |
| STC 102            | Technical Writing (GED 118)               | -           | 2             |
| AF 260             | Reciprocating & Jet Airplane Systems      | -           | 4             |
| Elective           |   | -           | 4             |
|                    |   | 16          | 16            |

\* Also see Aviation Management.

\*\* Transfer students with more than 26 semester hours of coursework should contact the Coordinator of the B.S. in Aviation Management program to determine whether they can apply directly to the bachelors degree program or should apply for admission to the Aviation Flight Associate degree program. Contact: Mr. David Newmyer, Aviation Management, SIUC School of Technical Careers, Carbondale, Illinois 62901 or call 618-536-6682.

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 SEMESTER</u>                |   | <u>CR. HR.</u> | <u>LEC. HR.</u> | <u>LAB HR.</u> |
|--------------------------------------|---|----------------|-----------------|----------------|
| GE-D 101                             | English Composition                         | 3              | 3               | 0              |
| *STC 105A                            | Technical Math                              | 2              | 2               | 0              |
| AMT 111                              | Materials Processing                        | 4              | 3               | 2              |
| AMT 112                              | Aircraft Electricity                        | 4              | 2               | 5              |
| AMT 113                              | Federal Aviation Regulations                | 2              | 2               | 2              |
| AMT 114                              | Aircraft Weight and Balance                 | 2              | 2               | 2              |
| AMT 201                              | Applied Science                             | 2              | 2               | 2              |
| TOTALS                               |   | 19             | 16              | 13             |
| <u>SECOND SEMESTER</u>               |   |                |                 |                |
| AMT 116                              | Aircraft Instruments                        | 3              | 2               | 2              |
| AMT 210                              | Aircraft Electrical Systems                 | 2              | 1               | 3              |
| AMT 211                              | Reciprocating Powerplant                    | 5              | 3               | 6              |
| AMT 212                              | Carburetion, Lubrication                    | 5              | 3               | 4              |
| AMT 213                              | Ignition Systems                            | 5              | 3               | 3              |
| TOTALS                               |   | 20             | 12              | 18             |
| <u>THIRD SEMESTER</u>                |   |                |                 |                |
| GE-D 118                             | Technical Report Writing                    | 2              | 2               | 0              |
| AMT 203                              | Aircraft Aerodynamics                       | 2              | 2               | 2              |
| AMT 206                              | Metals Processing                           | 3              | 2               | 3              |
| AMT 214                              | Propellers                                  | 3              | 2               | 2              |
| AMT 215                              | Powerplant Testing                          | 5              | 3               | 4              |
| AMT 216                              | Jet Propulsion Powerplant                   | 6              | 4               | 4              |
| TOTALS                               |   | 21             | 15              | 15             |
| <u>FOURTH SEMESTER</u>               |   |                |                 |                |
| GE-B                                 | Elective                                    | 3              | 3               | 0              |
| GE-B                                 | Elective                                    | 2              | 2               | 0              |
| GE-D 152                             | Interpersonal Communication                 | 3              | 3               | 0              |
| AMT 110                              | Aircraft Structures                         | 4              | 2               | 5              |
| AMT 204                              | Aircraft Hydraulics                         | 4              | 2               | 4              |
| AMT 205                              | Cabin Environment and Jet Transport Systems | 6              | 4               | 4              |
| TOTALS                               |   | 22             | 16              | 13             |
| <u>SUMMER SESSION (8 weeks only)</u> |   |                |                 |                |
| AMT 225                              | Aircraft Inspections                        | 6              | 5               | 15             |
| AMT 230                              | Powerplant Inspections                      | 6              | 5               | 15             |
| TOTALS                               |   | 12             | 10              | 30             |

\*Students who have intermediate algebra and plane geometry are advised to take a more advanced mathematics course.

A minimum of 82 hours credit is required for the Associate Degree in Applied Science. Students who wish to qualify for the FAA Airframe and Powerplant License are required to take eight weeks of summer school.

### Aviation Maintenance Technology As A Major

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

Students entering the aviation maintenance technology program for the first time must purchase a basic tool kit and special study materials costing approximately \$400.00

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 SIUC 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               | -         | 3         |
| GE-E      | Human Health & Well Being (select) | 2         | -         |
| Electives | Technical Specialization           | 7         | 5         |
|           |                                    | <u>18</u> | <u>17</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 |
| ATS 416 | Applications of Technical Information | 3 |

Two of the following:

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

Aviation Management Specialization Requirements

15 hours required

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

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

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

Approved career electives - 27 hours

TOTAL: 120 hours



Avionics, or aircraft electronics, is a rapidly growing field requiring highly skilled technicians for work in the development, installation, and maintenance of the sophisticated avionics systems required for effective utilization of modern day aircraft by the aviation industry. The avionics technician finds opportunities for employment with the airline industry, general aviation, and in aircraft manufacturing, where employees will install, maintain, test and repair airborne communications and navigation systems, airborne radar systems, and related equipment.

All instruction is programmed in a balanced combination of classroom lecture and actual "hands on" laboratory experience under the supervision of instructors who have extensive experience and expertise in their respective fields.

The student will have courses in basic direct current, alternating current, electrical power systems, airborne, auxiliary power systems, electrical generation and distribution, load transfer, solid state devices, aircraft communications and navigation systems, instrumentation systems, and aircraft integrated flight systems, receivers, and transceiver, pulse and microwave systems, antenna types, wave propagation and transmission lines, and Federal Aviation Administration and Federal Communication Commission regulations.

In addition to regular University tuition and fees, the student is required to purchase basic tool kits and study materials at an approximate cost of \$400.00

| <u>First Semester</u> |                           | <u>CR.</u> | <u>LEC.</u> | <u>LAB</u> |
|-----------------------|---------------------------|------------|-------------|------------|
| ATA 120               | Avionics Circuit Analysis | 8          | 8           | 0          |
| ATA 125               | Avionics Laboratory I     | 5          | 0           | 10         |
| ATA 101               | Avionics Systems          | 3          | 3           | 0          |
| STC 105a,b            | Technical Mathematics     | 4          | 4           | 0          |
| TOTALS                |                           | 20         | 15          | 10         |

| <u>Second Semester</u> |                              |    |    |    |
|------------------------|------------------------------|----|----|----|
| ATA 232                | Avionics Electronic Circuits | 10 | 5  | 10 |
| ATA 210                | Aircraft Electrical Systems  | 2  | 1  | 3  |
| GED 152                | Interpersonal Communications | 3  | 3  | 0  |
| GED 101                | English Composition          | 3  | 3  | 0  |
| TOTALS                 |                              | 18 | 12 | 13 |

| <u>Third Semester</u> |                          |    |    |    |
|-----------------------|--------------------------|----|----|----|
| ATA 203               | Avionics Shop Practices  | 3  | 3  | 0  |
| ATA 204               | Avionics Shop Lab        | 3  | 0  | 6  |
| ATA 235               | Flight System Theory     | 6  | 6  | 0  |
| ATA 236               | Avionics Laboratory      | 5  | 0  | 10 |
| GED 118               | Technical Report Writing | 2  | 2  | 0  |
| TOTALS                |                          | 19 | 11 | 16 |

| <u>Fourth Semester</u> |  |    |    |    |
|------------------------|--|----|----|----|
| ATA 233                | Aircraft Communications & Navigation System Theory | 5  | 5  | 0  |
| ATA 234                | Avionics Laboratory                                | 6  | 0  | 12 |
| ATA 237                | Avionics Logic Circuits & Pulse System Theory      | 5  | 5  | 0  |
| ATA 238                | Avionics Laboratory                                | 5  | 0  | 10 |
| TOTALS                 |  | 21 | 10 | 22 |

| <u>Post Associate Courses*</u> |   |   |   |   |
|--------------------------------|---|---|---|---|
| ATA 302                        | Avionics Laboratory   | 3 | - | - |
| ATA 303                        | FCC Regulations   | 2 | - | - |
| ATA 304                        | Avionics Radar System Theory                                | 4 | - | - |
| ATA 350                        | Microcomputers for Aviation Professionals                   | 4 | - | - |
| ATA 360                        | Avionics Data Bussing & Elt. Flt. Instr. Sys.               | 5 | - | - |
| ATA 365                        | Avionics Data Bussing & Elt. Flt. Laboratory                | 4 | - | - |
| ATA 370                        | Reliability, Maintainability, Fault Prediction and Analysis | 5 | - | - |

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

A minimum of 78 hours credit is required for the associate degree.

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

BIOLOGICAL SCIENCE<sup>1</sup>  
College of Education  
(Bachelor of Science)

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

This curriculum is designed to give the student a broad, yet intensive, education in the biological sciences preparatory for various professions, especially the teaching of biology at the secondary level. The work may be taken in either the College of Science or the College of Education. The science requirement for this concentration is the same in both colleges.

The biological sciences curriculum consists of courses selected from General Education Area A and the Departments of Botany, Microbiology, Physiology, and Zoology. A student selecting biological sciences as his or her concentration does not need to take a secondary concentration.

| <u>First Year</u>        |  | <u>Fall</u> | <u>Spring</u> |
|--------------------------|--|-------------|---------------|
| ZOOL 220a,b              | Diversity of Animal Life                               | 4           | 4             |
| GE-B                     | Social Studies (select) <sup>2</sup>                   | -           | 3             |
| GE-C                     | Humanities (select) <sup>2</sup>                       | -           | 3             |
| GE-D 101                 | English Composition                                    | 3           | -             |
| GE-D 117, 118,<br>or 119 | Writing (select) <sup>2</sup>                          | -           | 2             |
| BOT 200                  | General Botany and Lab <sup>3</sup>                    | -           | 4             |
| MATH 111                 | Pre-Calculus <sup>3,4</sup>                            | 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) <sup>2</sup>                       | 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 <sup>3</sup> | 4           | 4             |
| GE-B 202                 | Introduction to Psychology                             | -           | 3             |
| PHSL 310                 | Introductory Human Physiology                          | -           | 5             |
|                          |  | <u>15</u>   | <u>16</u>     |

<sup>1</sup>See also the program under the College of Science.

<sup>2</sup>Refer to the section General Education for the Transfer Student.

<sup>3</sup>Approved substitutes for General Education.

<sup>4</sup>Or, Mathematics 108 and 109, or 140, or 141.

Biological Science As A Major

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

For specific major requirements see the Undergraduate Catalog.

Courses required for teacher certification include: 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).

**BIOLOGICAL SCIENCES<sup>1</sup>**  
 College of Science  
 (Bachelor of Arts)

Dr. John Voigt  
 Coordinator of Biological Sciences  
 Telephone - 618-536-2331  
 Neckers Building

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) <sup>2</sup>                   | 3           | -             |
| GE-C                    | Humanities (select) <sup>2</sup>                       | -           | 3             |
| GE-D 101                | English Composition                                    | 3           | -             |
| GE-D 117, 118<br>or 119 | Expository, Technical Report, or<br>Creative Writing   | -           | 2             |
| GE-E                    | Human Health and Well Being (select) <sup>2</sup>      | -           | 1             |
| *FL                     | Foreign Language <sup>4</sup>                          | 4           | 4             |
| *MATH 108,109           | College Algebra and Trigonometry <sup>3,4</sup>        | 3           | 3             |
| ZOOL 220a,b             | Diversity of Animal Life (Invertebrate,<br>Vertebrate) | 4           | 4             |
|                         |  | <u>17</u>   | <u>18</u>     |

| <u>Second Year</u> |   | <u>Fall</u> | <u>Spring</u> |
|--------------------|---|-------------|---------------|
| GE-B               | Social Studies (select) <sup>2</sup>              | 6           | -             |
| GE-C               | Humanities (select) <sup>2</sup>                  | -           | 2             |
| GE-D 152 or 153    | Interpersonal Communication or<br>Public Speaking | 3           | -             |
| GE-E               | Human Health and Well Being <sup>2</sup>          | -           | 3             |
| *BOT 200           | General Botany and Lab <sup>4</sup>               | 4           | -             |
| *BOT 204           | Plant Diversity and Lab <sup>4</sup>              | -           | 4             |
| *CHEM 222a, b      | Introduction to Chemical Principles <sup>4</sup>  | 4           | 4             |
| PHSL 210           | Introductory Human Physiology <sup>4</sup>        | -           | 5             |
|                    |   | <u>17</u>   | <u>18</u>     |

**Third and Fourth Years**

The last two years of a student's program should include completion of 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.

<sup>1</sup>See also the program (B.S.) under the College of Education.

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

<sup>3</sup>Math 111 substitutes for Math 108, 109.

<sup>4</sup>Students in the College of Science must take one year of foreign language, one year of math, six semester hours of physical sciences, and six semester hours of biological sciences.

**Biological Sciences As A Major (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<sup>1</sup>  
College of Science  
(Bachelor of Science)

Dr. John Voigt, Department Advisor  
Telephone - 618-536-2331  
Life Science II, Room 479

Botany is a broad science that includes many specialties. For example, a person who has a quantitative turn of mind and enjoys mathematics or chemistry might find genetics or biochemistry exciting, whereas a person who has always enjoyed outdoor activity might be attracted to systematic botany or ecology. Plant Morphology might appeal to a person who enjoys observation and interpretation, but plant physiology might have more appeal for a person who prefers experimentation. The exact courses that should be selected by a student who wishes to prepare for a career in botany or for graduate study will vary somewhat depending upon the area of plant science in which he or she intends to specialize.

| <u>First Year</u>       |   | <u>Fall</u> | <u>Spring</u> |
|-------------------------|---|-------------|---------------|
| GE-B                    | Social Studies (select) <sup>2</sup>              | 3           | -             |
| GE-C                    | Humanities (select) <sup>2</sup>                  | -           | 3             |
| GE-D 101                | English Composition                               | 3           | -             |
| GE-D 117, 118<br>or 119 | Writing (select)                                  | -           | 2             |
| GE-E                    | Human Health and Well Being (select) <sup>2</sup> | -           | 1             |
| *FL                     | Foreign Language <sup>3</sup>                     | 4           | 4             |
| *BOT 200                | General Botany and Lab <sup>3</sup>               | 4           | -             |
| BOT 204                 | Plant Diversity and Lab <sup>3</sup>              | -           | 4             |
| *MATH 108, 109          | College Algebra and Trigonometry <sup>3</sup>     | 3           | 3             |
|                         |   | 17          | 17            |
| <u>Second Year</u>      |   | <u>Fall</u> | <u>Spring</u> |
| GE-B                    | Social Studies (select) <sup>2</sup>              | 6           | -             |
| GE-C                    | Humanities (select) <sup>2</sup>                  | -           | 3             |
| GE-D 152                | Interpersonal Communication                       | 3           | -             |
| GE-E                    | Human Health and Well Being <sup>2</sup>          | 1           | 2             |
| *BIOLOGY 306            | Cellular Biology                                  | -           | 3             |
| BOTANY                  | Elective  | -           | 4             |
| BOTANY 304              | Plant Classification                              | 3           | -             |
| *CHEM 222a,b            | Introduction to Chemical Principles <sup>3</sup>  | 4           | 4             |
|                         |   | 17          | 15 (16)       |

\*Approved substitutes for General Education.

<sup>1</sup> See also the program under the College of Education (Bachelor of Science).

<sup>2</sup> To determine what courses may be taken to satisfy this program, please refer to the section, General Education for the Transfer Student.

<sup>3</sup> Students in the College of Science must take one year of foreign language, one year of math, 6 semester hours of physical sciences, and 6 semester hours of biological sciences.

Third and Fourth Years

The last two years of a student's program should include completion of three additional hours in GE-A, GE-B, or GE-C, Biology 305, Biology 307, and the following courses in botany: Botany 320, 337 and botany electives totaling 16 hours, distributed so as to include at least one course from each of the following groups:

- Group A. 400, 404, 405, 406, 411, 412, 413, 414, 421
- Group B. 409, 410, 430, 439, 449, 450, 451, 485
- Group C. 440, 443, 444, 448
- Group D. 425a, 425b

Electives planned to include courses in Computer Science, Microbiology, Physics, Statistics and Zoology.

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 Pathologist, Plant Physiologist, Plant Taxonomist, Plant Protection Technician, Quality Control Specialist, Technical Library Operator, Museum Curator, Biotechnologist, Industrial Bacteriologist, Naturalist, Conservationist, Agricultural Commodities Inspector, Researcher, Teacher, Cytologist.

**BUSINESS AND ADMINISTRATION**  
College of Business and Administration  
(Bachelor of Science)

Dr. Larry Chapman  
Assistant Dean  
Telephone - 618-536-4431  
Henry J. Rehn Hall, Room 113

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) <sup>1</sup>   | 3           | 3             |
| GE-B                    | Social Science (select) <sup>1</sup>  | 3           | -             |
| *GE-B 202               | Introduction to Psychology  | -           | 3             |
| GE-C-3                  | Humanities (select) <sup>1</sup>  | 3           | -             |
| GE-C                    | Humanities (select) <sup>1</sup>  | -           | 3             |
| *GE-D 101               | English Composition   | 3           | -             |
| GE-D 117, 118<br>or 119 | Expository, Technical Report<br>or Creative Writing                                   | -           | 2             |
| ECON 208                | Economic and Business Statistics  | -           | 3             |
| *MATH 139-3             | Finite Mathematics  | 3           | -             |
|                         |   | <u>15</u>   | <u>14</u>     |
| <u>Second Year</u>      |   | <u>Fall</u> | <u>Spring</u> |
| GE-A                    | Science (select) <sup>1</sup>   | -           | 3             |
| *GE-D 152 or<br>153     | Public Speaking or Interpersonal<br>Communication                                     | -           | 3             |
| GE-E-2                  | Human Health & Well Being (select) <sup>1</sup>                                       | 2           | -             |
| *ACCT 220, 230          | Financial, Managerial Accounting  | 3           | 3             |
| *CS 212 or<br>CIP 229   | Intro. to Computer Programming (Pascal) or<br>Computing for Business Admin. (Fortran) | -           | 3             |
| *ECON 214, 215          | Economics, Macro, Micro <sup>2</sup>  | 3           | 3             |
| *MATH 140-4             | Short Course in Calculus  | 4           | -             |
| *MGT 202                | Business Communications   | 3           | -             |
|                         |   | <u>15</u>   | <u>15</u>     |

\*Required course for a major in Accounting.

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

<sup>2</sup>ECON 214 or 215 counts toward 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 - 618-453-2459  
Henry J. Rehn Hall, Rm. 134

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) <sup>1</sup>                       | 3           | 3             |
| GE-B                    | Social Science (select) <sup>1</sup>                | 3           | -             |
| *GE-B 202               | Introduction to Psychology                          | -           | 3             |
| GE-C-3                  | Humanities (select) <sup>1</sup>                    | 3           | -             |
| GE-C                    | Humanities (select) <sup>1</sup>                    | -           | 3             |
| *GE-D 101               | English Composition                                 | 3           | -             |
| GE-D 117, 118<br>or 119 | Expository, Technical Report<br>or Creative Writing | -           | 2             |
| ECON 208                | Economic and Business Statistics                    | -           | 3             |
| *MATH 139-3             | Finite Mathematics                                  | 3           | -             |
|                         |   | <u>15</u>   | <u>14</u>     |

| <u>Second Year</u>    |   | <u>Fall</u> | <u>Spring</u> |
|-----------------------|---|-------------|---------------|
| GE-A                  | Science (select) <sup>1</sup>   | -           | 3             |
| *GE-D 152 or<br>153   | Public Speaking or Interpersonal<br>Communication                                     | -           | 3             |
| GE-E-2                | Human Health & Well Being (select) <sup>1</sup>                                       | 2           | -             |
| *ACCT 220, 230        | Financial, Managerial Accounting  | 3           | 3             |
| *CS 212 or<br>CIP 229 | Intro. to Computer Programming (Pascal) or<br>Computing for Business Admin. (Fortran) | -           | 3             |
| *ECON 214, 215        | Economics, Macro, Micro <sup>2</sup>  | 3           | 3             |
| *MATH 140-4           | Short Course in Calculus  | 4           | -             |
| *MGT 202              | Business Communications   | 3           | -             |
|                       |   | <u>15</u>   | <u>15</u>     |

\*Required course for a major in Accounting.

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

<sup>2</sup>ECON 214 or 215 counts toward 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 and the 40% rule.

Representative First Job Titles: Account Executive, Business & Economics Statistician, Business Planning Officer, Economic Analyst, Economic Forecaster, Investment Analyst, New Business Researcher, Organization Planning Officer, Systems Evaluator, Marketing Representative, Operating Plans and Procedures Officer, Operations Research Analyst, Labor Economist, Labor Relations Officer, Workman's Compensation Officer, Benefits Analyst, Industrial Economist, Industrial Labor Relations Specialization Officer, Business Analyst, Loan Administrator, Loan Examiner.

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

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

| <u>First Year</u>  | <u>Fall</u> | <u>Spring</u> |
|--|-------------|---------------|
| GE-B 212 or 301 American Government or U.S. History          | -           | 3             |
| GE-C Humanities (select) <sup>2</sup>                        | 3           | -             |
| GE-D 101 English Composition                                 | 3           | -             |
| GE-D 117, 118, or 119 Writing (select) <sup>2</sup>          | -           | 2             |
| GE-E 201 Healthful Living                                    | -           | 2             |
| GE-E P.E. Activity   | -           | 2             |
| GE Electives   | -           | 2             |
| CHEM 222a,b Introduction to Chemical Principles <sup>3</sup> | 4           | 4             |
| MATH 111 Pre-Calculus <sup>3</sup>                           | 5           | -             |
|  | <u>15</u>   | <u>15</u>     |
| <u>Second Year</u>   | <u>Fall</u> | <u>Spring</u> |
| GE-A Science (select) <sup>2</sup>                           | -           | 3             |
| GE-B 202 Introduction to Psychology                          | 3           | -             |
| GE-B Social Science (select) <sup>2</sup>                    | -           | 3             |
| GE-C English elective in Humanities (select) <sup>2</sup>    | 3           | -             |
| GE-C Humanities (select) <sup>2</sup>                        | -           | 3             |
| GE-D 153 Public Speaking                                     | -           | 3             |
| CHEM 226 Introduction to Quantitative Chemical Principles    | 5           | -             |
| PHYSICS 203a/253a College Physics/Lab                        | -           | 4             |
| MATH 150 Calculus I  | 4           | -             |
|  | <u>15</u>   | <u>16</u>     |

<sup>1</sup>See also the program under College of Science.

<sup>2</sup>Refer to the section General Studies for the Transfer Student.

<sup>3</sup>Approved substitutes for General Education

For specific major requirements see the Undergraduate Catalog.

#### Chemistry As A Major

The following courses are required for teacher certification: 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).

## CHEMISTRY<sup>1</sup>

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.

| <u>First Year</u> |   | <u>Fall</u> | <u>Spring</u> |
|-------------------|---|-------------|---------------|
| 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) <sup>2</sup> | 3           | 3             |
| *CHEM 222a,b      | Introduction to Chemical Principles         | 4           | 4             |
| GE-C              | Humanities (select) <sup>3</sup>            | -           | 3             |
| MATH 111          | Pre-Calculus <sup>2</sup>                   | 5           | -             |
| MATH 150          | Analytic Geometry and Calculus <sup>2</sup> | -           | 4             |
|                   |   | 18          | 16            |

| <u>Second Year</u> |  | <u>Fall</u> | <u>Spring</u> |
|--------------------|--|-------------|---------------|
| GE-B               | Social Sciences (select) <sup>3</sup>      | 3           | -             |
| CHEM 226a,b        | Intro to Quantitative Chemistry Principles | 3           | 2             |
| 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) <sup>2</sup>          | 4           | 4             |
|                    |  | 16          | 14            |

\*Approved substitutes for General Education.

<sup>1</sup>See also program under College of Education.

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

<sup>3</sup>Refer to 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.

**CINEMA AND PHOTOGRAPHY**  
College of Communications and Fine Arts  
(Bachelor of Arts)

Gary P. Kolb, Acting Chairperson  
Telephone - 618-453-2365  
Communications Bldg.-North Wing

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) <sup>1</sup>                      | 3           | 3             |
| GE-B               | Social Studies (select) <sup>1</sup>               | -           | 3             |
| GE-C               | Humanities (select) <sup>1</sup>                   | 3           | -             |
| *GE-D 101          | English Composition                                | 3           | -             |
| GE-D 107           | Intermediate Algebra                               | -           | 3             |
| GE-D 117, 118      |  |             |               |
| or 119             | Writing (select) <sup>1</sup>                      | -           | 2             |
| GE-D 152 or 153    | Interpersonal Communication or Public Speaking     | 3           | -             |
| GE-E               | Human Health and Well Being (select) <sup>1</sup>  | 2           | 2             |
|                    |  | <u>14</u>   | <u>13</u>     |
| <u>Second Year</u> |  | <u>Fall</u> | <u>Spring</u> |
| GE-A               | Science (select) <sup>1</sup>                      | -           | 3             |
| GE-B               | Social Studies (select) <sup>1</sup>               | 3           | 3             |
| GE-C               | Humanities (select) <sup>1</sup>                   | 3           | 3             |
| GE Elective        | From A, B or C (select) <sup>1</sup>               | 3           | -             |
| *C&P 310 or 360    | History of Still Photography or Film Analysis      | 3           | -             |
| *C&P 311 or 368    | Contemporary Photography or Intro to Cinema Theory | -           | 3             |
| *C&P 320 or 355    | Basic Photography or Film Production I             | 4           | -             |
| *C&P 322 or 356    | Color Photography or Film Production II            | -           | 4             |
|                    |  | <u>16</u>   | <u>16</u>     |

<sup>1</sup>Refer to section General Education for the Transfer Student.

\*Requirements for Cinema and Photography major.

Cinema And Photography As A Major

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

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

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

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

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

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

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

Representative First Job Titles: Studio Assistant, Illustrator, Cameraperson, Visual Information Specialist, Color Technician, Sales Manager, Advertising Agent, Newsfilm Editor, Film Production Staff, Film Planner, Free Lance Photographer, Documentary Film Specialist, Quality Control Officer, Photographer, Multi-Media Specialist, Film Editor, Production Assistant, Assistant Sound Recorder/Mixer, Lighting Technician, Independent Filmmaker, Independent Producer, Photo-Journalist, Stylist, Graphic Arts Technician, Communications Specialist, Medical Illustrator, Teacher, Screenwriter, Cinematographer, Production Manager, Assistant Cinematographer, Special Effects Photographer, Film Animator.

## CIVIL ENGINEERING

College of Engineering and Technology  
(Bachelor of Science)

Dr. Philip K. Davis  
Telephone - 618-536-2268  
Technology Building, Room D23

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.

| First Year     |   | Fall | Spring |
|----------------|---|------|--------|
| ENGR 100       | Introduction to Engineering                           | 3    | -      |
| GE-B           | Social Sciences (select) <sup>1,2</sup>               | -    | 3      |
| GE-C           | Humanities (select) <sup>1,2</sup>                    | 3    | 3      |
| GE-D 101 & 118 | English Comp. & Technical Report Writing <sup>1</sup> | 2    |        |
| GE-E           | Human Health and Well Being (select) <sup>1</sup>     | -    | 2      |
| CHEM 222a,c    | Intro. to Chemical Principles and Lab <sup>3</sup>    | 4    | 3      |
| MATH 150, 250  | Calculus I & II <sup>3</sup>                          | 4    | 4      |
|                |   | 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 115       | Introductory Biology <sup>2</sup>                     | 3    | -      |
| GE-B           | Social Studies (select) <sup>1,2</sup>                | -    | 3      |
| GE-C           | Humanities (select) <sup>1,2</sup>                    | -    | 3      |
| GE-D 153       | Public Speaking <sup>1,2</sup>                        | 3    | -      |
| MATH 251, 305  | Calculus III and Differential Equations I             | 3    | 3      |
| PHYS 205a,b    | University Physics <sup>3</sup>                       | 3    | 3      |
|                |   | 16   | 15     |

<sup>1</sup>See General Education for the Transfer Student. Transfer students without a baccalaureate-oriented associate degree will be required to take some specific general education courses. It is recommended that such students contact the College of Engineering and Technology Advisement Office for information on approved general education courses.

<sup>2</sup>Due to accreditation standards, those students transferring with a baccalaureate-oriented associate degree must have 16 semester hours of Social Sciences and Humanities; six or seven semester hours of oral and written communications, and 18 semester hours of basic science. A 300 level Social Science or Humanities course must be taken at SIUC or at another senior level institution. This 300 level course must build on a discipline already completed. Because of this accreditation requirement, in most cases, a maximum of 13 semester hours of Social Sciences and Humanities will be counted toward this 16 hour requirement.

<sup>3</sup>Substitutes for General Education requirements.

To remain in the College, students are subject to the requirement of maintaining a 2.00 accumulative grade point average in all of their major courses. Major courses in engineering used in determining the major grade point averages are courses with the prefix ENGR, CE, EE, EM, ME, and MNGE. This is part of the college's Retention Policy.

Transfer students from community colleges or other institutions should have strong backgrounds in the physical sciences, mathematics, social sciences, and humanities. Students are encouraged to complete specific freshman and sophomore course requirements which include 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, Foreign Language and International Trade, French, German, Russian, and Spanish. There is also a special major in East Asian Studies leading to the Bachelor of Arts degree in the College of Liberal Arts for students who have a professional or occupational interest in Asia. Students 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,<br>118 or 119                         | English Composition and Writing (select)                  | 3    | 2      |
| CLAS 133a,b or<br>CLAS 130a,b<br>or<br>CLAS 202a,b or | Elementary Latin <sup>1,2</sup> or Greek <sup>1,2</sup>   | 4    | 4      |
| CLAS 201a,b   | Intermediate Latin <sup>1,2</sup> or Greek <sup>1,2</sup> | (3)  | (3)    |
| GE-D 107  | Intermediate Algebra                                      | -    | 3      |
| GE-E  | Human Health and Well Being (select)                      | 2    | -      |
|   |   | 14   | 14     |
| Second Year   |   | Fall | Spring |
| GE-A  | Science (select)  | 3    | 3      |
| GE-B  | Social Science (select)                                   | -    | 3      |
| MATH or CS  | Mathematics or Computer Science <sup>3</sup>              | 3    | -      |
| GE-D 152 or 153                                       | Interpersonal Communication<br>or Public Speaking         | 3    | -      |
| CLAS  | Classics Electives <sup>4</sup>                           | 3    | 3      |
| GE-E  | Human Health and Well Being (select)                      | -    | 2      |
| CLAS  | Latin or Greek Language                                   | 3    | 3      |
|   |   | 15   | 14     |

<sup>1</sup>Two semesters (which is generally eight hours) of a foreign language are required for all Liberal Arts students who entered college anywhere Fall 1978 or later. However, four of these hours may be used for GE-C credit.

<sup>2</sup>Required by the major--two years of one language or one year of each.

<sup>3</sup>One of these courses may be used to partially fulfill the Liberal Arts requirement 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.

<sup>4</sup>Required 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.

NOTES: Foreign Language majors must satisfy College of Liberal Arts requirements. Transfer students who major in a foreign language must complete a minimum of 12 semester hours in language courses at SIUC.

**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)

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

Dr. Wayne L. St. John  
Coordinator  
Telephone - 618-453-3321  
Quigley Hall, Room 311

The apparel design program in the Division of Comprehensive Planning and Design gives students training for design occupations either in an industrial setting or in a custom shop. Many careers in design-related businesses are also available to the graduates of this program. The variety of courses offered is outstanding which provides the student with opportunity to develop individual skills and competencies.

| <u>First Year</u>       |  | <u>Fall</u> | <u>Spring</u> |
|-------------------------|--|-------------|---------------|
| GE-A 115, 117<br>or 118 | Biological Science                             | 3           | -             |
| GE-A                    | Science (select)                               | -           | 3             |
| GE-B 211                | Contemporary Economics                         | -           | 3             |
| GE-C                    | Humanities (select philosophy or literature)   | -           | 3             |
| GE-D 101                | English Composition                            | 3           | -             |
| GE-D 117 or 118         | Expository or Technical Report Writing         | -           | 2             |
| GE-E 107, 201<br>or 236 | Human Health and Well Being (select)           | -           | 2             |
| ART 100a <sup>1</sup>   | Two Dimensional Design                         | -           | 3             |
| VES 336                 | Survey of Clothing                             | 3           | -             |
| VES 338a                | Beginning Clothing Construction                | 3           | -             |
| GE-B                    | Electives                                      | 3           | -             |
|                         |  | <u>15</u>   | <u>16</u>     |
| <u>Second Year</u>      |  | <u>Fall</u> | <u>Spring</u> |
| GE-A                    | Science (select)                               | 3           | -             |
| 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 activity)  | -           | 2             |
| ART 110                 | Introduction to Drawing I                      | 3           | -             |
| ART 206                 | Beginning Fibers                               | -           | 3             |
| VES 337                 | Clothing for Consumers                         | 3           | -             |
| VES 345                 | Textiles                                       | -           | 4             |
|                         |  | <u>15</u>   | <u>15</u>     |

<sup>1</sup> ART 100a will substitute for GEC 101. Apparel design students must take ART 100a.

### Third and Fourth Years

If not completed at the junior college level, VES 338a (Beginning Clothing Construction) must be taken the first semester the transfer student is at SIUC. Other courses taken during the last two years will include the professional apparel design courses within the department and professional electives.

This specialization is intended for the student interested in professional preparation in apparel design or allied design positions in either industrial or commercial fashion businesses. The courses available to the student cover textile information, fashion design, and skills required for developing original designs into patterns and completed garments. Courses in clothing and textiles are complemented by ones in art, business, and other areas in order to provide a suitable background for various career opportunities.

Representative First Job Titles: Family Expenditures Education Specialist, Consumer Market Analyst, Consumer Relations Officer, Apparel Designer, Fashion Coordinator, Patterns Designer, Tailor, Clothing Economist, Fashion Merchandising Expert, Advertising Assistant, Retail Store Manager, Cost Analyst, Customer Services Specialist, Sales Agent, Purchasing Manager, Marketing Specialist, Textile Selector, Textile Laboratory Assistant, Customer Relations Specialist, Pattern Maker, Industrial Relations Specialist, Price Economist, Manufacturer's Representative.

## CLOTHING AND TEXTILES

### (Retailing)

Department of Vocational Education Studies  
College of Education  
(Bachelor of Science)

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

Dr. Wayne L. St. John  
Coordinator  
Telephone - 618-453-3321  
Quigley Hall, Room 311

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

| <u>First Year</u>       |   | <u>Fall</u> | <u>Spring</u> |
|-------------------------|---|-------------|---------------|
| GE-A 115, 117<br>or 118 | Biological Science  | 3           | -             |
| GE-A                    | Science (select)  | -           | 3             |
| GE-B                    | Social Sciences (select)                                  | 3           | 3             |
| GE-B 202                | Introduction to Psychology                                | -           | 3             |
| GE-C                    | Humanities (select philosophy or literature) <sup>1</sup> | 3           | 3             |
| GE-D 101                | English Composition                                       | 3           | -             |
| GE-D 117, 118<br>or 119 | Writing (select)  | -           | 2             |
| GE-E 107, 201<br>or 236 | Human Health and Well Being (select)                      | -           | 2             |
| VES 336                 | Survey of Clothing  | 3           | -             |
|                         |   | <u>15</u>   | <u>16</u>     |
| <u>Second Year</u>      |   | <u>Fall</u> | <u>Spring</u> |
| GE-A                    | Science (select)  | 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 activity)             | -           | 2             |
| ACCT 210 or 220         | Principles of Accounting                                  | -           | 3             |
| VES 337                 | Clothing for Consumers                                    | 3           | -             |
| VES 345                 | Textiles  | -           | 4             |
| VES 347                 | Fashion Motivation  | 3           | -             |
|                         |   | <u>15</u>   | <u>15</u>     |

<sup>1</sup> Art 100a will substitute for GE-C 101. Retailing students must take Art 100a.

### Third and Fourth Years

Courses during the last two years will include additional work in marketing, management and related business courses; core, electives and professional courses within the Clothing and Textiles Department; and elective hours. The retailing major should have some experience in a sales position before the junior year.

This specialization prepares students for a profession in retail stores, either as buyers or department managers. Other related retailing positions which are also available to the student include personnel, training, inventory control, and security.

Representative First Job Titles: Family Expenditures Education Specialist, Consumer Market Analyst, Consumer Relations Officer, Apparel Designer, Fashion Coordinator, Patterns Designer, Tailor, Clothing Economist, Fashion Merchandising Expert, Advertising Assistant, Retail Store Manager, Cost Analyst, Customer Services Specialist, Sales Agent, Purchasing Manager, Marketing Specialist, Textile Selector, Textile Laboratory Assistant, Customer Relations Specialist, Pattern Maker, Industrial Relations Specialist, Price Economist, Manufacturer's Representative.

COMMERCIAL GRAPHICS--DESIGN  
 School of Technical Careers  
 (Associate in Applied Science)

John L. Yack, Program Supervisor  
 Telephone - 618-536-6682 Ext. 271  
 Blue Barracks

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

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

Each graduating CGD student is required to attain a 90% or better achievement on a vocabulary proficiency test, and to have compiled a professionally acceptable portfolio of work.

The student should expect to spend approximately \$1,500 - \$2,000 for supplies, equipment, and materials over a two-year period.

An advisory committee whose members are active in the advertising and graphic design professions serves the program.

All faculty are professionals attracted from agencies or studios, hence are uniquely adept in the practical aspects of design.

| <u>First Year</u>  |  | <u>Fall</u> | <u>Spring</u> |
|--------------------|--|-------------|---------------|
| GE-D 101           | English Composition                                  | 3           | -             |
| GE-D 153           | Public Speaking                                      | -           | 3             |
| CG 109             | Basic Photography for Graphic Design                 | -           | 2             |
| CG 110             | Survey of Graphic Design                             | 3           | -             |
| CG 120             | Artistic Anatomy and Color Perception I              | 4           | -             |
| CG 122             | Technical Drawing for Graphic Design                 | 4           | -             |
| CG 124             | Graphic Layout and Typography I                      | 4           | -             |
| CG 130             | Artistic Anatomy and Color Perception II             | -           | 4             |
| CG 132             | Airbrush and Photo Retouching                        | -           | 4             |
| CG 133             | Copyfitting  | -           | 1             |
| CG 134             | Graphic Layout and Typography II                     | -           | 4             |
| *CG 150            | Computer Applications for Commercial Graphics-Design | -           | 2             |
|                    |  | <u>18</u>   | <u>20</u>     |
| <u>Second Year</u> |  | <u>Fall</u> | <u>Spring</u> |
| GE-B 202           | 200 Level Elective (Psychology recommended)          | 3           | -             |
| CG 210             | Advertising Graphics                                 | 6           | -             |
| CG 224             | Publication Graphics                                 | 6           | -             |
| CG 222             | Graphic Design and Advertising Illustration          | -           | 6             |
| CG 215             | Dimensional Design                                   | -           | 6             |
| CG 230             | Job Orientation Seminar                              | -           | 1             |
| STC 102            | Technical Writing (Special Course for Majors)        | 2           | -             |
|                    |  | <u>17</u>   | <u>13</u>     |

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

A minimum of 69 hours is required for this program.

Applicants will first be admitted to the University with a "Provisional - Commercial Graphics" designation for the Fall 1988 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)

Kenneth Ruder, Chairperson  
 Telephone - 618-453-4301  
 Communications Bldg., Rm 1003

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) <sup>1</sup>                       | 3           | 3             |
| GE-A, GE-B,<br>or GE-C | Select <sup>1</sup>                                    | -           | 3             |
| GE-D 101, 117          | English Composition and Expository Writing             | 3           | 2             |
| GE-D 107               | Intermediate Algebra                                   | -           | 3             |
|                        |  | <u>15</u>   | <u>11</u>     |
| <u>Second Year</u>     |  | <u>Fall</u> | <u>Spring</u> |
| GE-A                   | (select) <sup>1</sup>                                  | 3           | -             |
| GE-B 206               | Applied Child Development                              | 3           | -             |
| GE-C                   | English elective in Humanities                         | 3           | -             |
| GE-D 152 or 153        | Interpersonal Communication or<br>Public Speaking      | -           | 3             |
| GE-E                   | Human Health and Well Being (select) <sup>1</sup>      | 1           | 1             |
| GE-E 201               | Healthful Living                                       | 2           | -             |
| PSYC 301               | Child Psychology                                       | -           | 3             |
| CDS 200                | Phonetics  | 3           | -             |
| CDS 203                | Introduction to Speech-Language<br>and Hearing Science | -           | 3             |
| CDS 105                | Introduction to Communication Disorders                | -           | 3             |
|                        | Departmental Electives                                 | -           | 7             |
|                        |  | <u>15</u>   | <u>20</u>     |

<sup>1</sup> Refer to the section General Education for the Transfer Student.

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 and Language Pathologist, Speech and Hearing Therapist, Audiologist, Speech and Hearing Consultant, Hearing Aid Specialist.



## COMPUTER INFORMATION PROCESSING

School of Technical Careers  
(Associate in Applied Science)

Byron Johnson  
Program Coordinator  
Telephone - 618-536-6682 ext. 268  
Faner Building, A-2042

The growth of information processing in both the expansion of installations and the complexity of hardware and software has increased the need for competent information processing personnel. The curriculum in computer information processing at the School of Technical Careers prepares students for employment as business computer programmers and systems analysts. Skills which the graduate obtains include competency in programming languages (such as COBOL, RPG and Assembler) and associated areas (such as accounting and systems design).

Students enrolled in the program have access to a modern large-scale IBM computer with batch and interactive facilities and an IBM PC Lab. The hardware and software configurations are representative of large computer installations in industry. The data center is available for student use approximately 100 hours per week.

The associate degree program can be completed in two academic years at Southern Illinois University at Carbondale or in combination with community colleges or other acceptable extra-institutional educational experiences. Students beginning the program in the spring semester may require five semesters to complete the degree. Students should plan to spend small amounts for special laboratory materials.

Students completing this program may seek employment as entry level business applications programmers and systems analysts or may continue their studies by enrolling in a bachelor's degree program, such as the Advanced Technical Studies program in the School of Technical Careers.

An advisory committee of professional people and educators meet annually on campus to review the program to assure its continuing responsiveness to the current needs of today's industry.

| <u>First Year</u>  |   | <u>Fall</u> | <u>Spring</u> |
|--------------------|---|-------------|---------------|
| GE-D 101           | English Composition                               | 3           | -             |
| GE-D 118           | Technical Writing                                 | -           | 2             |
| GE-D 152 or 153    | Interpersonal Communication or<br>Public Speaking | -           | 3             |
| CIP 101            | Introduction to Information Processing            | 3           | -             |
| CIP 102            | Introduction to Programming                       | 3           | -             |
| CIP 103            | Information Processing Mathematics                | 3           | -             |
| CIP 111            | COBOL Programming I                               | -           | 3             |
| CIP 131            | Information Processing Applications               | -           | 3             |
| STC 120            | Fiscal Aspects of Technical Careers I             | 3           | -             |
| STC 220            | Fiscal Aspects of Technical Careers II            | -           | 3             |
|                    |   | <u>15</u>   | <u>14</u>     |
| <u>Second Year</u> |   | <u>Fall</u> | <u>Spring</u> |
| CIP 121            | RPG Programming                                   | 3           | -             |
| CIP 122            | COBOL Programming II                              | 3           | -             |
| CIP 213            | Information Processing Project                    | -           | 6             |
| CIP 222            | Assembler Language Programming                    | -           | 4             |
| CIP 232            | Systems Design and Development                    | -           | 3             |
| CIP 233            | Job Control Language and Utilities                | 4           | -             |
| STC 210A           | Job Orientation                                   | 2           | -             |
| Elective           | Social Elective                                   | 3           | -             |
| Elective           | Technical Elective                                | <u>3</u>    | <u>3</u>      |
|                    |   | <u>18</u>   | <u>16</u>     |

### Computer Information Processing As A Major

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

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

### Computer Information Processing As A Minor

Twenty hours of work in computer information 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.

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

Dr. Yaakov Varol, Chairperson  
Telephone - 618-536-2327  
Faner Bldg., Rm. 2123

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-B                          | Social Science (select) <sup>1</sup>                               | 3            | -             |
| GE-C                          | Humanities (select) <sup>1,2</sup>                                 | 3            | 3             |
| GE-D 101 & 117,<br>118 or 119 | English Composition <sup>1</sup> and Writing (select) <sup>1</sup> | 3            | 2             |
| GE-E                          | Human Health and Well Being (select) <sup>1</sup>                  | 1            | -             |
| CS 202                        | Introduction to Computer Programming <sup>3</sup>                  | -            | 3             |
| CS 215                        | Discrete Structures <sup>3</sup>                                   | -            | 3             |
| MATH 111                      | Pre-Calculus <sup>4</sup>  | 5            | -             |
| MATH 150                      | Calculus I <sup>3</sup>  | -            | 4             |
|                               |  | <u>15</u>    | <u>15</u>     |
| <u>Second Year</u>            |  | <u>Fall</u>  | <u>Spring</u> |
| GE-B                          | Social Science (select) <sup>1</sup>                               | -            | 3             |
|                               | Lab Science <sup>3,5,6</sup>                                       | 3-4          | 3-4           |
| GE-D 152 or 153               | Interpersonal Communication or Public Speaking                     | -            | 3             |
| GE-E                          | Human Health and Well Being (select) <sup>1</sup>                  | 2            | -             |
| CS 220                        | Advanced Programming Techniques <sup>3</sup>                       | 3            | -             |
| CS 302                        | Assembly Language Programming <sup>3</sup>                         | -            | 4             |
| MATH 221                      | Introduction to Linear Algebra <sup>3</sup>                        | -            | 3             |
| MATH 250                      | Calculus II <sup>3</sup>   | 4            | -             |
|                               |  | <u>15-16</u> | <u>16-17</u>  |

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

<sup>2</sup>GE-C 208 Elementary Logic is recommended.

<sup>3</sup>Required by the major.

<sup>4</sup>Will substitute for general education mathematics.

<sup>5</sup>Consult with the department's undergraduate program director for the approved list of lab science courses.

<sup>6</sup>These courses may substitute for general education requirements.

**Computer Science Courses:** CS 202 is a first course in programming using the language PASCAL. CS 220, a continuation of 202, is a data structures course which also uses PASCAL. CS 302 is an intensive course in assembly language programming. CS 215, a discrete structures course, is a pre-requisite to 220 and 302.

**Mathematics Courses:** The basic calculus requirement for a CS major under Option A is eight hours as defined by Math 150 and 250. Math 251, the third calculus course, is not required, but it can be taken as an elective. Note that a student with insufficient background must take a pre-calculus course such as Math 111 prior to taking Math 150 and CS 215.

**Science Courses:** The department requires a two-semester sequence of laboratory science or engineering courses chosen from an approved list which is maintained by the department's undergraduate program director. Two additional science or engineering courses are required. Some of these courses may substitute for general education requirements.

**Computer Science As A Major**

The department offers courses covering the major areas of computer science. These courses constitute the basis for an undergraduate curriculum which prepares students for professional and technical careers in government and industry or for graduate work leading to advanced degrees. The curriculum includes such topics as programming, computer hardware and software systems, simulation, graphics, artificial intelligence, database systems, and computer applications to business and science. Students will be advised with respect to computer science courses by the department so that they may profitably pursue their academic and professional interests.

**Representative First Job Titles:** Data Processing Programmer, Scientific Programmer, Systems Programmer, Programmer/Analyst, Systems Analyst, Software Engineer, Database Specialist, Data Communications Specialist, Artificial Intelligence Developer, Graphic Applications Programmer, Digital/Electronics Designer, Research Associate, Consultant.

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

Dr. Yaakov Varol, Chairperson  
Telephone - 618-536-2327  
Faner Bldg. Rm. 2123

The Department of Computer Science also offers a second undergraduate program leading to the Bachelor of Arts degree. The curriculum will provide a student with broad undergraduate training in computer science with an emphasis on business applications.

| <u>First Year</u>             |   | <u>Fall</u> | <u>Spring</u> |
|-------------------------------|---|-------------|---------------|
| GE-A                          | Science (select) <sup>1</sup>   | 3           | -             |
| GE-B                          | Social Science (select) <sup>1</sup>                                  | 3           | 3             |
| GE-C                          | Humanities (select) <sup>1,2</sup>                                    | 3           | -             |
| GE-D 101 & 117,<br>118 or 119 | English Composition <sup>1</sup> and<br>Writing (select) <sup>1</sup> | 3           | 2             |
| GE-E                          | Human Health and Well Being (select) <sup>1</sup>                     | 1           | -             |
| CS 202                        | Introduction to Computer Programming <sup>3</sup>                     | -           | 3             |
| CS 215                        | Discrete Structures I <sup>3</sup>                                    | -           | 3             |
| MATH 108                      | College Algebra   | 3           | -             |
| MATH 140                      | Short Course in Calculus <sup>3</sup>                                 | -           | 4             |
|                               |   | <u>16</u>   | <u>15</u>     |
| <u>Second Year</u>            |   | <u>Fall</u> | <u>Spring</u> |
| GE-D 152 or 153               | Interpersonal Communication or Public Speaking                        | -           | 3             |
| FL                            | Foreign Language <sup>4</sup>   | 4           | 4             |
| ACCT 220,230                  | Accounting I, II <sup>3</sup>   | 3           | 3             |
| CS 220                        | Advanced Programming Techniques <sup>3</sup>                          | 3           | -             |
| CS 302                        | Assembly Language Programming <sup>3</sup>                            | -           | 4             |
| ENG 290                       | Intermediate Expository Writing                                       | 3           | -             |
| MATH 282 or 283               | Introduction to Statistics <sup>3</sup>                               | 3           | -             |
|                               |   | <u>16</u>   | <u>14</u>     |

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

<sup>2</sup>GE-C 208 Elementary Logic is recommended.

<sup>3</sup>Required by the major.

<sup>4</sup>Two semesters (which is generally eight hours) of a foreign language are required for all Liberal Arts students who entered college anywhere Fall 1978 or later. However, four of these hours may be used for GE-C credit.

Computer Science Courses: CS 202 is a first course in programming using the language PASCAL. CS 220, a continuation of 202, is a data structures course which also uses PASCAL. CS 302 is an intensive course in assembly language programming. CS 215, a discrete structures course, is a pre-requisite to 220 and 302.

Mathematics Courses: The calculus requirement for a CS major under Option B is four hours as defined by Math 140. Note that a student with insufficient background must take a college algebra course such as Math 108 prior to taking CS 215.

Computer Science As A Major

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. The department offers courses covering the major areas of computer science. These courses constitute the basis for an undergraduate curriculum which prepares students for professional and technical careers in government and industry or for graduate work leading to advanced degrees. The curriculum includes such topics as programming, computer hardware and software systems, simulation, graphics, artificial intelligence, database systems, and computer applications to business and science. Students will be advised with respect to computer science courses by the department so that they may profitably pursue their academic and professional interests.

Representative First Job Titles: Business Applications Programmer, Programmer/Analyst, Systems Analyst, Software Engineer, Database Specialist, Consultant.

CONSTRUCTION TECHNOLOGY  
School of Technical Careers  
(Associate of Applied Science)

James Naas  
Program Coordinator  
Telephone - 618-985-4110  
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              |
| GE-D 101           | English Composition  | -           | 3              |
| CST 100            | Construction Orientation                                     | 1           | -              |
| CST 102            | Construction Drawing and Blueprint Reading                   | 4           | -              |
| CST 103            | Concrete Technology  | -           | 4              |
| CST 104            | Surveying in Construction                                    | 4           | -              |
| CST 110            | Residential Framing and Exterior Finish                      | 5           | -              |
| CST 203            | Construction Materials                                       | -           | 3              |
| CST 208            | Construction Estimating                                      | -           | 3              |
|                    |  | <u>18</u>   | <u>17</u>      |
| <u>Second Year</u> |  | <u>Fall</u> | <u>Spring</u>  |
| GE-D 118 or 153    | Technical Report Writing or<br>Public Speaking               | -           | 2 (3)          |
| STC 120            | Fiscal Aspects of Technical Careers                          | 3           | -              |
| CST 105            | Construction Codes, Specifications,<br>Inspection and Safety | 2           | -              |
| CST 111            | Remodeling and Renovation                                    | -           | 3              |
| CST 125            | Structural Mechanics   | 3           | -              |
| CST 207            | Construction Management                                      | -           | 3              |
| CST 209            | Mechanical Systems   | 4           | -              |
| CST 210            | Remodeling and Renovation                                    | -           | 3              |
| CST 211            | Commercial Construction                                      | 3           | -              |
| CST 225            | Structural Mechanics II                                      | -           | 3              |
| Elective           | Social Studies or Humanities                                 | -           | 3              |
|                    |  | <u>15</u>   | <u>17 (18)</u> |

Construction Technology As A Major

Residential and light commercial building construction offers a multitude of opportunities in the areas of management and supervision.

The student will learn basic energy efficient construction principles including active and passive solar applications, surveying, drafting and properties of construction materials. He or she will be able to develop construction details and working drawings, and to make construction cost estimates, including labor, materials, and schedules. The student will learn code requirements and specifications affecting mechanical equipment such as plumbing, heating, air conditioning, and illumination. He or she will acquire the knowledge necessary for basic management and business positions through the study of business fiscal management, technical writing, physical sciences, and mathematics.

The student in this program will have the benefit of a well-equipped wood utilization laboratory.

A minimum of 67 hours credit is required for the associate degree.

Representative First Job Titles: Carpenter, Construction Engineering Aide, Building Materials Salesperson, Estimator, Construction Foreman, Assistant to Contract Supervisor, Inspector, Assistant Project Manager.

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

Dr. Fred R. Isberner, 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)                             | 3           | 3             |
| *GE-B 108                | Sociological Perspective <sup>1</sup>        | 3           | -             |
| GE-C                     | Humanities (select)                          | -           | 3             |
| GE-D 101 &<br>117 or 118 | English Composition and Writing <sup>1</sup> | 3           | 2             |
| GE-D 153                 | Public Speaking <sup>1</sup>                 | -           | 3             |
| GE-D 107                 | Intermediate Algebra                         | 3           | -             |
| GE-E                     | Human Health and Well Being (select)         | 1           | 1             |
| Elective                 |  | -           | 3             |
|                          |  | <u>16</u>   | <u>15</u>     |
| <u>Second Year</u>       |  | <u>Fall</u> | <u>Spring</u> |
| GE-A                     | Science (select)                             | -           | 3             |
| *GE-B 202                | Introduction to Psychology <sup>1</sup>      | 3           | -             |
| *GE-B 211                | Contemporary Economics <sup>1</sup>          | -           | 3             |
| GE-C                     | Humanities (select)                          | 3           | 3             |
| GE-E                     | Human Health and Well Being (select)         | 2           | -             |
| GE-A, B, C               | (select)                                     | 3           | -             |
| Electives                | (accounting recommended)                     | 5           | 6             |
|                          |  | <u>16</u>   | <u>15</u>     |

<sup>1</sup>Required General Education courses.

Third and Fourth Years

The last two years of a student's program concentrate on specialized objectives and departmental requirements. These include the following areas: consumer resources and problems, housing concerns, consumers in the market, family financial management, business law, and public relations. In the senior year, students participate in an internship and take a course preparing them to identify consumer affairs positions.

Graduates may work in a variety of industries (insurance, banking, airlines, utility companies, food retailers, food processors) and governmental agencies (local consumer affairs offices, FTC, FDA).

Representative First Job Titles: Consumer Services Specialist, Consumer Relations or Customer Relations Officer, Consumer Affairs or Information Specialist, Consumer Educator, Community Liaison Specialist.



CONSUMER ECONOMICS AND FAMILY MANAGEMENT  
(Family Service Consultant Option)  
School of Technical Careers  
(Bachelor of Science)

Dr. Fred R. Isberner, Coord.  
Division of Advanced Technical  
Studies, Telephone - 618-536-6682  
School of Technical Careers  
STC Building, Room 126

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

| <u>First Year</u>         |  | <u>Fall</u> | <u>Spring</u> |
|---------------------------|--|-------------|---------------|
| GE-A                      | Science (select)   | 3           | 3             |
| GE-B 108                  | Sociological Perspective <sup>1</sup>  | 3           | -             |
| GE-C                      | Humanities (select)  | -           | 3             |
| GE-D 101,<br>& 117 or 118 | English Composition & Expository or<br>Technical Report Writing <sup>1</sup> | 3           | 2             |
| GE-D 153                  | Public Speaking <sup>1</sup>   | -           | 3             |
| GE-D 107                  | Intermediate Algebra   | 3           | -             |
| GE-E                      | Human Health and Well Being  | 2           | 1             |
| Electives                 |  | -           | 3             |
|                           |  | <u>14</u>   | <u>15</u>     |
| <u>Second Year</u>        |  | <u>Fall</u> | <u>Spring</u> |
| GE-A                      | Science (select)   | -           | 3             |
| GE-B 202                  | Introduction to Psychology <sup>1</sup>                                      | 3           | -             |
| GE-B 211                  | Contemporary Economics <sup>1</sup>  | -           | 3             |
| GE-C                      | Humanities (select)  | 3           | 3             |
| GE-E                      | Human Health and Well Being (select)   | -           | 1             |
| GE-A, B, C                | (select)   | -           | 3             |
| F&N 100                   | Fundamentals of Nutrition  | 3           | -             |
| Electives                 |  | <u>6</u>    | <u>3</u>      |
|                           |  | <u>15</u>   | <u>16</u>     |

<sup>1</sup> Required General Education courses.

Third and Fourth Years

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

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

**DENTAL HYGIENE**  
 School of Technical Careers  
 (Associate in Applied Science)

Catherine Jensen  
 Program Coordinator  
 Telephone - 618-536-6682  
 STC Building, Room 18D

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. Colorado allows dental hygienists to own and operate their own businesses.

This program is fully accredited by the Council on Dental Education of the American Dental Association. Available facilities restrict first-year enrollment to 50 students. Interested persons should contact New Student Admission Services and the dental hygiene admissions clerk. Special application materials are included in requirements for admission to the program.

All application materials to the University and to the program for Fall 1988 should be on file by January, 1988. Individual applications will be reviewed as they become complete. Applications are reviewed until the class is filled. The earlier a candidate has submitted all necessary information, the greater the opportunity for acceptance.

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

| First Year |                                   | Fall | Spring |
|------------|-----------------------------------|------|--------|
| 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      |
| DII 211a   | Seminar                           | -    | 1      |
| DH 218a    | Dental Radiology                  | -    | 2      |
| DH 226     | Anatomy of the Head and Neck      | -    | 2      |
|            |                                   | 20   | 19     |

Summer Session (8 weeks)

|         |                       |   |  |
|---------|-----------------------|---|--|
| DH 209  | Dental Hygiene Clinic | 3 |  |
| DH 211b | Seminar               | 1 |  |
| DH 217  | Dental Nutrition      | 2 |  |
| DH 218b | Dental Radiology      | 2 |  |
|         |                       | 8 |  |

| Second Year    |  | Fall | Spring |
|----------------|--|------|--------|
| 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      |
| GE-B 108       | The Sociological Perspective                               | -    | 3      |
|                |  | 19   | 17     |

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**  
 School of Technical Careers  
 (Associate in Applied Science)

Dennis Laake  
 Program Coordinator  
 Telephone-618-536-6682  
 Ext. 255  
 STC Building, Room 18B

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.

| First Year  |   | Fall | Spring |
|-------------|---|------|--------|
| 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 I                               | 4.5  | -      |
| DT 103b*    | Complete Dentures II                              | -    | 4.5    |
| DT 104a*    | Removable Partial Dentures I                      | 4.5  | -      |
| DT 104b*    | Removable Partial Dentures II                     | -    | 4.5    |
| DT 113a     | Science of Dental Materials                       | -    | 2      |
| DT 128      | Oral Anatomy                                      | -    | 1      |
| DT 143      | Orientation to Dental Technology                  | 1    | -      |
| DT 110*     | Dental Occlusion                                  | -    | 4.5    |
|             |   | 20.5 | 19.5   |
| Second Year |   | Fall | Spring |
| GE-D 152    | Interpersonal Communication                       | -    | 3      |
| DT 113b     | Science of Dental Materials                       | 2    | -      |
| DT 202*     | Dental Orthodontics & Pedodontics                 | 4.5  | -      |
| DT 204a*    | Crown and Bridge I                                | 4.5  | -      |
| DT 204b*    | Crown and Bridge II                               | 4.5  | -      |
| DT 205      | Dental Laboratory Management                      | 1    | -      |
| DT 206a*    | Dental Ceramics I                                 | -    | 4.5    |
| DT 206b*    | Dental Ceramics II                                | -    | 4.5    |
| DT 210*     | Applied Prosthodontics                            | -    | 4.5    |
| STC 102     | Technical Writing                                 | 2    | -      |
| STC 120     | Fiscal Aspects of Technical Careers I             | -    | 3      |
|             |   | 18.5 | 19.5   |

\*Five-week module.

Dental Technology As A Major

This program is the second oldest dental technology program in the country, and is the first of its kind in the state of Illinois to be accredited by the Commission on Dental Accreditation 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                         | -           | 4             |
|                      |   | <u>15</u>   | <u>15</u>     |

| <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             |
|                               |                                      | <u>16</u>   | <u>16</u>     |

### 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)

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

Dr. Billy Dixon, Chairperson  
Curriculum, Instruction & Media  
Telephone 618-536-2441  
Wham Building, Room 327

Within a major in Early Childhood, the curriculum offers a specialization in Child and Family Services. These courses offer basic background leading to 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             |
| *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 - 618-536-2441  
Wham Building, Room 327

Jacquelyn Bailey  
Chief Academic Advisor  
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) <sup>1</sup>                                  | 3           | 3             |
| GE-B               | Social Studies (select) <sup>1</sup>                           | 3           | 3             |
| GE-C 101           | Introduction to Art  | 3           | -             |
| GE-C               | Fine Arts from General Education                               | -           | 3             |
| GE-D 101           | English Composition <sup>2</sup>                               | 3           | -             |
| GE-D 152 or 153    | Interpersonal Communication or<br>Public Speaking <sup>2</sup> | 2           | -             |
| GE-D 117           | Expository Writing <sup>2</sup>                                | -           | 2             |
| GE-E               | P.E. Activity <sup>2</sup>                                     | 1           | 1             |
| GE-E 201           | Healthful Living <sup>2</sup>                                  | -           | 2             |
| MUS 101            | Music Fundamentals <sup>2</sup>                                | -           | 2             |
|                    |  | <u>15</u>   | <u>16</u>     |
| <u>Second Year</u> |  | <u>Fall</u> | <u>Spring</u> |
| GE-A               | Science (select) <sup>1</sup>                                  | 3           | 3             |
| GE-B 202           | Introduction to Psychology <sup>2</sup>                        | 3           | -             |
| GE-B 301           | History of U.S. <sup>2</sup>                                   | -           | 3             |
| GE-C               | Literature (select) <sup>2</sup> (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 <sup>2</sup>                                | -           | 3             |
|                    |  | <u>16</u>   | <u>15</u>     |

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

<sup>2</sup>Required 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 EDUCATION  
(Preschool/Primary)  
College of Education  
(Bachelor of Science)

Dr. Billy Dixon, Chairperson  
Teacher Education Services  
Telephone - 618-536-2441  
Wham Building, Room 327

Jacquelyn Bailey  
Chief Academic Advisor  
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) <sup>1</sup>                        | 3           | 3             |
| GE-B 202          | Introduction to Psychology <sup>3</sup>              | 3           | -             |
| GE-C              | Humanities (Art & Music are required) <sup>2,3</sup> | -           | 3             |
| GE-D 101          | English Composition <sup>3</sup>                     | 3           | -             |
| GE-D 117 or 119   | Expository or Creative Writing <sup>3</sup>          | -           | 2             |
| GE-D 107          | Intermediate Algebra                                 | 3           | -             |
| GE-D 152 or 153   | Interpersonal Communication or Public Speaking       | -           | 3             |
| GE-E              | P.E. Activity <sup>3</sup>                           | -           | 2             |
| GE-E 236          | Nutritional Ecology of Man <sup>3</sup>              | -           | 2             |
| MUS 101           | Music Fundamentals <sup>3</sup>                      | 2           | -             |
| Elective          |  | <u>1</u>    | <u>-</u>      |
|                   |  | 15          | 15            |

| <u>Second Year</u> |  | <u>Fall</u> | <u>Spring</u> |
|--------------------|--|-------------|---------------|
| GE-A               | Science (select) <sup>1</sup>                    | 3           | -             |
| GE-B 212 or 301    | American Government or U.S. History <sup>3</sup> | 3           | -             |
| GE-B               | Social Science (select) <sup>1</sup>             | -           | 3             |
| GE-C               | Humanities (select) <sup>1</sup>                 | 3           | 3             |
| CIM 227            | Marriage and Family Living                       | 3           | -             |
| CIM 237            | Early Child Development I                        | 3           | -             |
| F&N 215            | Fundamentals of Nutrition                        | -           | 3             |
| Psyc 301           | Child Psychology                                 | -           | 3             |
| Elective           |  | <u>-</u>    | <u>3</u>      |
|                    |  | 15          | 15            |

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

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

<sup>3</sup>Teacher certification requirements include GE-B 202; GE-B 212 or 301; MUS 101; an art class; GE-D 101; GE-D 117 or 119; GE-E 236; 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.

**ECONOMICS**  
College of Liberal Arts  
(Bachelor of Arts)

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

The Economics major consists of 33 semester hours. Of these, 18 hours are required courses. With 15 hours remaining, a student can choose courses in the following areas: Comparative Systems, Economic Development, Economic History, Economic Theory, Econometrics, Human Resources, International Economics, Money and Banking, Political Economy, Public Finance. The flexibility permitted by the electives available makes possible a program tailored to meet the needs of individual career preparation plans.

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

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

<sup>2</sup> The mathematics requirement for economics majors is Math 117 or 140 or 150. This also fulfills a Liberal Arts requirement.

<sup>3</sup> Two semesters (which is generally eight hours) of a foreign language are required for all Liberal Arts students who entered college anywhere Fall 1978 or later. However, four of these hours may be used for GE-C credit.

<sup>4</sup> Part of Economics major requirement. Economics 214 also satisfies part of GE-B requirements.

<sup>5</sup> Elective hours should be used in the following ways: 1) students may explore areas of interest or 2) arrange a program tailored to meet specific career objectives. For example students interested in a career in business or government should consider taking elective courses in accounting and other business subjects and computer science. Those considering graduate study in economics are encouraged to take several courses in mathematics.

**Economics As A Major**

Students majoring in economics find jobs in various areas of business, including banking and finance, industry, trade, and utilities to name a few. Many economics majors go to work for government agencies at all levels--federal, state, and local. For example, several SIUC graduates with economics majors have been hired by the Illinois Bureau of the Budget and other state agencies. Majoring in economics is also widely considered to be excellent preparation for graduate study in business, law or any of the social sciences. The requirements for a major in economics are very flexible with 26-33 hours of electives.

**To Counselors**

We recommend that high 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.

## ELECTRICAL ENGINEERING

College of Engineering and Technology  
(Bachelor of Science)

Dr. Vernold K. Feiste  
Telephone - 618-536-2364  
Technology Building, Room B118

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    | -      |
| ENGR 222       | Computational Methods for Engineers                     | -    | 2      |
| GE-B           | Social Sciences (select) <sup>1,2</sup>                 | -    | 3      |
| GE-C           | Humanities (select) <sup>1,2</sup>                      | 3    | 3      |
| GE-D 101 & 118 | English Comp. & Technical Report Writing <sup>1,2</sup> | 3    | 2      |
| GE-E           | Human Health and Well Being (select) <sup>1</sup>       | -    | 2      |
| CHEM 222a,c    | Intro. to Chemical Principles and Lab <sup>3</sup>      | 4    | 3      |
| MATH 150, 250  | Calculus I & II <sup>3</sup>                            | 4    | 4      |
|                |   | 17   | 19     |
| Second Year    |   | Fall | Spring |
| ENGR 225       | Introduction to Digital Systems                         | 3    | -      |
| ENGR 235       | Electric Circuits                                       | -    | 3      |
| ENGR 260a      | Mechanics of Rigid Bodies (Statics)                     | 2    | -      |
| GE-A 115       | Introductory Biology <sup>2</sup>                       | 3    | -      |
| GE-B           | Social Studies (select) <sup>1,2</sup>                  | -    | 3      |
| GE-C           | Humanities (select) <sup>1,2</sup>                      | -    | 3      |
| MATH 251, 305  | Calculus III and Differential Equations I               | 3    | 3      |
| PHYS 205a,b    |   |      |        |
| 255a,b         | University Physics and Lab <sup>3</sup>                 | 4    | 4      |
|                |   | 18   | 16     |

<sup>1</sup> See General Education for the Transfer Student. Transfer students without a baccalaureate-oriented associate degree will be required to take some specific general education courses. It is recommended that such students contact the College of Engineering and Technology Advisement Office for information on approved General Education courses.

<sup>2</sup> Due to accreditation standards, those students transferring with a baccalaureate-oriented associate degree must have 16 semester hours of Social Sciences and Humanities; six or seven semester hours of oral and written communications, and 18 semester hours of basic science. A 300 level Social Science or Humanities course must be taken at SIUC or at another senior level institution. This 300 level course must build on a discipline already completed. Because of this accreditation requirement, in most cases, a maximum of 13 semester hours of Social Sciences and Humanities will be counted toward this 16 hour requirement.

<sup>3</sup> Substitutes 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 engineering used in determining the major grade point averages are courses with the prefix ENGR, CE, EE, EM, ME, and MNGE. This is part of the College's Retention Program.

Transfer students from community colleges or other institutions should have strong backgrounds in the physical sciences, mathematics, social sciences, and humanities. Students are encouraged to complete specific freshman and sophomore course requirements which include 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 pre-requisite 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.

ELECTRONICS MANAGEMENT

School of Technical Careers  
(Bachelor of Science)

Dr. James Thiesse, 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 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 SIUC 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                            | -  | 3  |
| GE-E         | Human Health & Well Being (select) <sup>1</sup> | 2  | -  |
| Electives or | Technical Specialization                        | 7  | 5  |
|              |   | 18 | 17 |

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 |

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  |
|         |  | 15 |

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.



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

William G. Shupe  
Program Coordinator  
Telephone-618-536-6682  
Ext. 249  
STC Building, Room 203

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 electronics.

Students will gain a thorough understanding of AC-DC and active element circuits so that they can design, construct, test and analyze new types of circuitry. They will learn digital circuits and CAD as well as industrial systems to include Robotics in a theory-laboratory situation where they will develop the ability to solve problems and report test results in data sheets, graphs and technical papers. They will use diagnostic analysis to troubleshoot and repair electronics equipment.

| First Year |                                 | Fall | Spring |
|------------|---------------------------------|------|--------|
| 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      |
|            |                                 | 18   | 20     |

| Second Year                       |   | Fall | Spring |
|-----------------------------------|---|------|--------|
| STC 102 or<br>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<br>CS 202 or<br>CS 212 | Computing for Business Administration or<br>Intro to Computer Programming or<br>Intro to Business Computing | -    | 3      |
|                                   |   | 18   | 16     |

Electronics Technology As A Major

Graduates are employed by major corporations such as: General Electric, Emerson Electric, AT&T Bell Research Laboratories, IBM, General Tire and Rubber Company, Digital Equipment Corporation, Texas Instruments, Rockwell, General Telephone (Automatic Electric), Motorola, McDonnell-Douglas and many other major electronics companies. 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, GE-FANUC, 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 SIUC to ensure all skills are obtained that are expected in the advance electronics courses.

Representative First Job Titles: Electronics Technician, Bench Technician, Repair Analysis Technician, Bio-Medical Technician, 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 - 618-536-2441  
Wham Building, Room 327

Jacquelyn Bailey  
Chief Academic Advisor  
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) <sup>1</sup>                          | 3           | 3             |
| GE-B               | Social Studies (select) <sup>1</sup>                   | 3           | 3             |
| GE-C               | Humanities, Fine Arts (select) <sup>1,2</sup>          | 3           | 3             |
| GE-D 101           | English Composition <sup>2</sup>                       | 3           | -             |
| GE-D 117           | Expository Writing <sup>2</sup>                        | -           | 2             |
| GE-D 152 or 153    | Interpersonal Communication or                         |             |               |
|                    | Public Speaking <sup>2</sup>                           | 3           | -             |
|                    | P.E. Activity <sup>2</sup>                             | 2           | -             |
| GE-E               | Healthful Living <sup>2</sup>                          | -           | 2             |
| LANGUAGE ARTS      | (select) <sup>2</sup>                                  | -           | 3             |
|                    |  | <u>17</u>   | <u>16</u>     |
| <u>Second Year</u> |  | <u>Fall</u> | <u>Spring</u> |
| GE-A               | Science (select) <sup>1</sup>                          | 3           | 2             |
| GE-B 202           | Introduction to Psychology <sup>2</sup>                | 3           | -             |
| GE-B 301           | History of U.S. <sup>2</sup>                           | -           | 3             |
| GE-C               | Literature (select) <sup>2</sup> (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) <sup>2,3</sup>               |             |               |
| GE-B 212           | Introduction to American Government                    |             |               |
|                    | and Politics <sup>2</sup>                              | 3           | -             |
|                    |  | <u>15</u>   | <u>15</u>     |

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

<sup>2</sup>Teacher certification requirements.

<sup>3</sup>Eight hours must be taken for an area of interest in one of the following: science, language arts, social studies, math, media, fine arts, or health and physical 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) <sup>1,2</sup>                 | -    | 3      |
| GE-C           | Humanities (select) <sup>1,2</sup>                      | 3    | 3      |
| GE-D 101 & 118 | English Comp. & Technical Report Writing <sup>1,2</sup> | 3    | 2      |
| GE-E           | Human Health and Well Being (select) <sup>1</sup>       | -    | 2      |
| CHEM 222a,c    | Intro. to Chemical Principles and Lab <sup>3</sup>      | 4    | 3      |
| MATH 150, 250  | Calculus I & II <sup>3</sup>                            | 4    | 4      |
|                |   | 17   | 17     |
| Second Year    |   | Fall | Spring |
| ENGR 222       | Computational Methods for Engineers                     | 2    | -      |
| ENGR 260a,b    | Mechanics of Rigid Bodies (Statics&Dynamics)            | 2    | 3      |
| ENR A 115      | Introductory Biology <sup>2</sup>                       | 3    | -      |
| GE-B           | Social Sciences (select) <sup>1,2</sup>                 | -    | 3      |
| GE-C           | Humanities (select) <sup>1,2</sup>                      | -    | 3      |
| GE-D 153       | Public Speaking <sup>1,2</sup>                          | 3    | -      |
| MATH 251, 305  | Calculus III and Differential Equations I               | 3    | 3      |
| PHYS 205a,b    |   |      |        |
| 255a,b         | University Physics and Lab <sup>3</sup>                 | 4    | 4      |
|                |   | 17   | 16     |

<sup>1</sup>See General Education for the Transfer Student. Transfer students without a baccalaureate-oriented associate degree will be required to take some specific general education courses. It is recommended that such students contact the College of Engineering and Technology Advisement Office for information on approved General Education courses.

<sup>2</sup>Due to accreditation standards, those students transferring with a baccalaureate-oriented associate degree must have 16 semester hours of Social Sciences and Humanities; six or seven semester hours of oral and written communications, and 18 semester hours of basic science. A 300 level Social Science or Humanities course must be taken at SIUC or at another senior level institution. This 300 level course must build on a discipline already completed. Because of this accreditation requirement, in most cases, a maximum of 13 semester hours of Social Sciences and Humanities will be counted toward this 16 hour requirement.

<sup>3</sup>Substitutes 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 engineering used in determining the major grade point averages are courses with the prefix ENGR, CE, EE, EM, ME, and MNGE. This is part of the College's Retention Policy.

Transfer students from community colleges or other institutions should have strong backgrounds in the physical sciences, mathematics, social sciences, and humanities. Students are encouraged to complete specific freshman and sophomore course requirements which include 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  
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.

| <u>First Year</u>  |   | <u>Fall</u> | <u>Spring</u> |
|--------------------|---|-------------|---------------|
| ENGR 100           | Introduction to Engineering                             | 3           | -             |
| GE-B               | Social Sciences (select) <sup>1,2</sup>                 | -           | 3             |
| GE-C               | Humanities (select) <sup>1,2</sup>                      | 3           | 3             |
| GE-D 101 & 118     | English Comp. & Technical Report Writing <sup>1,2</sup> | 3           | 2             |
| GE-E               | Human Health and Well Being (select) <sup>1</sup>       | -           | 2             |
| CHEM 222a,c        | Intro. to Chemical Principles and Lab <sup>3</sup>      | 4           | 3             |
| MATH 150, 250      | Calculus I & II <sup>3</sup>                            | 4           | 4             |
|                    |   | 17          | 17            |
| <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 115           | Introductory Biology <sup>2</sup>                       | 3           | -             |
| GE-B               | Social Studies (select) <sup>1,2</sup>                  | -           | 3             |
| GE-C               | Humanities (select) <sup>1,2</sup>                      | -           | 3             |
| GE-D 153           | Public Speaking <sup>1,2</sup>                          | 3           | -             |
| MATH 251, 305      | Calculus III and Differential Equations I               | 3           | 3             |
| PHYS 205a,b        |   |             |               |
| 255a,b             | University Physics and Lab <sup>3</sup>                 | 4           | 4             |
|                    |   | 17          | 16            |

<sup>1</sup> See General Education for the Transfer Student. Transfer students without a baccalaureate-oriented associate degree will be required to take some specific general education courses. It is recommended that such students contact the College of Engineering and Technology Advisement Office for information on approved General Education courses.

<sup>2</sup> Due to accreditation standards, those students transferring with a baccalaureate-oriented associate degree must have 16 semester hours of Social Sciences and Humanities; six or seven semester hours of oral and written communications, and 18 semester hours of basic science. A 300 level Social Science or Humanities course must be taken at SIUC or at another senior level institution. This 300 level course must build on a discipline already completed. Because of this accreditation requirement, in most cases, a maximum of 13 semester hours of Social Sciences and Humanities will be counted toward this 16 hour requirement.

<sup>3</sup> Substitutes 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 engineering used in determining the major grade point averages are courses with the prefix ENGR, CE, EE, EM, ME, and MNGE. This is part of the college's Retention Policy.

Transfer students from community colleges or other institutions should have strong backgrounds in the physical sciences, mathematics, social sciences, and humanities. Students are encouraged to complete specific freshman and sophomore course requirements which include 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.

Students interested in this major should contact Dr. Albert Kent.

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)  
 College of Engineering and Technology  
 (Bachelor of Science)

Dr. Joseph Barbay  
 Telephone - 618-536-3396  
 Technology Bldg., Room D107

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

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

The CET specialization is for students interested in careers with construction industries, state and federal highway departments, architectural/engineering consulting firms, coal companies, railroads, and environmental agencies. Graduates may participate in such civil engineering activities as surveying and the design and construction of airports, bridges, highways, dams, power plants, pipelines, mines, water and wastewater treatment plants, residential complexes and railroads.

| <u>First Year</u>      |                                      | <u>Fall</u> | <u>Spring</u>   |
|------------------------|--------------------------------------|-------------|-----------------|
| GE-A 115, 117 or 118   | Biological Science                   | -           | 3 or 4          |
| GE-B                   | Social Science (select)              | 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           | -               |
| ET 103                 | Engineering Drawing I                | -           | 3               |
| MATH 111               | Pre-Calculus <sup>1</sup>            | 5           | -               |
| MATH 150               | Calculus I                           | -           | 4               |
|                        |                                      | <u>16</u>   | <u>15 or 16</u> |
| <u>Second Year</u>     |                                      | <u>Fall</u> | <u>Spring</u>   |
| GE-C                   | Humanities (select)                  | -           | 3               |
| GE-D 153               | Public Speaking                      | 3           | -               |
| ET 202                 | Structural Graphics                  | 2           | -               |
| ET 260a                | Principles of Mechanics, Statics     | 3           | -               |
| ET 390                 | Cost Estimating                      | -           | 3               |
| MATH 250               | Calculus II                          | 4           | -               |
| PHYS 203a, b & 253a, b | College Physics and Lab <sup>1</sup> | 4           | 4               |
| ENGR 222               | Computational Methods                | -           | 2               |
| MGT 202                | Business Communications              | -           | 3               |
|                        |                                      | <u>16</u>   | <u>15</u>       |

<sup>1</sup>Substitutes for General Education.

Engineering Technology As A Major with a specialization in Civil Engineering Technology.

To remain in the College, students are subject to the requirement of maintaining a 2.00 accumulative grade point average in all of their major courses. Major courses in engineering technology used in determining the major grade point averages are courses with the prefix ET. This is part of the college's Retention Policy.

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

For the Bachelor's degree in CET the requirements are: 27 semester hours of mathematics and basic science; 30 semester hours of communications, humanities and social studies; 67 semester hours of required and elective technology courses. A minimum of 30 semester hours in Engineering Technology must be taken in residence at SIU.

Career and Employment Opportunities in CET

Employment opportunities for graduates with B.S. degrees in Civil Engineering Technology are excellent. Graduates are employed by architectural/engineering firms, construction firms, state and local highway departments, and mining companies.



## ENGINEERING TECHNOLOGY

(Electrical)

College of Engineering and Technology  
(Bachelor of Science)

Dr. Joseph Barbay  
Telephone - 618-536-3396  
Technology Bldg., Room D107

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

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

The EET program is designed for students interested in careers in electronics, manufacturing, power generation, communication industries, and computer technologies. Students study electrical circuits, logic design, communications, microprocessors, and microcomputers. Other courses prepare them for participation in the planning and installation of power distribution systems and the operation and maintenance of complex electrical systems.

| First Year              |                                      | Fall | Spring   |
|-------------------------|--------------------------------------|------|----------|
| GE-A 115, 117<br>or 118 | Biological Science                   | -    | 3 or 4   |
| GE-B                    | Social Science (select)              | 3    | 3        |
| GE-C                    | Humanities (select)                  | 3    | 3        |
| GE-D 101                | English Composition                  | 3    | -        |
| GE-E                    | Human Health and Well Being (select) | 2    | -        |
| GE-D 118                | Technical Report Writing             | -    | 2        |
| MATH 109                | Trigonometry <sup>1</sup>            | -    | 3        |
| MATH 108                | College Algebra <sup>1</sup>         | 3    | -        |
|                         |                                      | 14   | 14 or 15 |
| Second Year             |                                      | Fall | Spring   |
| CHEM 115                | Chemistry <sup>1</sup>               | 3    | -        |
| GE-C                    | Humanities (select)                  | -    | 3        |
| GE-E                    | Human Health and Well Being (select) | 2    | -        |
| ET 245a                 | Electrical Systems for Industry      | -    | 4        |
| ET 238                  | Digital Electronics                  | 4    | -        |
| MATH 150                | Calculus I                           | 4    | -        |
| MATH 250                | Calculus II                          | -    | 4        |
| PHYS 203a,b &<br>253a,b | College Physics and Lab <sup>1</sup> | 4    | 4        |
|                         |                                      | 17   | 15       |

<sup>1</sup>Substitutes for General Education.

### Engineering Technology As A Major with a specialization in Electrical Engineering Technology.

To remain in the College, students are subject to the requirements of maintaining a 2.00 accumulative grade point average in all of their major courses. Major courses in engineering technology used in determining the major grade point averages are courses with the prefix ET. This is part of the college's Retention Policy.

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

For the Bachelor's degree the requirements are: 28 semester hours of mathematics and basic science; 30 semester hours of communications, humanities, and social studies; 67 semester hours of required and elective technology courses; and seven semester hours of specified electives. A minimum of 30 semester hours of Engineering Technology courses must be taken in residence of SIUC.

### Career and Employment Opportunities in EET

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

## ENGINEERING TECHNOLOGY

(Mechanical)

College of Engineering and Technology  
(Bachelor of Science)

Dr. Joseph Barbay

Telephone - 618-536-3396

Technology Bldg., Room D107

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

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

The MET program is designed to prepare graduates for a career in power and manufacturing industries. Graduates are provided with a diverse background in several mechanical technologies, focusing on such areas as fluid power, thermal science, computer-aided drawing, mechanical design technology, and mechanical aspects of manufacturing systems.

| First Year    |                                      | Fall      | Spring          |
|---------------|--------------------------------------|-----------|-----------------|
| GE-A 115, 117 |                                      |           |                 |
| or 118        | Biological Science                   | -         | 3 or 4          |
| GE-B          | Social Science (select)              | -         | 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         | -               |
| ET 103,104    | Engineering Drawing I,II             | 3         | 3               |
| MATH 111      | Pre-Calculus <sup>1</sup>            | 5         | -               |
| MATH 150      | Calculus I                           | -         | 4               |
|               |                                      | <u>16</u> | <u>15 or 16</u> |

| Second Year             |   | Fall      | Spring    |
|-------------------------|---|-----------|-----------|
| CHEM 115                | Chemistry <sup>1</sup>                      | 3         | -         |
| GE-D 153                | Public Speaking                             | -         | 3         |
| GE-E                    | Human Health and Well Being (select)        | 2         | -         |
| ET 245a                 | Electrical Systems for Industry             | -         | 4         |
| ET 260a,b               | Principles of Mechanics, Statics & Dynamics | 3         | 3         |
| MATH 250                | Calculus II                                 | 4         | -         |
| PHYS 203a,b &<br>253a,b | College Physics and Lab <sup>1</sup>        | 4         | 4         |
| ENGR 222                | Computational Methods                       | -         | 2         |
|                         |   | <u>16</u> | <u>16</u> |

<sup>1</sup>Substitutes for General Education.

Engineering Technology As A Major with a specialization in Mechanical Engineering Technology.

To remain in the College, students are subject to the requirements of maintaining a 2.00 accumulative grade point average in all of their major courses. Major courses in engineering technology used in determining the major grade point averages are courses with the prefix ET. This is part of the college's Retention Policy.

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

For the Bachelor's degree in MET the requirements are: 27 semester hours of mathematics and basic science; 30 semester hours of communications, humanities, and social studies; 67 semester hours of required and elective technology courses. A minimum of 30 semester hours of Engineering Technology courses must be taken in residence of SIUC.

### Career and Employment Opportunities in MET

Employment opportunities for graduates with B.S. degrees in Mechanical Engineering Technology are excellent. Graduates are employed by electric utilities, manufacturing firms, architectural/engineering firms, and other industries involving mechanical products or equipment.

The English Education major is designed to give the student a thorough background in composition, language, and literature. The various forms of English, American and world literature, contemporary and historic, are studied. The undergraduate major is preparatory for teaching at the secondary level, graduate study, or positions requiring effective communication of ideas.

| <u>First Year</u>      |                                      | <u>Fall</u> | <u>Spring</u> |
|------------------------|--------------------------------------|-------------|---------------|
| GE-A                   | Science (select) <sup>2</sup>        | 3           | -             |
| GE-B 212 or 301        | American Government or U.S. History  | 3           | -             |
| GE-B 202               | Introduction to Psychology           | -           | 3             |
| GE-C                   | Humanities (select) <sup>2</sup>     | 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           | -             |
| Electives <sup>3</sup> |                                      | <u>2</u>    | <u>4</u>      |
|                        |                                      | 16          | 15            |
| <u>Second Year</u>     |                                      | <u>Fall</u> | <u>Spring</u> |
| GE-A                   | Science (select) <sup>2</sup>        | 3           | 3             |
| GE-B                   | Social Studies (select) <sup>2</sup> | -           | 3             |
| GE-C 330               | Classical Mythology                  | -           | 3             |
| GE-D 153               | Public Speaking                      | 3           | -             |
| GE-E 201               | Healthful Living                     | 2           | -             |
| ENG 290                | Intermediate Expository Writing      | 3           | -             |
| Electives <sup>3</sup> |                                      | <u>5</u>    | <u>6</u>      |
|                        |                                      | 16          | 15            |

<sup>1</sup> See also the program under the College of Liberal Arts.

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

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

#### In Addition

GPA 2.50 minimum for Teacher Education Program.

The following specific General Education courses are required for teacher certification (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. Richard Peterson, 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) <sup>1</sup>                         | 3           | 3             |
| GE-B                          | Social Science (select) <sup>1</sup>                  | 3           | 3             |
| GE-C 330                      | Classical Mythology <sup>2</sup>                      | 3           | -             |
| GE-D 101 & 117,<br>118 or 119 | English Composition and Writing (select) <sup>1</sup> | 3           | 2             |
| GE-D 152 or 153               | Interpersonal Communication<br>or Public Speaking     | -           | 3             |
| GE-D 107                      | Intermediate Algebra                                  | -           | 3             |
| GE-E                          | Human Health and Well Being (select) <sup>1</sup>     | <u>2</u>    | <u>2</u>      |
|                               |   | 14          | 16            |
| <u>Second Year</u>            |   | <u>Fall</u> | <u>Spring</u> |
| GE-A                          | Science (select) <sup>1</sup>                         | 3           | -             |
| GE-B                          | Social Science (select) <sup>1</sup>                  | 3           | -             |
| FL                            | Foreign Language <sup>3</sup>                         | 4           | 4             |
| ENG                           | English Literature <sup>2</sup>                       | -           | 3             |
| ENG                           | American Literature <sup>2</sup>                      | 3           | -             |
| MATH or CS                    | Math or Computer Science <sup>4</sup>                 | -           | 3             |
| Elective <sup>5</sup>         |   | <u>3</u>    | <u>4</u>      |
|                               |   | 16          | 14            |

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

<sup>2</sup> Required by the major.

<sup>3</sup> Two semesters (which is generally eight hours) of a foreign language are required for all Liberal Arts students who entered college anywhere Fall 1978 or later. However, four of these hours may be used for GE-C credit.

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

<sup>5</sup> Elective hours should be used to explore areas of interest and to enhance career opportunities; or courses may be selected to satisfy Liberal Arts requirements (see College of Liberal Arts section).

**English As A Major**

A major goal of general education, pre-graduate study and preprofessional specializations is to educate students to write clearly and effectively, to read precisely with insight and understanding and to know the history, the artistry, and the humane values of our linguistic and literary heritage. Students who wish to declare English as a concentration should consult the department's director of undergraduate programs as soon as they know they will major in English. If possible, transfer students should contact a departmental advisor before their first registration at SIUC. Any of the English options may be modified by entry into the departmental honors program.

**Representative First Job Titles:** 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.

ENGLISH  
(Teacher Education)\*  
College of Liberal Arts  
(Bachelor of Arts)

Dr. Richard Peterson  
Chairperson  
Telephone - 618-453-5321  
Faner 2370

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) <sup>1</sup>                                     | 3                 | 3                 |
| GE-B                          | Social Science (select) <sup>1</sup>                              | 3                 | -                 |
| GE-B 202                      | Introduction to Psychology <sup>2</sup>                           | -                 | 3                 |
| GE-C                          | Humanities (select) <sup>1</sup>                                  | 3                 | -                 |
| GE-D 101 & 117,<br>118 or 119 | English Composition and Writing (select) <sup>1,2</sup>           | 3                 | 2                 |
| GE-D 153                      | Public Speaking <sup>2</sup>                                      | -                 | 3                 |
| GE-D                          | Math (select) <sup>1</sup>  | -                 | 4                 |
| GE-E                          | Human Health and Well Being--activity<br>(select) <sup>1,2</sup>  | -                 | 2                 |
| GE-E 201                      | Healthful Living <sup>2</sup>                                     | <u>2</u><br>14    | <u>-</u><br>17    |
| <u>Second Year</u>            |   | <u>Fall</u>       | <u>Spring</u>     |
| GE-B 212, 300 or<br>301       | Intro. to Am. Gov't or U.S. History                               | 3 (4)             | -                 |
| GE-A                          | Science (select) <sup>1</sup>                                     | 3                 | -                 |
| GE-C or FL                    | Humanities (select) <sup>1</sup> or Foreign Language <sup>3</sup> | 3(4)              | 3(4)              |
| ENG                           | English Literature <sup>4</sup>                                   | -                 | 3                 |
| ENG                           | American Literature <sup>4</sup>                                  | 3                 | -                 |
| MATH or CS                    | Math or Computer Science <sup>5</sup>                             | -                 | 3                 |
| Elective <sup>6</sup>         |   | <u>3</u><br>15-17 | <u>4</u><br>13-14 |

\*See also the program under the College of Education.

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

<sup>2</sup> Required for teacher certification.

<sup>3</sup> Two semesters (which is generally eight hours) of a foreign language are required for all Liberal Arts students who entered college anywhere Fall 1978 or later. However, four of these hours may be used for GE-C credit.

<sup>4</sup> Required by the major

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

<sup>6</sup> Elective hours should be used to explore areas of interest and to enhance career opportunities; or courses may be selected to satisfy Liberal Arts requirements (see College of Liberal Arts section).

English As A Major

Students who wish to declare English as a concentration should consult the department's director of undergraduate programs as soon as they know they will major in English. If possible, transfer students should contact a departmental advisor before their first registration at SIUC.

Students interested in this program should make themselves aware of the requirements for entering the Teacher Education Program, explained elsewhere in this text. The Department of English requires a 2.50 G.P.A. in the major and successful ("C" or better) completion of English 300, Introduction to Language Analysis, for recommendation to Unconditional Status in the Teacher Education Program.

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



ENGLISH  
(Writing)  
(Creative Writing)  
College of Liberal Arts  
(Bachelor of Arts)

Dr. Richard Peterson  
Chairperson  
Telephone 618-453-5321  
Faner 2370

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

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

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

<sup>2</sup>Required by the major. The student should select two courses from 281, 282, and 283.

<sup>3</sup>Two semesters (which is generally eight hours) of a foreign language are required for all Liberal Arts students who entered college anywhere Fall 1978 or later. However, four of these hours may be used for GE-C credit.

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

<sup>5</sup>Elective hours should be used to explore areas of interest and to enhance career opportunities; or courses may be selected to satisfy Liberal Arts requirements (see College of Liberal Arts section).

### English As A Major

Students interested in general writing and creative writing are strongly urged to confer with the director of undergraduate programs in English as soon as possible. The unique design of this specialization requires a great deal of advisement and consultation in order to insure that students go through the proper sequence of courses. If possible, transfer students should contact a departmental advisor before their first registration at SIUC.

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

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

## FINANCE

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

Dr. Iqbal Mathur, Chairperson  
Telephone - 618-453-2459  
Henry J. Rehn Hall, Room 134

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) <sup>1</sup>                       | 3           | 3             |
| GE-B                    | Social Science (select) <sup>1</sup>                | 3           | -             |
| *GE-B 202               | Introduction to Psychology                          | -           | 3             |
| GE-C-3                  | Humanities (select) <sup>1</sup>                    | 3           | -             |
| GE-C                    | Humanities (select) <sup>1</sup>                    | -           | 3             |
| *GE-D 101               | English Composition                                 | 3           | -             |
| GE-D 117, 118<br>or 119 | Expository, Technical Report<br>or Creative Writing | -           | 2             |
| ECON 208                | Economic and Business Statistics                    | -           | 3             |
| *MATH 139-3             | Finite Mathematics                                  | 3           | -             |
|                         |   | <u>15</u>   | <u>14</u>     |

| <u>Second Year</u>    |   | <u>Fall</u> | <u>Spring</u> |
|-----------------------|---|-------------|---------------|
| GE-A                  | Science (select) <sup>1</sup>   | -           | 3             |
| *GE-D 152 or<br>153   | Public Speaking or Interpersonal<br>Communication                                     | -           | 3             |
| GE-E-2                | Human Health & Well Being (select) <sup>1</sup>                                       | 2           | -             |
| *ACCT 220, 230        | Financial, Managerial Accounting  | 3           | 3             |
| *CS 212 or<br>CIP 229 | Intro. to Computer Programming (Pascal) or<br>Computing for Business Admin. (Fortran) | -           | 3             |
| *ECON 214, 215        | Economics, Macro, Micro <sup>2</sup>  | 3           | 3             |
| *MATH 140-4           | Short Course in Calculus  | 4           | -             |
| *MGT 202              | Business Communications   | 3           | -             |
|                       |   | <u>15</u>   | <u>15</u>     |

\*Required course for a major in Accounting.

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

<sup>2</sup>ECON 214 or 215 counts toward 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 and the 40% rule.

Representative First Job Titles: Internal Auditor, Finance Administrator, Financial Analyst, Trust Administrator, Wage-Salary Administrator, Systems Analyst, Inventory Controller, Credit Analyst, Investment Analyst, Operations Research Analyst, Budget Administrator, Consumer Researcher, Controller, Credit Manager, Finance Officer, Financial Management Intern, Bursar Assistant (College), Grant Coordinator (College), Assistant Fiscal Officer, Assistant to the Paymaster, Payroll and Assignment Supervisor, Assistant to the Director of Finance, Head Cashier, Financial Planning Agent, Loan Administrator.

FIRE SCIENCE MANAGEMENT

Ronald Reeder  
School of Technical Careers  
Telephone - 618-536-6682  
(Bachelor of Science)  
STC Building, Room 126

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 SIUC general education requirements.

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

A minimum of 30 semester hours in program core and major courses must be taken with SIUC, 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:<br>ATS 332, 383, 421                                | 12        |
| Fire Science Management Major Requirements: 15 hours selected<br>from ATS 387, 402, 412, POLS 340, 443, IT 465 | 15        |
| 12 hours of internship, independent study, or approved<br>equivalent   | 12        |
| Fire Science Management Major Electives:<br>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 <sup>1</sup>  | 3           | -             |
| GE-B 104 or 108   | The Human Experience: Anthropology or Sociological Perspective <sup>1</sup> | 3           | -             |
| GE-C              | Humanities (select) <sup>2</sup>  | 3           | 3             |
| GE-D 101          | English Composition   | 3           | -             |
| GE-D 118 or 119   | Technical Report Writing or Creative Writing <sup>1</sup>                   | -           | 2             |
| GE-D 107          | Intermediate Algebra <sup>1</sup>   | -           | 3             |
| GE-D 152 or 153   | Interpersonal Communication or Public Speaking                              | 3           | -             |
| GE-E              | Human Health and Well Being (select) <sup>2</sup>                           | 1           | -             |
| F&N 215           | Fundamentals of Nutrition   | -           | 2             |
| CIP 109           | Computer Information Processing   | -           | 3             |
|                   |   | <u>16</u>   | <u>13</u>     |

| <u>Second Year</u> |   | <u>Fall</u> | <u>Spring</u> |
|--------------------|---|-------------|---------------|
| GE-B 202           | Introduction to Psychology <sup>1</sup>           | 3           | -             |
| GE-B 211           | Contemporary Economics <sup>1</sup>               | -           | 3             |
| GE-C               | Humanities (select) <sup>2</sup>                  | 3           | -             |
| GE-A, B, C         | (select) <sup>2</sup>                             | -           | 3             |
| GE-E               | Human Health and Well Being (select) <sup>2</sup> | 2           | 1             |
| CHEM 222a,b        | Chemistry <sup>3</sup>                            | 4           | 4             |
| CIM 237            | Early Child Development I                         | 3           | -             |
| MICR 301           | Principles of Microbiology                        | -           | 4             |
|                    |   | <u>15</u>   | <u>17</u>     |

<sup>1</sup>Required General Education courses.

<sup>2</sup>Refer to section on General Education for the Transfer Student.

<sup>3</sup>Chemistry 222a counts as GE-A credit. The chemistry requirement may be met by Chemistry 222a,b or 380a,b. Chemistry 140a,b may be taken in the management option only.

## Third and Fourth Years

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 <sup>1</sup>                                  | 3           | -             |
| GE-B                          | Social Sciences (select) <sup>2,4</sup>               | 3           | 3             |
| GE-C                          | Humanities (select) <sup>2</sup>                      | -           | 3             |
| GE-D 101 & 117,<br>118 or 119 | English Composition and Writing (select) <sup>2</sup> | 3           | 2             |
| GE-D 107                      | Intermediate Algebra                                  | 3           | -             |
| GE-D 152 or 153               | Interpersonal Communication or<br>Public Speaking     | -           | 3             |
| GE-E                          | Human Health and Well Being (select) <sup>2</sup>     | 2           | 1             |
| CHEM 140a                     | Chemistry <sup>3</sup>                                | -           | 4             |
|                               |   | 15          | 16            |

| <u>Second Year</u> |   | <u>Fall</u> | <u>Spring</u> |
|--------------------|---|-------------|---------------|
| GE-B 202           | Introduction to Psychology <sup>1</sup>           | -           | 3             |
| GE-C               | Humanities (select) <sup>2</sup>                  | 3           | 3             |
| GE-A/B/C           | Select <sup>2</sup>                               | 2           | -             |
| GE-E               | Human Health and Well Being (select) <sup>2</sup> | 2           | -             |
| ACCT 220, 230      | Principles of Accounting I & II                   | 3           | 3             |
| F&N 215            | Fundamentals of Nutrition                         | 2           | -             |
| MICR 301           | Principles of Microbiology                        | -           | 4             |
| CIP 109            | Computer Information Processing                   | 3           | -             |
| Electives          |   | -           | 3             |
|                    |   | 16          | 16            |

<sup>1</sup>Required General Education courses.

<sup>2</sup>Refer to the section General Education for the Transfer Student.

<sup>3</sup>Chemistry 140a counts as GE-A credit.

<sup>4</sup>Substitute ECON 214 or 215 for GE-B 211.

## Third and Fourth Years

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 <sup>1</sup>   | 3           | -             |
| GE-B                          | Social Sciences (select) <sup>2</sup>                                      | 3           | 3             |
| GE-C                          | Humanities (select) <sup>2</sup>   | 3           | 3             |
| GE-D 101 & 117,<br>118 or 119 | English Composition and Writing (select) <sup>2</sup>                      | 3           | 2             |
| GE-E                          | Human Health and Well Being (select) <sup>2</sup>                          | -           | 1             |
| MATH 108,109                  | College Algebra and Trigonometry <sup>3</sup>                              | 3           | 3             |
| PHSL                          | Physiology <sup>4</sup>  | -           | 3             |
|                               |  | <hr/> 15    | <hr/> 15      |
| <u>Second Year</u>            |  | <u>Fall</u> | <u>Spring</u> |
| GE-B 202                      | Introduction to Psychology <sup>1</sup>                                    | 3           | -             |
| GE-C                          | Humanities (select) <sup>2</sup>   | -           | 3             |
| GE-A, B, C<br>GE-D 152 or 153 | (select) <sup>2</sup><br>Interpersonal Communication or<br>Public Speaking | 3           | -             |
| GE-E                          | Human Health and Well Being (select) <sup>2</sup>                          | 1           | 2             |
| CHEM 222a,b                   | Introduction to Chemical Principles <sup>5</sup>                           | 4           | 4             |
| F&N 215                       | Fundamentals of Nutrition  | 2           | -             |
| MICR 301                      | Principles of Microbiology   | -           | 4             |
|                               | Electives  | -           | 3             |
|                               |  | <hr/> 16    | <hr/> 16      |

<sup>1</sup> Required General Education courses.

<sup>2</sup> Refer to the section General Education for the Transfer Student.

<sup>3</sup> Math 108 meets the University Math requirements.

<sup>4</sup> A course in physiology approved by the department.

<sup>5</sup> Chemistry 222a counts as GE-A credit.

### Third and Fourth Years

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

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

FOREIGN LANGUAGE AND INTERNATIONAL TRADE

College of Liberal Arts  
(Bachelor of Arts)

Dr. Helmut Liedloff, Chairperson  
Dr. Eugene Timpe, Director  
Telephone - 618-536-5571  
Faner Building, Room 2166

The new Foreign Language and International Trade major combines courses from the College of Liberal Arts and the College of Business and Administration. It consists of 30-32 semester hours of business-related courses and approximately the same number of credits in one of these foreign languages: French, German, Japanese or Spanish. An internship late in the program gives the student opportunity to travel and work in an international company or agency.

| <u>First Year</u>                |   | <u>Fall</u> | <u>Spring</u> |
|----------------------------------|---|-------------|---------------|
| GE-A                             | Science (select) <sup>1</sup>                     | -           | 3             |
| GE-B 202                         | Psychology <sup>2</sup>                           | 3           | -             |
| GE-C                             | Humanities (select) <sup>2</sup>                  | 3           | 3             |
| FL                               | Foreign Language <sup>2,3,5</sup>                 | 4           | 4             |
| GE-D 101 & 117,<br>or 118 or 119 | English Composition <sup>1</sup>                  | 3           | 2             |
| GE-E                             | Human Health and Well Being (select) <sup>1</sup> | 2           | -             |
| GE-D 107                         | Intermediate Algebra or                           |             |               |
| MATH 139 or                      | Finite Math or                                    |             |               |
| MATH 116                         | Finite Math and Algebra                           | -           | 3-5           |
|                                  |   | 15          | 15-17         |

| <u>Second Year</u> |   | <u>Fall</u> | <u>Spring</u> |
|--------------------|---|-------------|---------------|
| GE-A               | Science (select) <sup>1</sup>                     | 3           | 3             |
| GE-B 250           | Comparative Politics <sup>2</sup>                 | 3           | -             |
| GE-C               | Humanities (select) <sup>1</sup>                  | -           | 3             |
| GE-D 152 or 153    | Interpersonal Communication<br>or Public Speaking | 3           | -             |
| GE-E               | Human Health and Well Being (select) <sup>1</sup> | -           | 2             |
| ECON 214           | Introduction to MacroEconomics <sup>2</sup>       | 3           | -             |
| ECON 215           | Introduction to MicroEconomics <sup>2</sup>       | -           | 3             |
| FL                 | Foreign Language <sup>2</sup>                     | 4           | 4             |
|                    |   | 16          | 15            |

<sup>1</sup>To determine what courses may be taken to satisfy General Education requirements, see the section, General Education for the Transfer Student.

<sup>2</sup>Required for major.

<sup>3</sup>Four hours may be used for GE-C credit.

<sup>4</sup>May be used for three credits in GE-B.

<sup>5</sup>May be used for partial fulfillment of the College of Liberal Arts requirement.

#### Foreign Language and International Trade As A Major

The Foreign Language and International Trade major gives its graduates the best available training for entry into the international business community. The student takes courses which gives them background in the business world, the culture, religion, philosophy, politics, history and geography of the country where the chosen language is spoken. Besides the major courses, the student must complete all other General Education, College, and University requirements.

Representative First Job Titles: Market Researcher, Administrator of State, International, Federal, and Local Government Offices, Professional in areas including Taxes, Logistics, Banking, Insurance, Contracts and Sales.

FOREIGN LANGUAGES (TEACHING)

(French, German, Spanish)  
College of Education  
(Bachelor of Science)

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

Dr. 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) <sup>1</sup>                        | 3           | -             |
| GE-B 212 or 301         | American Government or History of U.S.               | 3           | -             |
| GE-B 202                | Introduction to Psychology                           | -           | 3             |
| GE-D 101                | English Composition                                  | 3           | -             |
| GE-D 117, 118<br>or 119 | Writing  | -           | 2             |
| GE-D 107                | Intermediate Algebra                                 | -           | 3             |
| GE-E                    | PE Activity <sup>1</sup>                             | 2           | -             |
| GE-E 201                | Healthful Living                                     | -           | 2             |
| FL                      | Elementary French, German, or Spanish                | 4           | -             |
| FL                      | Continue above                                       | -           | 5             |
|                         |  | 15          | 15            |
| <u>Second Year</u>      |  | <u>Fall</u> | <u>Spring</u> |
| GE-A                    | Science (select) <sup>1</sup>                        | 3           | 3             |
| GE-B                    | Social Studies (select) <sup>1</sup>                 | -           | 3             |
| GE-C                    | English elective in Humanities (select) <sup>1</sup> | 3           | -             |
| GE-C                    | Humanities (select) <sup>1</sup>                     | 3           | 3             |
| GE-D 153                | Public Speaking                                      | -           | 3             |
| FL                      | Intermediate French, German, or Spanish              | 4           | 4             |
| GE                      | Elective   | 3           | -             |
|                         |  | 16          | 16            |

<sup>1</sup> Refer 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.

**FORESTRY**  
(Forest Resources Management Specialization)  
School of Agriculture  
(Bachelor of Science)

Dr. Dwight R. McCurdy,  
Acting Chairperson  
Telephone - 618-453-3341  
Agriculture Building, Room 184

The Department of Forestry has as its primary goal to provide an undergraduate program that prepares students for active roles in professional forestry. These roles include positions in public agencies in all levels of government; private firms, especially in the forest industry; and self-employment. The program in forest resources management includes instruction leading to careers in forest management and production, multiple use resource management, and the forest products industries. The specialization is accredited by the Society of American Foresters. Emphasis is upon integrated resource management of natural and renewable resources, coordinating forest utilization methods and conservation practices, and preserving our wildlands heritage. A five-week session (Field Study) is required after the junior year to give the student practical field experience.

| <u>First Year</u>  |   | <u>Fall</u> | <u>Spring</u> |
|--------------------|---|-------------|---------------|
| GE-B               | Social Studies (select) <sup>2</sup>              | 3           | -             |
| GE-A 118           | Introductory Zoology                              | -           | 4             |
| GE-C               | Humanities (Select) <sup>2</sup>                  | -           | 3             |
| GE-D 101           | English Composition                               | 3           | -             |
| GE-E               | Human Health and Well Being (select) <sup>2</sup> | -           | 2             |
| BOT 200            | General Botany with Lab <sup>1</sup>              | 4           | -             |
| CHEM 140a & b      | Chemistry <sup>1</sup>                            | 4           | 4             |
| MATH 140           | Calculus <sup>1</sup>                             | -           | 4             |
| FOR 200            | Introduction to Forestry                          | 1           | -             |
|                    |   | 15          | 17            |
| <u>Second Year</u> |   | <u>Fall</u> | <u>Spring</u> |
| GE-E               | Human Health & Well Being (select) <sup>2</sup>   | -           | 2             |
| GE-C               | Humanities (select) <sup>2</sup>                  | 3           | 3             |
| GE-D 118           | Technical Report Writing                          | 2           | -             |
| GE-D 153           | Public Speaking                                   | -           | 3             |
| ABE 204            | Agricultural Economics <sup>1</sup>               | -           | 3             |
| BIOL 307           | Environmental Biology <sup>1</sup>                | 3           | -             |
| FOR 201            | Ecology of North American Forests                 | 3           | -             |
| FOR 202            | Tree Identification Lab                           | 1           | 1             |
| MATH 283           | Introduction to Applied Statistics                | -           | 3             |
| PLSS 240           | Soil Science                                      | 4           | -             |
|                    |   | 16          | 15            |

<sup>1</sup>Substitutes for General Education requirements.

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

Third and Fourth Years

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

Forestry As A Major

Available to the Department of Forestry for teaching and research are the following: the Crab-Orchard National Wildlife Refuge; the Shawnee National Forest; the Union State Tree Nursery and Forest; many state parks and conservation areas, and the Kaskaskia Experimental Forest, together comprising several hundred thousand acres of forest land, all in the vicinity of the University. Also accessible for wood utilization teaching and research is a modern wood products plant located at the Vocational-Technical Institute east of Carbondale. The Southern Illinois University Experimental Forest and Giant City State Park provide additional facilities for teaching and research, especially during the spring camp. In addition, 30 staff members of the U. S. Forest Service Carbondale Research Center are affiliated with the Department of Forestry and help to enrich the University's forestry program.

**Representative First Job Titles:** Agricultural Aid, Recreational Resource Planner, Forest Engineer, Silviculture Specialist, Forest Utilization Specialist, Forest Recreation Specialist, Range Manager, Watershed Manager, Wildlife Manager, Forest Products Technologist, Animal Ecologist, Plant Ecologist, Pollution Control Specialist, Forest Conservation Specialist, Public and Environmental Health Forester, Parks Supervisor, Grazing Lands Supervisor, Research Forester, Forest Extension Worker, Timber Manager, Park Ranger, Soil Conservationist, Forest Resources Manager.

**FORESTRY**  
(Forest Science Specialization)  
School of Agriculture  
(Bachelor of Science)

Dr. Dwight R. McCurdy,  
Acting Chairperson  
Telephone - 618-453-3341  
Agriculture Building, Room 184

The Department of Forestry has as its primary goal to provide an undergraduate program that prepares students for active roles in professional forestry. These roles include positions in public agencies in all levels of government; private firms, especially in the forest industry; and self-employment. The forest science option is intended for students who plan to enter a graduate program in forestry upon completion of the baccalaureate program. The student and his or her advisory committee, consisting of two Department of Forestry faculty members, plan an individualized program to meet the student's educational and professional goals. The program of study may be selected from any subject within the competence of the Forestry Department faculty.

Admission to the program is limited to students with a grade point average of 3.0 or above (on a 4.0 = A scale) and the student must maintain a 3.0 or above average to remain in the program.

| First Year    |   | Fall | Spring |
|---------------|---|------|--------|
| GE-A 118      | Introductory Zoology                              | 4    | -      |
| GE-B          | Social Studies (select) <sup>2</sup>              | 3    | -      |
| GE-C          | Humanities (select) <sup>2</sup>                  | -    | 3      |
| GE-D 101      | English Composition                               | 3    | -      |
| GE-E          | Human Health and Well Being (select) <sup>2</sup> | -    | 1      |
| BOT 200       | General Botany with Lab <sup>1</sup>              | -    | 4      |
| CHEM 140a & b | Chemistry <sup>1</sup>                            | 4    | 4      |
| FOR 200       | Introduction to Forestry                          | 1    | -      |
| MATH 140      | Calculus <sup>1</sup>                             | -    | 4      |
|               |   | 15   | 16     |

| Second Year |   | Fall | Spring |
|-------------|---|------|--------|
| GE-B        | Social Studies (select) <sup>2</sup>              | 3    | 3      |
| GE-C        | Humanities (select) <sup>2</sup>                  | 3    | 3      |
| GE-D 118    | Writing (select) <sup>2</sup>                     | 2    | -      |
| GE-E        | Human Health and Well Being (select) <sup>2</sup> | 2    | 2      |
| BIOL 307    | Environmental Biology <sup>1</sup>                | 3    | -      |
| FOR 201     | Ecology of North American Forests                 | 3    | -      |
| FOR 202     | Tree Identification Lab                           | 1    | 1      |
| PLSS 240    | Soil Science                                      | -    | 4      |
|             | Elective  | -    | 3-5    |
|             |   | 17   | 16-18  |

<sup>1</sup>Substitutes for General Education requirements.

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

Third and Fourth Years

There are four additional forestry courses which are required during the third and fourth years to complete the professional forestry core. The remainder of the third and fourth years are elective, selected by the student and his or her committee to satisfy the student's educational and professional goals.

Forestry As A Major

Available to the Department of Forestry for teaching and research are the following: the Crab-Orchard National Wildlife Refuge; the Shawnee National Forest; the Union State Tree Nursery and Forest; 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. Dwight R. McCurdy,  
Acting Chairperson  
Telephone - 618-453-3341  
Agriculture Building, Room 184

The Department of Forestry has as its primary goal to provide an undergraduate program that prepares students for active roles in professional forestry. These roles include positions in public agencies in all levels of government; private firms, especially in the forestry industry; and self-employment. The program in outdoor recreation resource management provides interdisciplinary professional training in developing, maintaining and managing forests and wildlands as recreational areas. The specialization is accredited by the Society of American Foresters. The courses offered are among those recommended by the National Recreation and Park Association. A special feature of the outdoor recreation resource management option is the two-week tour through selected sections of the U.S. to study outdoor recreation and park facilities. This tour normally is programmed in the summer following completion of the third year in the program.

| First Year    |   | Fall | Spring |
|---------------|---|------|--------|
| GE-C          | Humanities (select) <sup>2</sup>                  | -    | 3      |
| GE-D 101      | English Composition                               | 3    | -      |
| GE-B          | Social Studies (select) <sup>2</sup>              | 3    | 3      |
| GE-E          | Human Health and Well Being (select) <sup>2</sup> | -    | 2      |
| BOT 200       | General Botany with Lab <sup>1</sup>              | 4    | -      |
| CHEM 140a & b | Chemistry (organic/inorganic) <sup>1</sup>        | 4    | 4      |
| FOR 200       | Introduction to Forestry                          | 1    | -      |
| MATH 140      | Calculus <sup>1</sup>                             | -    | 4      |
|               |   | 15   | 16     |

| Second Year |   | Fall | Spring |
|-------------|---|------|--------|
| GE-D 118    | Technical Report Writing                          | 2    | -      |
| GE-C        | Humanities (select) <sup>2</sup>                  | -    | 3      |
| GE-E        | Human Health and Well Being (select) <sup>2</sup> | -    | 2      |
| GE-C 205    | Innovation for the Contemporary Environment       | 3    | -      |
| GE-D 153    | Public Speaking                                   | -    | 3      |
| BIOL 307    | Environmental Biology <sup>1</sup>                | 3    | -      |
| FOR 201     | Ecology of North American Forests                 | 3    | -      |
| FOR 202     | Tree Identification Lab                           | 1    | 1      |
| MATH 283    | Introduction to Applied Statistics                | -    | 3      |
| PLSS 240    | Soil Science                                      | 4    | -      |
|             |   | 16   | 15     |

<sup>1</sup>Substitutes for General Education requirements.  
<sup>2</sup>To determine what courses may be taken to satisfy the general education requirements for this major, please refer to the section, General Education for the Transfer Student.

Third and Fourth Years

Professional and related courses are emphasized during the junior and senior years to develop competence in management of recreational resources of forested environments. A three week summer tour of outdoor recreation facilities is included.

Forestry As A Major

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

**FRENCH\***  
College of Liberal Arts  
(Bachelor of Arts)

Dr. Helmut Liedloff, Chairperson  
Telephone - 618-536-5571  
Faner Bldg., Room 2166

Programs of study in foreign languages leading to the Bachelor of Arts degree (with or without teacher certification) are offered in Classics, French, Foreign Language and International Trade, German, Russian, and Spanish. There is also a special major in East Asian Studies leading to the Bachelor of Arts degree for students who have a professional or occupational interest in Asia. Students wishing to work toward 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) <sup>1</sup>                         | -           | 3             |
| GE-B                          | Social Science (select) <sup>1</sup>                  | 3           | 3             |
| GE-C                          | Humanities (select) <sup>1</sup>                      | 3           | -             |
| GE-D 101 & 117,<br>118 or 119 | English Composition and Writing (select) <sup>1</sup> | 3           | 2             |
| FR 123a,b                     | Elementary French <sup>2</sup>                        | 4           | 4             |
| GE-D 107                      | Intermediate Algebra                                  | -           | 3             |
| GE-E                          | Human Health and Well Being (select) <sup>1</sup>     | 2           | -             |
|                               |   | <u>15</u>   | <u>15</u>     |
| <u>Second Year</u>            |   | <u>Fall</u> | <u>Spring</u> |
| GE-A                          | Science (select) <sup>1</sup>                         | 3           | 3             |
| GE-B                          | Social Science (select) <sup>1</sup>                  | -           | 3             |
| GE-C                          | Humanities (select) <sup>1</sup>                      | 3           | -             |
| GE-D 152 or 153               | Interpersonal Communication<br>or Public Speaking     | 3           | -             |
| FR 201a,b                     | Intermediate French <sup>3</sup>                      | 4           | 4             |
| FR 220a,b                     | Intermediate French Conversation <sup>4</sup>         | 2           | 2             |
| MATH or CS                    | Math or Computer Science <sup>5</sup>                 | -           | 3             |
|                               |   | <u>15</u>   | <u>15</u>     |

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

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

<sup>2</sup>Two semesters (general eight hours) of a foreign language are required for all Liberal Arts students who entered college anywhere Fall 1978 or later. However, four of these hours may be used for GE-C credit. This first year of French does not count toward the major.

<sup>3</sup>Required by the major. Students with more than one year of high school French should take at least one substantial course in the French major each semester.

<sup>4</sup>French 220 a,b is recommended but does not usually count towards major or minor requirements.

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

**French As A Major**

A major in French consists of 36 semester hours in courses above the 100 level with a minimum of 14 hours on the 300 level (to include 320), 14 hours on the 400 level (may include FL 436), and one literature course at the 300 or 400 level is required. A minor in French consists of 18 semester hours in courses above the 100 level (to include 320). Transfer students who major in a foreign language must complete a minimum of 12 semester hours in language courses at SIUC.

**Representative First Job Titles:** Airline Stewardess, Customer Services Personnel, Public Relations Officer, Publications Personnel, Executive Secretary, Announcer, Continuity Writer, Copywriter, Correspondent, Critical Writer, Editorial Writer, Feature Writer, Program Assistant.

**GEOGRAPHY<sup>1</sup>**  
 College of Education  
 (Bachelor of Science)

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

Dr. David Arey, Chairperson  
 Telephone - 618-536-3375  
 Faner Building, Room 4520

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) <sup>2</sup>                        | 3           | 3             |
| GE-B 103                 | Geography of the Human Environment                   | 3           | -             |
| GE-C                     | Humanities (select) <sup>2</sup>                     | 3           | 3             |
| GE-D 101                 | English Composition                                  | 3           | -             |
| GE-D 117, 118            |  |             |               |
| or 119                   | Writing (select) <sup>2</sup>                        | -           | 2             |
| GE-D 107                 | Intermediate Algebra                                 | -           | 3             |
| GE-E                     | Human Health and Well Being (select) <sup>2</sup>    | 2           | -             |
| GE-E 201                 | Healthful Living <sup>2</sup>                        | -           | 2             |
| ED 201                   | The Teacher's Role in Public School Education        | <u>1</u>    | <u>-</u>      |
|                          |  | 15          | 13            |
| <u>Second Year</u>       |  | <u>Fall</u> | <u>Spring</u> |
| GE-A 330                 | Weather  | 3           | -             |
| GE-B 212 or 301          | American Government or History of U.S. <sup>2</sup>  | 3           | -             |
| GE-B 202                 | Introduction to Psychology                           | 3           | -             |
| GE-C                     | English elective in Humanities (select) <sup>2</sup> | 3           | -             |
| GE-D 153                 | Public Speaking <sup>2</sup>                         | -           | 3             |
| GEOG 300                 | Introduction to Geography                            | -           | 3             |
| GEOG 302                 | Physical Geography                                   | -           | 3             |
| Electives <sup>2,3</sup> |  | <u>3</u>    | <u>6</u>      |
|                          |  | 15          | 15            |

<sup>1</sup> See also the program under the College of Liberal Arts.

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

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

### 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.

## GEOGRAPHY\*

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

Dr. David Arey - Chairperson  
Telephone - 618-536-3375  
Faner Building, Room 4520

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) <sup>1</sup>                         | 3           | 3             |
| GE-B 103                      | Geography of the Human Environment (optional)         | 3           | -             |
| GE-C                          | Humanities (select) <sup>1</sup>                      | 3           | 3             |
| GE-D 101 & 117,<br>118 or 119 | English Composition and Writing (select) <sup>1</sup> | 3           | 2             |
| GE-D 107                      | Intermediate Algebra                                  | -           | 3             |
| GE-E                          | Human Health and Well Being (select) <sup>1</sup>     | 2           | 2             |
|                               |   | <u>14</u>   | <u>13</u>     |

| <u>Second Year</u> |  | <u>Fall</u> | <u>Spring</u> |
|--------------------|--|-------------|---------------|
| GE-A               | Science (select) <sup>1</sup>                  | 3           | -             |
| GE-B               | Social Science (select) <sup>1</sup>           | 3           | 3             |
| FL                 | Foreign Language <sup>2</sup>                  | 4           | 4             |
| GE-D 152 or 153    | Interpersonal Communication or Public Speaking | -           | 3             |
| GEOG 310           | Introductory Cartography <sup>4</sup>          | -           | 3             |
| GEOG 300           | Introduction to Geography <sup>3</sup>         | 3           | -             |
| MATH or CS         | Math or Computer Science <sup>5</sup>          | -           | 3             |
| Elective           |  | 3           | -             |
|                    |  | <u>16</u>   | <u>16</u>     |

\*See also the program in the College of Education.

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

<sup>2</sup> Two semesters (which is generally eight hours) of a foreign language are required for all Liberal Arts students who entered college anywhere Fall 1978 or later. However, four of these hours may be used for GE-C credit.

<sup>3</sup> Required by the major.

<sup>4</sup> Although 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.

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

### 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 SIUC can provide students with sound, broad training in geology.

| First Year      |  | Fall | Spring |
|-----------------|--|------|--------|
| 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 <sup>1,4</sup>   | 4    | 4      |
| GEOL 220        | Physical Geology <sup>1</sup>                        | 3    | -      |
| GEOL 221        | Historical Geology                                   | -    | 3      |
| MATH 108,109    | College Algebra and Trigonometry <sup>1,4</sup>      | 3    | 3      |
|                 |  | 14   | 16     |
| Second Year     |  | Fall | Spring |
| 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 <sup>1,4</sup> | 4    | 4      |
| GEOL 310 or     | Mineralogy <sup>2</sup> or                           | 4    | -      |
| MATH 150        | Calculus I <sup>3</sup>                              | (4)  | -      |
| GEOL 474 or     | Geomorphology <sup>2</sup> or                        | -    | 3      |
| GE-B            | Social Sciences (select)                             | -    | (3)    |
| PHYS 203, 253   |  |      |        |
| or 205, 255     | College Physics or University Physics <sup>1,3</sup> | 4    | 4      |
|                 |  | 16   | 15     |

<sup>1</sup>Substitutes for General Education requirements.

<sup>2</sup>If 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.

<sup>3</sup>If Physics 205 is taken, the student must enroll concurrently (or previously) in Math 150.

<sup>4</sup>Students in the College of Science must take one year of foreign language, one year of math, six semester hours of physical sciences, and six semester hours of biological sciences.

**Third and Fourth Years**

The last two years of a student's program allow some concentration on 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. SIUC 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.



GERMAN\*  
College of Liberal Arts  
(Bachelor of Arts)

Dr. Helmut Liedloff, Chairperson  
Telephone - 618-536-5571  
Faner Building, Room 2166

Programs of study in foreign languages leading to the Bachelor of Arts degree in the College of Liberal Arts (with or without teacher certification) are offered in Classics, French, Foreign Language and International Trade, German, Russian, and Spanish. There is also a special major in East Asian Studies leading to the Bachelor of Arts degree in the College of Liberal Arts for students who have a professional or occupational interest in Asia. Students 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) <sup>1</sup>                         | -    | 3      |
| GE-B                          | Social Science (select) <sup>1</sup>                  | 3    | 3      |
| GE-C                          | Humanities (select) <sup>1</sup>                      | 3    | -      |
| GE-D 101 & 117,<br>118 or 119 | English Composition and Writing (select) <sup>1</sup> | 3    | 2      |
| GER 126a,b                    | Elementary German <sup>2</sup>                        | 4    | 4      |
| GE-E                          | Human Health and Well Being (select) <sup>1</sup>     | 2    | -      |
| GE-D 107                      | Intermediate Algebra                                  | -    | 3      |
|                               |   | 15   | 15     |
| Second Year                   |   | Fall | Spring |
| GE-A                          | Science (select) <sup>1</sup>                         | 3    | 3      |
| GE-B                          | Social Science (select) <sup>1</sup>                  | -    | 3      |
| GE-C                          | Humanities (select) <sup>1</sup>                      | 3    | -      |
| GE-D 152 or 153               | Interpersonal Communication or Public Speaking        | 3    | -      |
| GER 201a,b                    | Intermediate German <sup>3</sup>                      | 4    | 4      |
| GE-E                          | Human Health and Well Being (select) <sup>1</sup>     | 2    | -      |
| MATH or CS                    | Math or Computer Science <sup>4</sup>                 | -    | 3      |
|                               |   | 15   | 13     |

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

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

<sup>2</sup>Two semesters (which is generally eight hours) of a foreign language are required for all Liberal Arts students who entered college anywhere Fall 1978 or later. However, four of these hours may be used for GE-C credit. The first year of German does not count on the major.

<sup>3</sup>Required by the major. Students with more than one year of high school German should carry at least one substantial course in the German major each semester.

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

#### German As A Major

A major in German consists of 36 semester hours in courses above the 100 level, to include the basic language sequence and one literature course (300 or 400 level). The student must complete 12 hours on the 300 level (to include 320) and 12 hours on the 400 level, plus 4 hours of electives on the 300 or 400 level. A minor in German consists of 18 semester hours in courses above the 100 level.

Transfer students who major in a foreign language must complete a minimum of 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  
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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 SIUC 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               | -  | 3  |
| GE-E         | Human Health & Well Being (select) | 2  | -  |
| Electives or | Technical Specialization           | 7  | 5  |
|              |                                    | 18 | 17 |

### 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 |

### Health Care Management Specialization Requirements - Minimum 15 hours

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

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)

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

<sup>1</sup> Refer to the section General Education for the Transfer Student.

Third and Fourth Years

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

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

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

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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) <sup>1</sup>                          | 3           | 3             |
| GE-B 202                | Introduction to Psychology <sup>2</sup>                | 3           | -             |
| GE-C                    | Humanities (select) <sup>1</sup>                       | 3           | 3             |
| GE-D 101                | English Composition <sup>2</sup>                       | 3           | -             |
| GE-D 117, 118<br>or 119 | Writing (select) <sup>1,2</sup>                        | -           | 3             |
| GE-D 107                | Intermediate Algebra                                   | -           | 3             |
| GE-E 201                | Healthful Living <sup>2</sup>                          | -           | 2             |
| GE-E                    | PE Activity <sup>2</sup>                               | 1           | -             |
| GE-E                    | Electives  | 2           | 1             |
|                         |  | <u>15</u>   | <u>15</u>     |
| <u>Second Year</u>      |  | <u>Fall</u> | <u>Spring</u> |
| GE-A                    | Science (select) <sup>1</sup>                          | -           | 3             |
| GE-B 301 or 212         | History of U.S. or American Government <sup>2</sup>    | 3           | -             |
| GE-B                    | Social Science (select) <sup>1</sup>                   | -           | 3             |
| GE-C                    | English Elective in Humanities (required) <sup>2</sup> | 3           | -             |
| GE-D 153                | Public Speaking <sup>2</sup>                           | -           | 3             |
| GE-E                    | PE Activity <sup>2</sup>                               | 1           | -             |
| Electives               |  | 5           | 7             |
| GE                      | Additional course from A, B, or C                      | 3           | -             |
|                         |  | <u>15</u>   | <u>16</u>     |

<sup>1</sup> Refer to the section General Education for the Transfer Student.

<sup>2</sup> The following specific General Education courses listed are required for Teacher's Certification: 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-E 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) <sup>2</sup>                        | 3           | 3             |
| GE-B 202                 | Introduction to Psychology                           | 3           | -             |
| GE-C                     | Humanities (select) <sup>2</sup>                     | 3           | 3             |
| GE-D 101                 | English Composition                                  | 3           | -             |
| GE-D 117, 118,<br>or 119 | Writing (select) <sup>2</sup>                        | -           | 2             |
| GE-D 153                 | Public Speaking                                      | -           | 3             |
| GE-E                     | Human Health and Well Being--activity                | 1           | -             |
| GE-E 201                 | Healthful Living                                     | -           | 2             |
| HIST 205A                | History of Western Civilization I                    | 3           | -             |
| HIST 205B                | History of Western Civilization II                   | -           | 3             |
|                          |  | <u>16</u>   | <u>16</u>     |
| <u>Second Year</u>       |  | <u>Fall</u> | <u>Spring</u> |
| GE-A                     | Science (select) <sup>2</sup>                        | 3           | -             |
| GE-B 301                 | Modern America from 1877 to Present                  | -           | 3             |
| GE-B                     | Social Science (select) <sup>2</sup>                 | -           | 3             |
| GE-C                     | English Elective in Humanities (select) <sup>2</sup> | 3           | -             |
| GE-D 107                 | Intermediate Algebra                                 | -           | 3             |
| GE-E                     | Human Health and Well Being--activity                | 1           | -             |
| HIST 300                 | Origins of Modern America, 1492-1877                 | 3           | 3             |
| HIST                     | Electives  | <u>6</u>    | <u>4</u>      |
|                          |  | <u>16</u>   | <u>15</u>     |

<sup>1</sup>See also the program under the College of Liberal Arts.

<sup>2</sup>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  
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Faner Building, Room 3374

The history major consists of 33 semester hours in addition to GE-B 301 American History. Courses in American History, Western Civilization and European History, and research writing are required. History electives are taken in two fields of History. Four courses at the four hundred level must be completed.

| <u>First Year</u>     |  | <u>Fall</u> | <u>Spring</u> |
|-----------------------|--|-------------|---------------|
| GE-A                  | Science (select) <sup>1</sup>                          | 3           | 3             |
| HIST 205              | Western Civilization <sup>2</sup>                      | 3           | 3             |
| GE-C                  | Humanities (select) <sup>1</sup>                       | -           | 3             |
| GE-D 101 & 117,       |  |             |               |
| 118 or 119            | English Composition and Writing (select) <sup>1</sup>  | 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) <sup>1</sup>      | 2           | 2             |
|                       |  | <u>14</u>   | <u>16</u>     |
| <u>Second Year</u>    |  | <u>Fall</u> | <u>Spring</u> |
| GE-A                  | Science (select) <sup>1</sup>                          | 3           | -             |
| GE-B 301              | Modern America - from 1877 to the Present <sup>2</sup> | -           | 3             |
| GE-B                  | Social Science (select) <sup>1</sup>                   | 3           | 3             |
| FL                    | Foreign Language <sup>3</sup>                          | 4           | 4             |
| HIST 300              | Origins of Modern America, 1492-1877 <sup>2</sup>      | 3           | -             |
| MATH or CS            | Math or Computer Science <sup>4</sup>                  | -           | 3             |
| Elective <sup>5</sup> |  | 3           | 3             |
|                       |  | <u>16</u>   | <u>16</u>     |

\*See also the program under the College of Education.

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

<sup>2</sup>Recommended by the major.

<sup>3</sup>Two semesters (which is generally eight hours) of a foreign language are required for all Liberal Arts students. However, four of these hours may be used for GE-C credit.

<sup>4</sup>One of these courses may be used to partially fulfill the Liberal Arts requirement.

<sup>5</sup>Elective hours should be used to explore areas of interest and to enhance career opportunities; or courses may be selected to satisfy Liberal Arts requirements (see College of Liberal Arts section).

## Third and Fourth Years

The history student has great flexibility in designing a third and fourth year program to meet specific career goals. Minimum requirements demand an additional twenty hours in the major, averaging one or two courses a semester. Additional courses may be devoted to studying some field of history in greater depth, or to developing a strong secondary field or job skill. Examples are computer science, foreign languages, secondary education, or journalism. When possible, transfer students should contact the department prior to their first semester of attendance. Transfer students must earn at least 16 semester hours of history credit at SIUC.

## History As A Major

Formerly, people thought that the only thing someone did with a history major was teach. Although that can be a fine career, the fact is that the majority of history majors do not teach. With a background in history many students enter library and archival work, government and diplomatic service or news and special events reporting. Currently, former SIUC history majors occupy positions in institutions ranging from the CIA and Chase-Manhattan Bank, through Sears Roebuck, British Airways, ABC, and Time-Life. The history major is also an excellent preparation for law school and for graduate work in a wide variety of fields.

**Representative First Job Titles:** Administrative Aide, Legal Assistant, Policy Researcher, Archival Worker, Records Manager, Museum Curator, Library Administrative Assistant, Market Researcher, Needs Analyst, Environmental Historian, Genealogical Researcher, Military Historian, Legislative Research Assistant, Editor or Editorial Assistant, Publishing Sales Representative, Peace Corps Volunteer, Historical Society Director, Newscaster, Budget Analyst, Teacher, Overseas Marketing Assistant, Corporate Archivist.

The Industrial Technology program has as its objective the training of qualified personnel who can develop and direct the 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 <sup>1</sup>     | -           | 3             |
| GE-B               | Social Science (select) (Psychology) <sup>1</sup> | 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 208             | Fundamentals of Manufacturing Processes           | 3           | -             |
| MATH 111           | Algebra and Trigonometry <sup>2</sup>             | 5           | -             |
| MATH 140           | Short course in Calculus                          | -           | 4             |
|                    |   | <u>16</u>   | <u>15</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 105             | Technical Sketching                               | 3           | -             |
| IT 209             | Manufacturing Processes Lab                       | -           | 3             |
| PSYCH 323          | Psychology of Employee Relations                  | 3           | -             |
| PHYS 203a,b        |   |             |               |
| 253a,b             | College Physics and Lab <sup>2</sup>              | <u>4</u>    | <u>4</u>      |
|                    |   | <u>16</u>   | <u>15</u>     |

<sup>1</sup> Recommended, not required.

<sup>2</sup> Substitutes for General Education requirements.

To remain in the College, students are subject to the 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. For each specialization (manufacturing and mining) 30 hours in Industrial Technology courses must be taken at SIU Carbondale.

#### Industrial Technology (Manufacturing) As A Major

Community college occupational and technical credit (data processing, electronics technology, management, marketing, mechanical technology, metals technology, plastics, transportation, building construction, architectural drafting to name a few) can be accepted as applicable towards degree requirements. This permits the student to obtain a Bachelor of Science degree in a minimum length of time.

For the bachelor's degree the recommended guidelines are met through the completion of 35 semester hours in the Industrial Technology core, and 49 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. James Orr  
Telephone - 618-536-5545  
Technology Bldg., Room D127

#### 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.

Students interested in this major should contact Dr. James Orr.

#### 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.

INTERIOR DESIGN  
School of Technical Careers  
(Bachelor of Science)

Timothy R. Tully, Coord.  
Telephone 618-453-3734  
Quigley Hall, Room 410

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.

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            | English Composition <sup>1</sup>                         | 3              | -              |
| GE-D 117,118,119    | Writing (select) <sup>1</sup>                            | -              | 2              |
| GE-D 107            | Intermediate Algebra                                     | -              | 3              |
| GE-D 152,153        | Speech (select) <sup>1</sup>                             | -              | 3              |
| ART 110             | Introduction to Drawing <sup>2</sup>                     | 3              | -              |
| STC 215a,b          | Drafting Graphics <sup>2</sup>                           | 3              | 3              |
| ID 111              | Elements of Interior Design <sup>2</sup>                 | 3              | -              |
| ID 112              | Principles of Interior Design <sup>2</sup>               | -              | 3              |
| ID 262,363          | History of Interior Design I,II <sup>2</sup>             | <u>2</u><br>14 | <u>2</u><br>16 |
| <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 <sup>2</sup> | 3              | -              |
| GE                  | Select from Areas A,B,C,D,E                              | -              | 7              |
| ART 207             | Survey of Art History <sup>2</sup>                       | 3              | -              |
| ID 142              | Architectural Detailing <sup>2</sup>                     | 3              | -              |
| ID 221              | Sketching Concepts <sup>2</sup>                          | 2              | -              |
| ID 222              | Presentation <sup>2</sup>                                | 3              | -              |
| ID 234              | Materials and Finishes <sup>2</sup>                      | -              | 2              |
| ID 242              | Interior Architectural Detailing <sup>2</sup>            | <u>-</u><br>14 | <u>3</u><br>15 |

<sup>1</sup>Required General Education courses. General Education courses other than those marked '1' are highly recommended for interior design majors.

<sup>2</sup>These courses are required for an Interior Design major. For specific information regarding the acceptability of a major requirement from a community 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 SIUC. Because of the large number of laboratory/studio classes in interior design, the community 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)  
 College of Communications and Fine Arts  
 (Bachelor of Science)

Manion Rice, 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, and other news media; in other advertising careers; and in public relations, photojournalism, and research.

Undergraduates are urged to enter the School of Journalism immediately that they may obtain the advantage of Journalism Advisement. Students may take JRNL 300 during their second semester in the freshman year. Successful completion of a language skills exam and 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) <sup>1</sup>                     | -           | 3             |
| GE-B               | Social Studies (select) <sup>1</sup>              | 3           | 3             |
| GE-C               | Humanities (select) <sup>1</sup>                  | 3           | -             |
| GE-D 107           | Intermediate Algebra                              | 3           | -             |
| GE-D 101           | English Composition                               | 3           | -             |
| GE-D 117,118,119   | Writing (select one) <sup>1</sup>                 | -           | 2             |
| GE-D 152, 153      | Interpersonal Communication or Public Speaking    | -           | 3             |
| GE-E               | Human Health and Well Being (select) <sup>1</sup> | 2           | -             |
| Elective           |   | -           | -             |
| JRNL 300           | Mass Media in Modern Society                      | -           | 3             |
|                    |   | <u>14</u>   | <u>14</u>     |
| <u>Second Year</u> |   | <u>Fall</u> | <u>Spring</u> |
| GE-A               | Science (select) <sup>1</sup>                     | 3           | 3             |
| GE-B               | Social Studies (select) <sup>1</sup>              | -           | 3             |
| GE-C               | Humanities (select) <sup>1</sup>                  | 3           | 3             |
| GE-E               | Human Health and Well Being (select) <sup>1</sup> | 2           | -             |
| JRNL 370           | Principles of Advertising                         | 3           | -             |
| JRNL 310           | Writing for the Mass Media                        | -           | 3             |
| Electives          |   | -           | -             |
|                    |   | <u>5</u>    | <u>4</u>      |
|                    |   | <u>16</u>   | <u>16</u>     |

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

**Journalism As A Major**

In addition to the General Education courses, the academic requirements for a Bachelor of Science Degree in Journalism include 30-34 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 SIUC.

The School of Journalism is accredited by the professional accrediting agency, the American Council on Education for Journalism and Mass Communications.

The advertising specialization is a broad, yet intensive selection of specialized courses preparing the student to enter a wide variety of fields, including sales, copy writing, production, administration, retailing, and agency work.

The news-editorial specialization allows the student to take the general requirements of this sequence, plus a variety of electives in such areas as: community and suburban newspaper journalism, and magazine journalism.

Graduate degrees are available.

**Representative First Job Titles:** Advertising Agency Account Executive, Advertising Copywriter, Advertising Layout Artist, Advertising Production Director, Advertising Salesperson, Assignment Editor, Cable Communication Coordinator, Copy Editor, Editor, Feature Writer, Graphic Designer, Magazine Production and Design Specialist, Magazine Writer, Media Account Executive, Media Planner, Media Researcher, News Editor, Photographer, Newsletter Editor, Photo Editor, Public Affairs Reporter, Public Information Specialist, Public Relations Representative, Public Opinion Researcher, Reporter, Retail Advertising Director, Sports Reporter, Telecommunications Consultant.



LANGUAGE ARTS (ENGLISH AND READING)  
College of Education  
(Bachelor of Science)

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

Dr. Billy Dixon, 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) <sup>1</sup>                                       | 3           | -             |
| GE-B 212 or 301         | Introduction to American Government<br>or U.S. History <sup>2</sup> | -           | 3             |
| GE-C                    | Humanities (select) <sup>1</sup>                                    | 3           | -             |
| GE-D 101                | English Composition <sup>2</sup>                                    | 3           | -             |
| GE-D 153                | Public Speaking <sup>2</sup>  | 3           | -             |
| GE-D 117, 118<br>or 119 | Writing (select) <sup>1,2</sup>                                     | -           | 2             |
| GE-D 107                | Intermediate Algebra  | -           | 3             |
| GE-E 201                | Healthful Living <sup>2</sup>                                       | -           | 2             |
| GE-E                    | Human Health & Well Being-activity (select) <sup>1,2</sup>          | 2           | -             |
| Electives               |   | 2           | 5             |
|                         |   | <u>16</u>   | <u>15</u>     |
| <u>Second Year</u>      |   | <u>Fall</u> | <u>Spring</u> |
| GE-A                    | Science (select) <sup>1</sup>                                       | 3           | 3             |
| GE-B                    | Social Science (select) <sup>1</sup>                                | 3           | -             |
| GE-B 202                | Introduction to Psychology <sup>2</sup>                             | -           | 3             |
| GE-C 200                | Oral Interpretation of Literature <sup>3</sup>                      | 3           | -             |
| Electives               |   | 6           | 6             |
|                         |   | <u>15</u>   | <u>15</u>     |

<sup>1</sup> Refer to the section General Education for the Transfer Student.

<sup>2</sup> The 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).

<sup>3</sup> Required for major.

In Addition

2.50 GPA required for Teacher Education Program.

**LAW ENFORCEMENT**  
 School of Technical Careers  
 (Associate in Applied Science)

Michael D. Moberly  
 Program Coordinator  
 Telephone - 618-536-6682  
 Faner B, Room 4343

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 SIUC may do so by working toward a bachelor of science degree with all course credits being transferred.

| <u>First Year</u>  |   | <u>Fall</u> | <u>Spring</u> |
|--------------------|---|-------------|---------------|
| 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           | -             |
| LE Elective        | Security Survey: Loss Prevention Appl.      | -           | 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) <sup>1</sup>                         | -           | 3             |
| GE-B                           | Social Science (select) <sup>1</sup>                  | 3           | 3             |
| GE-C                           | Humanities (select) <sup>1</sup>                      | 3           | -             |
| FL                             | Foreign Language <sup>2</sup>                         | 4           | 4             |
| GE-D 101 & 117,<br>118, or 119 | English Composition and Writing (select) <sup>1</sup> | 3           | 2             |
| GE-D 107                       | Intermediate Algebra <sup>1</sup>                     | -           | 3             |
| GE-E                           | Human Health & Well Being (select) <sup>1</sup>       | 2           | -             |
|                                |   | <u>15</u>   | <u>15</u>     |
| <u>Second Year</u>             |   | <u>Fall</u> | <u>Spring</u> |
| GE-A                           | Science (select) <sup>1</sup>                         | 3           | 3             |
| GE-B                           | Social Science (select) <sup>1</sup>                  | 3           | -             |
| GE-C                           | Humanities (select) <sup>1</sup>                      | -           | 3             |
| FL                             | Foreign Language Second Year <sup>2</sup>             | 4           | 4             |
| GE-D                           | Speech (select) <sup>1</sup>                          | -           | 3             |
| GE-E                           | Human Health & Well Being (select) <sup>1</sup>       | 2           | -             |
| Electives <sup>3</sup>         |   | 3           | -             |
| MATH or CS                     | Math or Computer Science <sup>4</sup>                 | -           | 3             |
|                                |   | <u>15</u>   | <u>16</u>     |

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

<sup>2</sup>There is a foreign language requirement for native speakers of English: (1) one year of an uncommon or non-Western language, or (2) two years of any foreign language. If the language in (2) were uncommon or non-Western, satisfying (2) would automatically satisfy (1). Students planning graduate study in linguistics should take three years of foreign language study. Two semesters (which is generally eight hours) of a foreign language are required for all Liberal Arts students who entered college anywhere Fall 1978 or later. However, four of these hours may be used for GE-C credit.

<sup>3</sup>Elective hours should be used to explore areas of interest and to enhance career opportunities; or courses may be selected to fulfill Liberal Arts requirements (see College of Liberal Arts section).

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

Representative First Job Titles: 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. Uma Sekeran, 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) <sup>1</sup>                       | 3    | 3      |
| GE-B                    | Social Science (select) <sup>1</sup>                | 3    | -      |
| *GE-B 202               | Introduction to Psychology                          | -    | 3      |
| GE-C-3                  | Humanities (select) <sup>1</sup>                    | 3    | -      |
| GE-C                    | Humanities (select) <sup>1</sup>                    | -    | 3      |
| *GE-D 101               | English Composition                                 | 3    | -      |
| GE-D 117, 118<br>or 119 | Expository, Technical Report<br>or Creative Writing | -    | 2<br>3 |
| ECON 208                | Economic and Business Statistics                    | -    | 3      |
| *MATH 139-3             | Finite Mathematics                                  | 3    | -      |
|                         |   | 15   | 14     |

| Second Year           |   | Fall | Spring |
|-----------------------|---|------|--------|
| GE-A                  | Science (select) <sup>1</sup>   | -    | 3      |
| *GE-D 152 or<br>153   | Public Speaking or Interpersonal<br>Communication                                     | -    | 3      |
| GE-E-2                | Human Health & Well Being (select) <sup>1</sup>                                       | 2    | -      |
| *ACCT 220, 230        | Financial, Managerial Accounting  | 3    | 3      |
| *CS 212 or<br>CIP 229 | Intro. to Computer Programming (Pascal) or<br>Computing for Business Admin. (Fortran) | -    | 3      |
| *ECON 214, 215        | Economics, Macro, Micro <sup>2</sup>  | 3    | 3      |
| *MATH 140-4           | Short Course in Calculus  | 4    | -      |
| *MGT 202              | Business Communications   | 3    | -      |
|                       |   | 15   | 15     |

\*Required course for a major in Accounting.

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

<sup>2</sup>ECON 214 or 215 counts toward 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 and 40% rule.

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) <sup>1</sup>   | 3           | 3             |
| GE-B                    | Social Science (select) <sup>1</sup>  | 3           | -             |
| *GE-B 202               | Introduction to Psychology  | -           | 3             |
| GE-C-3                  | Humanities (select) <sup>1</sup>  | 3           | -             |
| GE-C                    | Humanities (select) <sup>1</sup>  | -           | 3             |
| *GE-D 101               | English Composition   | 3           | -             |
| GE-D 117, 118<br>or 119 | Expository, Technical Report<br>or Creative Writing                                   | -           | 2             |
| ECON 208                | Economic and Business Statistics  | -           | 3             |
| *MATH 139-3             | Finite Mathematics  | 3           | -             |
|                         |   | <u>15</u>   | <u>14</u>     |
| <u>Second Year</u>      |   | <u>Fall</u> | <u>Spring</u> |
| GE-A                    | Science (select) <sup>1</sup>   | -           | 3             |
| *GE-D 152 or<br>153     | Public Speaking or Interpersonal<br>Communication                                     | -           | 3             |
| GE-E-2                  | Human Health & Well Being (select) <sup>1</sup>                                       | 2           | -             |
| *ACCT 220, 230          | Financial, Managerial Accounting  | 3           | 3             |
| *CS 212 or<br>CIP 229   | Intro. to Computer Programming (Pascal) or<br>Computing for Business Admin. (Fortran) | -           | 3             |
| *ECON 214, 215          | Economics, Macro, Micro <sup>2</sup>  | 3           | 3             |
| *MATH 140-4             | Short Course in Calculus  | 4           | -             |
| *MGT 202                | Business Communications   | 3           | -             |
|                         |   | <u>15</u>   | <u>15</u>     |

\*Required course for a major in Accounting.

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

<sup>2</sup> ECON 214 or 215 counts toward 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 and the 40% rule.

Representative First Job Titles: Marketing Assistant, Retail Manager, Consumer Marketing Area or Territorial Manager, Commercial/Industrial Marketing Representative, Sales Representative Trainee, Marketing Trainee, Market Analyst, Management Trainee, Food Service Sales Representative, Bond Representative, Benefits Analyst, Budget Accountant, Budget Administrator, Business and Economics Statistician, Business Planner, Controller, Management Analyst, Manufacturer's Representative, Market Research Analyst, Sales Manager, Product Manager, Operations Research Analyst, Credit Manager, Customer Services Officer, Public Relations Officer.



**MATHEMATICS<sup>1</sup>**  
College of Education  
(Bachelor of Science)

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

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) <sup>2</sup>                                       | 3           | 3             |
| GE-B 212 or 301           | Introduction to American Government<br>or U.S. History <sup>3</sup> | 3           |               |
| GE-C                      | Humanities (select) <sup>2</sup>                                    | 3           | -             |
| GE-D 101                  | English Composition <sup>3</sup>                                    | 3           | -             |
| GE-D 117 or 118<br>or 119 | Writing (select) <sup>2,3</sup>                                     | 2           |               |
| GE-E 201                  | Healthful Living <sup>3</sup>                                       | 2           | -             |
| MATH 111                  | Pre-Calculus <sup>4</sup>   | 5           | -             |
| MATH 150                  | Calculus I  | 4           |               |
| CS 202                    | Introduction to Computer Programming                                | 3           |               |
|                           |   | <u>16</u>   | 15            |

| <u>Second Year</u> |  | <u>Fall</u> | <u>Spring</u> |
|--------------------|--|-------------|---------------|
| GE-A               | Science (select) <sup>2</sup>                          | 3           | -             |
| GE-B               | Social Science (select) <sup>2</sup>                   | -           | 3             |
| GE-B 202           | Introduction to Psychology <sup>3</sup>                | 3           | -             |
| GE-C               | English elective in Humanities (select) <sup>2,3</sup> | -           | 3             |
| GE-C               | Humanities (select) <sup>2</sup>                       | 3           | -             |
| GE-D 153           | Public Speaking <sup>3</sup>                           | 3           |               |
| GE-E               | P.E. Activity <sup>3</sup>                             | 2           | -             |
| MATH 221           | Introduction to Linear Algebra                         | 3           |               |
| MATH 250           | Calculus II  | 4           | -             |
| MATH 251 or<br>305 | Calculus III or Differential Equations                 | -           | 3             |
|                    |  | <u>16</u>   | <u>15</u>     |

<sup>1</sup>See also the program under the College of Liberal Arts. The College of Science also offers a B.S. in Mathematics.

<sup>2</sup>Refer to the section General Education for the Transfer Student.

<sup>3</sup>The following courses are required for teacher certification: 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.

<sup>4</sup>Approved 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.

**MATHEMATICS\***  
College of Liberal Arts  
(Bachelor of Arts)

Dr. Ron Kirk - Chairperson  
Telephone - 618-453-5302  
Neckers Building, Room 363

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) <sup>1</sup>                         | 3             | 3             |
| GE-B                          | Social Science (select) <sup>1</sup>                  | 3             | 3             |
| GE-C                          | Humanities (select) <sup>1</sup>                      | -             | 3             |
| GE-D 101 & 117,<br>118 or 119 | English Composition and Writing (select) <sup>1</sup> | 3             | 2             |
| GE-E                          | Human Health and Well Being (select) <sup>1</sup>     | 2             | -             |
| MATH 150 & 250                | Calculus I and II <sup>2</sup>                        | 4<br><hr/> 15 | 4<br><hr/> 15 |

| <u>Second Year</u> |   | <u>Fall</u>   | <u>Spring</u> |
|--------------------|---|---------------|---------------|
| GE-A               | Science (select) <sup>1</sup>                     | 3             | -             |
| GE-B               | Social Science (select) <sup>1</sup>              | -             | 3             |
| GE-C               | Humanities (select) <sup>1</sup>                  | -             | 3             |
| GE-D 152 or 153    | Interpersonal Communications or Public Speaking   | 3             | -             |
| MATH 251           | Calculus III <sup>2</sup>                         | 3             | -             |
| MATH 221           | Introduction to Linear Algebra <sup>2</sup>       | -             | 3             |
| MATH 319           | Introduction to Abstract Algebra                  | -             | 3             |
| CS 202             | Introduction to Computer Programming <sup>2</sup> | 3             | -             |
| FL                 | Foreign Language <sup>3</sup>                     | 4<br><hr/> 16 | 4<br><hr/> 16 |

\*See also the programs (B.S.) under the College of Education and the College of Science.

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

<sup>2</sup>Required by major.

<sup>3</sup>Math 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.

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. Ron Kirk, Chairperson  
Dr. John Hooker, Undergraduate  
Program Director  
Telephone - 618-453-5302  
Neckers Building, Room 360

Students majoring in mathematics should plan to complete three semesters of calculus, a course in linear algebra, and a course in computer programming during their first two years. Students then choose at least seven advanced level courses appropriate to their interests and goals. These courses should include at least one course from each of the following four groups: 1) Algebra/Discrete Mathematics; 2) Analysis; 3) Applied Mathematics; and 4) Probability/Statistics.

| <u>First Year</u>             |   | <u>Fall</u> | <u>Spring</u> |
|-------------------------------|---|-------------|---------------|
| Dept. Level                   | Biological Sciences <sup>1</sup>                      | 3           | 3             |
| CS 202                        | Computer Programming                                  | -           | 3             |
| GE-B                          | Social Science (select) <sup>2</sup>                  | 3           | -             |
| GE-C                          | Humanities (select) <sup>2</sup>                      | -           | 3             |
| GE-D 101 & 117,<br>118 or 119 | English Composition and Writing (select) <sup>2</sup> | 3           | 2             |
| MATH 150                      | Calculus I  | 4           | -             |
| MATH 250                      | Calculus II   | -           | 4             |
| GE-E                          | Human Health & Well Being (select) <sup>2</sup>       | 1           | 1             |
|                               |   | <u>14</u>   | <u>16</u>     |

| <u>Second Year</u> |   | <u>Fall</u> | <u>Spring</u> |
|--------------------|---|-------------|---------------|
| Dept. Level        | Physical Sciences <sup>1</sup>                    | 3           | 3             |
| GE-B               | Social Science (select) <sup>2</sup>              | -           | 3             |
| GE-C               | Humanities (select) <sup>2</sup>                  | 3           | -             |
| GE-D 152 or 153    | Interpersonal Communication<br>or Public Speaking | 3           | -             |
| GE-E               | Human Health and Well Being (select) <sup>2</sup> | -           | 2             |
| FL                 | Foreign Language <sup>3</sup>                     | 4           | 4             |
| MATH 221           | Linear Algebra                                    | -           | 3             |
| MATH 251           | Calculus II                                       | 3           | -             |
|                    |   | <u>16</u>   | <u>15</u>     |

\*See also the programs (B.A. and B.S.) under College of Liberal Arts and College of Education.

<sup>1</sup>The College of Science requires six semester hours in departmental (not 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 306, 307, 308, 309; Chemistry 115, 140, 222; Geology 220; Physics 203, 205, 253, 255. Physics 205, 255 are recommended for mathematics majors. See list of approved substitutions for specifics.

<sup>2</sup>See section on General Education for the transfer student.

<sup>3</sup>The College of Science requires one year (8 semester hours) of foreign language. French, German, or Russian is recommended. One semester of foreign language will substitute as GE-C humanities credit.

**Mathematics As A Major**

Most students majoring in mathematics begin their college mathematics with Calculus I. A Pre-Calculus course is available for students who need to review algebra and trigonometry, and an honors calculus sequence is available for qualified students. All mathematics major courses are taught in small sections, and a wide choice of mathematics courses is available at the junior and senior level. You may choose your program to prepare yourself for mathematical research, for teaching, or for a career in business, industry or government. There is a current shortage of mathematics teachers, and many non-teaching careers are also available. For example, prospects are excellent for statisticians and for actuaries in the insurance and pension-fund fields. A minor is recommended in some field of application such as science, economics, business or computer science. Mathematics is also a good major choice for pre-law, pre-med, and pre-business administration students.

The Department of Mathematics has master's and Ph.D. degree programs.

Students must earn a grade of C or better in each mathematics course to be counted toward major requirements.  
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, Computing Analyst, Information Scientist, Accounting Trainee, 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) <sup>1,2</sup>                 | -    | 3      |
| GE-C           | Humanities (select) <sup>1,2</sup>                      | 3    | 3      |
| GE-D 101 & 118 | English Comp. & Technical Report Writing <sup>1,2</sup> | 3    | 2      |
| GE-E           | Human Health and Well Being (select) <sup>1</sup>       | -    | 2      |
| CHEM 222a,c    | Intro. to Chemical Principles and Lab <sup>3</sup>      | 4    | 3      |
| MATH 150, 250  | Calculus I & II <sup>3</sup>                            | 4    | 4      |
|                |   | 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 115       | Introductory Biology <sup>2</sup>                       | 3    | -      |
| GE-B           | Social Studies (select) <sup>1,2</sup>                  | -    | 3      |
| GE-C           | Humanities (select) <sup>1,2</sup>                      | -    | 3      |
| GE-D 153       | Public Speaking <sup>1,2</sup>                          | 3    | -      |
| MATH 251, 305  | Calculus III and Differential Equations I               | 3    | 3      |
| PHYS 205a,b    |   |      |        |
| 255a,b         | University Physics and Lab <sup>3</sup>                 | 4    | 4      |
|                |   | 17   | 16     |

<sup>1</sup> See General Education for the Transfer Student. Transfer students without a baccalaureate-oriented associate degree will be required to take some specific general education courses. It is recommended that such students contact the College of Engineering and Technology Advisement Office for information on approved General Education courses.

<sup>2</sup> Due to accreditation standards, those students transferring with a baccalaureate-oriented associate degree must have 16 semester hours of Social Sciences and Humanities; six or seven semester hours of oral and written communications, and 18 semester hours of basic science. A 300 level Social Science or Humanities course must be taken at SIUC or at another senior level institution. This 300 level course must build on a discipline already completed. Because of this accreditation requirement, in most cases, a maximum of 13 semester hours of Social Sciences and Humanities will be counted toward this 16 hour requirement.

<sup>3</sup> Substitutes 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 engineering used in determining the major grade point averages are courses with the prefix ENGR, CE, EE, EM, ME, and MNGE. This is part of the College's Retention Policy.

Transfer students from community colleges or other institutions should have strong backgrounds in the physical sciences, mathematics, social sciences, and humanities. Students are encouraged to complete specific freshman and sophomore course requirements which include 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. Donald Tindall  
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 microbial physiology, virology, immunology, genetics, biochemistry and industrial processes are available.

| <u>First Year</u>              |  | <u>Fall</u> | <u>Spring</u> |
|--------------------------------|--|-------------|---------------|
| FL                             | Foreign Language <sup>1,3</sup>                    | 4           | 4             |
| CHEM 222a,b                    | Introduction to Chemical Principles <sup>1,3</sup> | 4           | 4             |
| MATH 110a,b                    |  |             |               |
| or 111                         | College Algebra and Trigonometry <sup>1,3</sup>    | 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                        | <u>1</u>    | <u>1</u>      |
|                                |  | 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) <sup>1,2</sup>                    | -           | 3             |
| CHEM 344, 345,<br>and 346, 347 | Organic Chemistry and Lab                          | 6           | 5             |
| PHYS 203a,b<br>and 253a,b      | College Physics and Lab                            | 4           | 4             |
| GE-E                           | Human Health and Well Being (select)               | -           | 1             |
|                                |  | 17          | 16            |

<sup>1</sup> Approved substitutes for General Education.

<sup>2</sup> Any one of Biology 306, 307, 308, 309.

<sup>3</sup> Students in the College of Science must take one year of foreign language, one year of math, six semester hours of physical sciences, and six semester hours of biological sciences.

Third and Fourth Years

The student fulfills remaining General Education requirements, and chooses electives in microbiology to match his or her professional interests. The Department of Microbiology offers specialty courses in microbial genetics, microbial physiology/biochemistry, medical microbiology, immunology, virology and bacterial diversity.

Microbiology As A Major

Opportunities for microbiologists with four years of university training are numerous and varied. Careers are available in such fields as 1) pharmaceutical industries involving the discovery and production of antibiotics and other therapeutic drugs, and the discovery, production and design of vaccines possibly effective even against cancer; 2) the food and beverage industries in areas such as research and development, microbial fermentations, and quality control; 3) clinical, veterinary and public health and university laboratories; 4) the exciting field of recombinant DNA and other areas of biotechnology based on microbiology. Biotechnology has applications in industry and pure research to make vaccines, hormones, and alter the genetic constitution of plants and animals. Teaching and research opportunities exist at the university level for the holder of the doctoral degree. A microbiologist planning a teaching career at the secondary school level should acquire a broad background in general biology. In addition to the academic career, high salaried positions are available in many local, state and federal agencies as well as in industry for the microbiologist with a good capacity for pure or applied research.

Representative First Job Titles: Laboratory Technician, Biostatistician, Embryologist, Genetics Research Technician, Serologist, Histologist, Cytologist, Parasitologist, Virologist, Microbiology Researcher, Wine Chemist, Fishery Bacteriologist, Quality Control Specialist, Biological Photography Staff, Manufacturer's Representative, Public Health Officer.



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.

| <u>First Year</u>  |   | <u>Fall</u>    | <u>Spring</u>  |
|--------------------|---|----------------|----------------|
| ENGR 100           | Introduction to Engineering                             | 3              | -              |
| GE-B               | Social Sciences (select) <sup>1,2</sup>                 | -              | 3              |
| GE-C               | Humanities (select) <sup>1,2</sup>                      | 3              | 3              |
| GE-D 101 & 118     | English Comp. & Technical Report Writing <sup>1,2</sup> | 3              | 2              |
| GE-E               | Human Health and Well Being (select) <sup>1</sup>       | -              | 2              |
| CHEM 222a,c        | Intro. to Chemical Principles and Lab <sup>3</sup>      | 4              | 3              |
| MATH 150, 250      | Calculus I & II <sup>3</sup>                            | <u>4</u><br>17 | <u>4</u><br>17 |
| <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 115           | Introductory Biology <sup>2</sup>                       | 3              | -              |
| GE-B               | Social Studies (select) <sup>1,2</sup>                  | -              | 3              |
| GE-C               | Humanities (select) <sup>1,2</sup>                      | -              | 3              |
| GE-D 153           | Public Speaking <sup>1,2</sup>                          | 3              | -              |
| MATH 251, 305      | Calculus III and Differential Equations I               | 3              | 3              |
| PHYS 205a,b        |   |                |                |
| 255a,b             | University Physics and Lab <sup>3</sup>                 | <u>4</u><br>17 | <u>4</u><br>16 |

<sup>1</sup>See General Education for the Transfer Student. Transfer students without a baccalaureate-oriented associate degree will be required to take some specific general education courses. It is recommended that such students contact the College of Engineering and Technology Advisement Office for information on approved General Education courses.

<sup>2</sup>Due to accreditation standards, those students transferring with a baccalaureate-oriented associate degree must have 16 semester hours of Social Sciences and Humanities; six or seven semester hours of oral and written communications, and 18 semester hours of basic science. A 300 level Social Science or Humanities course must be taken at SIUC or at another senior level institution. This 300 level course must build on a discipline already completed. Because of this accreditation requirement, in most cases, a maximum of 13 semester hours of Social Sciences and Humanities will be counted toward this 16 hour requirement.

<sup>3</sup>Substitutes 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 engineering used in determining the major grade point averages are courses with the prefix ENGR, CE, EE, EM, ME, and MNGE. This is part of the College's Retention Policy.

Transfer students from community colleges or other institutions should have strong backgrounds in the physical sciences, mathematics, social sciences, and humanities. Students are encouraged to complete specific freshman and sophomore course requirements which include 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  
 Ext. 254  
 STC Building, Room 18C

SIUC offers the only university affiliated Mortuary Science and Funeral Service program in the State of Illinois.

Licensing and qualification requirements vary from state to state since laws governing the profession are enacted at a state level. Licensure in one state does not assume automatic qualification in another but many state boards have some reciprocal agreements with other states.

| First Year  |                                     | Fall      | Spring    |
|-------------|-------------------------------------|-----------|-----------|
| GE-A 115    | Biology                             | 3         | -         |
| GE-B 202    | Introduction to Psychology          | 3         | -         |
| GE-D 101    | English Composition                 | 3         | -         |
| GE-D 102    | English Composition                 | -         | 3         |
| 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>17</u> |
| Second Year |                                     | Fall      | Spring    |
| GE-A 106    | Chemistry for Non-Science Majors    | 3         | -         |
| 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>15</u> | <u>16</u> |
|             |                                     | Summer    |           |
| 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 Pre-Mortuary Science and Funeral Service 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.

*MUSIC*<sup>1</sup>  
College of Communications and Fine Arts  
(Bachelor of Arts)

Dr. Robert Roubos, Director  
Telephone - 618-536-7505  
Altgeld Hall, Room 105

Charles Fligel, Advisor  
Telephone 618-536-7505  
Altgeld Hall, Room 101

The Bachelor of Arts program is designed to provide a basis for various part time and musically related careers such as church music, popular music, private applied teaching, and occupations within the field of music industry and communications. Ordinarily, additional study, comparable to the Bachelor of Music curriculums offered in the College of Communications and Fine Arts, is necessary to qualify for a full time professional career in teaching, conducting, composition, or research.

The music major degree program is established in accordance with the published regulations of the National Association of Schools of Music, of which the School of Music is a member.

| <u>First Year</u> |   | <u>Fall</u> | <u>Spring</u> |
|-------------------|---|-------------|---------------|
| GE-A              | Science (select) <sup>2</sup>                     | 3           | 3             |
| GE-B              | Social Studies (select) <sup>2</sup>              | -           | 3             |
| GE-C              | Humanities (select) <sup>2</sup>                  | -           | 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) <sup>2</sup> | 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) <sup>2</sup>                     | 3           | -             |
| GE-B               | Social Studies (select) <sup>2</sup>              | -           | 3             |
| GE-D 152           | Interpersonal Communication                       | -           | 3             |
| GE-E               | Human Health and Well Being (select) <sup>2</sup> | 1           | 1             |
| GE-C               | Humanities (select) <sup>2</sup>                  | 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.

<sup>1</sup>See also music education program in the College of Education.

<sup>2</sup>To determine what courses may be taken to satisfy the general education requirements for this program, please refer to the section, General Education for the Transfer Student. Music 102-2 will count toward 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.

**MUSIC<sup>1</sup>**  
 (Instrumental Performance)  
 College of Communications and Fine Arts  
 (Bachelor of Music)

Dr. Robert Roubos, Director  
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 Altgeld Hall, Room 105

Charles Fligel, Advisor  
 Telephone 618-536-7505  
 Altgeld Hall, Room 101

The School of Music offers programs to prepare students for careers in musical performance, conducting, composition, teaching, research, and related areas in the music industry. It is assumed that students planning one of these careers will have had extensive pre-university experience in performing with school groups and/or as soloist, basic music reading ability, strong sensitivity to music, and a desire to communicate it to others.

The following illustrates the course of study to be followed during the first two years by those intending to pursue a career as an instrumentalist and/or private applied teacher. One wishing to attempt this specialization should, before the sophomore year, secure approval by the appropriate applied jury, and thereafter 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) <sup>2</sup>                     | -           | 3             |
| GE-C               | Humanities (select) <sup>2</sup>                  | -           | 3             |
| GE-D 101, 117      | English Composition; Expository Writing           | 3           | 2             |
| GE-E               | Human Health and Well Being (select) <sup>2</sup> | 2           | -             |
| *MUS 140           | Applied Music (principal instrument)              | 2           | 2             |
| *MUS 030a,b        | Piano Class <sup>3</sup>                          | 1           | 1             |
| *MUS               | Major Ensemble (see below)                        | 1           | 1             |
| *MUS 102           | Survey of Music Literature                        | 2           | -             |
| *MUS 104a,b        | Aural Skills                                      | 1           | 1             |
| *MUS 105a,b        | Basic Harmony                                     | 3           | 3             |
|                    |   | <u>15</u>   | <u>16</u>     |
| <u>Second Year</u> |   | <u>Fall</u> | <u>Spring</u> |
| GE-A               | Science (select) <sup>2</sup>                     | -           | 3             |
| GE-B               | Social Sciences (select) <sup>2</sup>             | -           | 3             |
| GE-D 107           | Intermediate Algebra                              | 3           | -             |
| GE-E               | Human Health and Well Being (select) <sup>2</sup> | 1           | 1             |
| *MUS 240           | Applied Music (principal instrument)              | 4           | 4             |
| *MUS 030c,d        | Class Piano <sup>3</sup>                          | 1           | 1             |
| *MUS               | 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.

<sup>1</sup>Music Education is also available in the College of Education.

<sup>2</sup>To determine what courses may be taken to satisfy the general education requirements for this program, please refer to the section, General Education for the Transfer Student. Music 102-2 will count toward GE-C requirements.

<sup>3</sup>Students with piano background may waive part or all of the piano class requirement, as justified by a proficiency examination.

#### Music As A Major

All freshmen and sophomores pursuing a baccalaureate degree program in music must maintain satisfactory membership each term in residence, in one of the following: Music 011-Marching Salukis, 013-Symphonic Band, 014-Concert Wind Ensemble, 017-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.

**MUSIC<sup>1</sup>**  
 (Jazz Performance)  
 College of Communications and Fine Arts  
 (Bachelor of Music)

Dr. Robert Roubos, Director  
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 Altgeld Hall, Room 105

Charles Fligel, Advisor  
 Telephone 618-536-7505  
 Altgeld Hall, Room 101

The School of Music offers programs to prepare students for careers in musical performance, conducting, composition, teaching, research, and related areas in the music industry. It is assumed that students planning one of these careers will have had extensive pre-university experience in performing with school groups and/or as soloist, basic music reading ability, strong sensitivity to music, and a desire to communicate it to others.

The following illustrates the course of study to be followed during the first two years by those intending to pursue a career as an instrumentalist and/or private applied teacher. One wishing to attempt this specialization should, before the sophomore year, secure approval by the appropriate applied jury, and thereafter enroll for and receive two half-hour lessons per week for 4 credits per term in applied music.

| <u>First Year</u>  |   | <u>Fall</u> | <u>Spring</u> |
|--------------------|---|-------------|---------------|
| GE-A               | Science (select) <sup>2</sup>                     | -           | 3             |
| GE-C               | Humanities (select) <sup>2</sup>                  | -           | 3             |
| GE-D 101           | English Composition                               | 3           | -             |
| *MUS 140           | Applied Music (principal instrument)              | 2           | 2             |
| *MUS 030           | Piano Class <sup>3</sup>                          | 1           | 1             |
| *MUS               | Ensemble  | 1           | 1             |
| *MUS 331           | Jazz Improvisation                                | 1           | 1             |
| *MUS 102           | Survey of Music Literature                        | 2           | -             |
| *MUS 104a          | Aural Skills                                      | 1           | 1             |
| *MUS 105a          | Basic Harmony                                     | 3           | 3             |
|                    |   | 14          | 15            |
| <u>Second Year</u> |   | <u>Fall</u> | <u>Spring</u> |
| GE-A               | Science (select) <sup>2</sup>                     | -           | 3             |
| GE-B               | Social Sciences (select) <sup>2</sup>             | -           | 3             |
| GE-D 107           | Intermediate Algebra                              | 3           | -             |
| GE-E               | Human Health and Well Being (select) <sup>2</sup> | 3           | -             |
| *MUS 240           | Applied Music (principal instrument)              | 4           | 4             |
| *MUS 030c          | Piano Class <sup>3</sup>                          | 1           | -             |
| *MUS 030d          | Piano Class (Jazz section) <sup>3</sup>           | -           | 1             |
| *MUS 331           | Jazz Improvisation                                | 1           | 1             |
| *MUS               | Ensemble  | 1           | 1             |
| *MUS 204           | Advanced Aural Skills                             | 1           | -             |
| *MUS 205           | Advanced Harmony                                  | 3           | -             |
| *MUS 207           | Counterpoint                                      | -           | 2             |
|                    |   | 17          | 15            |

\*Required courses for a major in music. Students who intend to transfer with an associate's degree from a community college should contact the Director of the School of Music well in advance to determine comparability of music classes and to avoid spending additional time completing the bachelor's degree.

<sup>1</sup> Music Education is also available in the College of Education.

<sup>2</sup> To determine what courses may be taken to satisfy the general education requirements for this program, please refer to the section, General Education for the Transfer Student. Music 102-2 will count toward GE-C requirements.

<sup>3</sup> Students with piano backgrounds may waive part or all of the piano class requirement, as justified by a proficiency examination.

#### Music As A Major

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:** Jazz Music Specialist, Jazz Band Artist, Jazz Music Conductor, Jazz Soloist, Studio Musician, Private Jazz Instructor, Jazz Composer and/or Arranger, Jazz Historian, and Jazz Theorist.



**MUSIC<sup>1</sup>**  
 (Keyboard Performance)  
 College of Communications and  
 Fine Arts  
 (Bachelor of Music)

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The School of Music offers programs to prepare students for careers in musical performance, conducting, composition, teaching, research, and related areas in the music industry. It is assumed that students planning one of these careers will have had extensive pre-university experience in performing with school groups and/or as soloist, basic music reading ability, strong sensitivity to music, and a desire to communicate it to others.

The following illustrates the course of study to be followed during the first two years by those intending to pursue a career as a keyboard performer and/or private applied teacher. One wishing to attempt this specialization should, before the sophomore year, secure approval by the appropriate applied jury, and thereafter enroll for and receive two half-hour lessons per week for 4 credits per term in applied music.

| <u>First Year</u>  |   | <u>Fall</u> | <u>Spring</u> |
|--------------------|---|-------------|---------------|
| GE-A               | Science (select) <sup>2</sup>                     | 3           | 3             |
| GE-B               | Social Studies (select) <sup>2</sup>              | -           | 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           | 1             |
|                    |   | 15          | 15            |
| <u>Second Year</u> |   | <u>Fall</u> | <u>Spring</u> |
| GE-A               | Science (select) <sup>2</sup>                     | 3           | -             |
| GE-C               | Humanities (select) <sup>2</sup>                  | -           | 3             |
| GE-D 152           | Interpersonal Communications                      | 3           | -             |
| GE-D 107           | Intermediate Algebra                              | -           | 3             |
| GE-E               | Human Health and Well Being (select) <sup>2</sup> | -           | 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             |
|                    |   | 15          | 15            |

\*Required courses for a major in Music. Students who intend to transfer with an associate's degree from a community college should contact the Director of the School of Music well in advance to determine comparability of music classes and to avoid spending additional time completing the bachelor's degree.

<sup>1</sup>Music Education is also available in the College of Education.

<sup>2</sup>To determine what courses may be taken to satisfy the general education requirements for this program, please refer to the section, General Education for the Transfer Student. Music 102-2 will count toward 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)

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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 <sup>3</sup> | 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) <sup>2</sup>                   | 2           | 1             |
| ECON 215                  | Introduction to Microeconomics <sup>1</sup>                         | -           | 3             |
| MUS                       | Major Ensemble <sup>4</sup>   | 1           | 1             |
| MUS 040-240               | Applied Music (principal instrument) <sup>4</sup>                   | 1           | 1             |
| MUS 102                   | Survey of Music Literature <sup>1,4</sup>                           | 2           | 1             |
| MUS 104 a,b               | Aural Skills <sup>4</sup>   | 1           | 1             |
| MUS 105 a,b               | Basic Harmony <sup>1,4</sup>  | 3           | 3             |
|                           |   | <u>16</u>   | <u>16</u>     |
| <u>Second Year</u>        |   | <u>Fall</u> | <u>Spring</u> |
| GE-A                      | Science (select) <sup>2</sup>                                       | 3           | -             |
| GE-B                      | Social Science (select) <sup>2</sup>                                | -           | 3             |
| GE-C                      | Humanities (select) <sup>2</sup>                                    | 3           | 3             |
| GE-D 152 or 153           | Interpersonal Communications<br>or Public Speaking                  | -           | 3             |
| GE-E                      | Human Health and Well Being (select) <sup>2</sup>                   | 1           | -             |
| ACCT 220, 230             | Principles of Accounting I,II <sup>4</sup>                          | 3           | 3             |
| MUS 030                   | Piano Class <sup>4</sup>  | 1           | 1             |
| MUS 031                   | Voice Class   | 1           | -             |
| MUS 032, 033,<br>032, 035 | String, Woodwind, Bass and Percussion<br>Techniques                 | 2           | 2             |
| MUS 040-240               | Applied Music (Principal Instrument)                                | 1           | 1             |
| MUS                       | Major Ensemble <sup>4</sup>   | 1           | 1             |
|                           |   | <u>18</u>   | <u>17</u>     |

<sup>1</sup>Approved substitutes for General Education.

<sup>2</sup>See Section on General Education for transfer students.

<sup>3</sup>Recommended but not required by major.

<sup>4</sup>Required by Music Major, music business specialization. Students who plan to transfer from community colleges with an associate's degree should complete comparable music courses in order to avoid spending extra time pursuing the bachelor's degree.

#### Music As A Major

Credits in one's principal applied field are based on (1) private lessons with a member of the faculty, (2) weekly participations in Studio hour (Mondays at 10:00 a.m.), and (3) recorded attendance each term at seven campus recitals or concerts, approved for the purpose by the School of Music faculty, in which the student is not a participant.

All freshmen and sophomores pursuing a baccalaureate degree program in music must maintain satisfactory membership each term in residence, in one of the following: Music 011 Marching Salukis, 013 Symphonic Band, 014 Concert Wind Ensemble, 017 Symphony, 020 University Chorus, 021 SIU Chorale, or 022 University Choir.

Representative First Job Titles: Music Marketing Specialist, Audio-Marketing, Management Trainee for Recording Studio, Fund Raiser for Opera Company, Instrument Sales, Management Agency Specialist.

**MUSIC<sup>1</sup>**  
 (Music Theory-Composition)  
 College of Communications and  
 Fine Arts  
 (Bachelor of Music)

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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) <sup>2</sup>                     | -           | 3             |
| GE-C               | Humanities (select) <sup>2</sup>                  | -           | 3             |
| GE-D 101, 117      | English Composition; Expository Writing           | 3           | 2             |
| GE-E               | Human Health and Well Being (select) <sup>2</sup> | 2           | -             |
| *MUS 140           | Applied Music (principal instrument)              | 2           | 2             |
| *MUS 030a,b        | Class Piano <sup>3</sup>                          | 1           | 1             |
| *MUS               | Major Ensemble (see below)                        | 1           | 1             |
| *MUS 102           | Survey of Music Literature                        | 2           | -             |
| *MUS 104a,b        | Aural Skills                                      | 1           | 1             |
| *MUS 105a,b        | Basic Harmony                                     | 3           | 3             |
|                    |   | 15          | 16            |
| <u>Second Year</u> |   | <u>Fall</u> | <u>Spring</u> |
| GE-A               | Science (select) <sup>2</sup>                     | 3           | 3             |
| GE-C               | Humanities (select) <sup>2</sup>                  | -           | 3             |
| GE-D 107           | Intermediate Algebra                              | 3           | -             |
| GE-E               | Human Health and Well Being (select) <sup>2</sup> | 1           | 1             |
| *MUS 240           | Applied Music (principal instrument)              | 2           | 2             |
| *MUS 030c,d        | Class Piano <sup>3</sup>                          | 1           | 1             |
| *MUS 204           | Advanced Aural Skills                             | 1           | -             |
| *MUS 205           | Advanced Harmony                                  | 3           | -             |
| *MUS 207           | Contrapuntal Techniques                           | -           | 2             |
| *MUS 280           | Beginning Composition                             | 2           | 2             |
|                    |   | 16          | 14            |

\*Required courses for a major in Music. Students who intend to transfer with an associate's degree from a community college should contact the Director of the School of Music well in advance to determine comparability of classes and to avoid spending additional time completing the bachelor's degree.

<sup>1</sup> Music Education is also available in the College of Education.

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

<sup>3</sup> Students with piano background may waive part or all of the piano class requirement, as justified by a proficiency examination.

Music As A Major

Credits in one's principal applied field are based on (1) private lessons with a member of the faculty, (2) weekly participation in Studio Hour (Mondays at 10:00 a.m.), and (3) recorded attendance each term at seven campus recitals or concerts, approved for the purpose by the School of Music faculty, in which the student is not a participant.

All freshmen and sophomores pursuing a baccalaureate degree program in music must maintain satisfactory membership each term in residence, in one of the following: Music 011-Marching Salukis, 013-Symphonic Band, 014-Concert Wind Ensemble, 017-Symphony, 020-University Chorus, 021-SIU Chorale, or 022-University Choir.

Representative First Job Titles: Classical Music Specialist, Composer, Arranger, Music Theory Specialist.

**MUSIC<sup>1</sup>**  
(Piano Pedagogy)  
College of Communications and Fine Arts  
(Bachelor of Music)

Dr. Robert Roubos, Director  
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The School of Music offers programs to prepare students for careers in musical performance, conducting, composition, teaching, research, and related areas in the music industry. It is assumed that students planning one of these careers will have had extensive pre-university experience in performing with school groups and/or as soloist, basic music reading ability, strong sensitivity to music, and a desire to communicate it to others.

The following illustrates the course of study to be followed during the first two years by those intending to pursue a career as a pianist and/or applied piano teacher. One wishing to attempt this specialization should, before the sophomore year, secure approval by the appropriate applied jury, and thereafter enroll for and receive two half-hour lessons per week for 4 credits per term in applied music.

| <u>First Year</u>  |   | <u>Fall</u> | <u>Spring</u> |
|--------------------|---|-------------|---------------|
| GE-A               | Science (select) <sup>2</sup>                     | 3           | -             |
| GE-C               | Humanities (select) <sup>2</sup>                  | -           | 3             |
| GE-B               | Social Sciences (select) <sup>2</sup>             | -           | 3             |
| GE-D 101           | English Composition                               | 3           | -             |
| GE-D 117           | Expository Writing                                | -           | 2             |
| *MUS 140Q          | Applied Piano                                     | 2           | 2             |
| *MUS 030a,b        | Seminar   | 1           | 1             |
| *MUS               | Ensemble  | 1           | 1             |
| *MUS 102           | Survey of Music Literature                        | 2           | -             |
| *MUS 104a          | Aural Skills                                      | 1           | 1             |
| *MUS 105a          | Basic Harmony                                     | 3           | 3             |
|                    |   | <u>16</u>   | <u>16</u>     |
| <u>Second Year</u> |   | <u>Fall</u> | <u>Spring</u> |
| GE-A               | Science (select) <sup>2</sup>                     | -           | 3             |
| GE-D 107           | Intermediate Algebra                              | 3           | -             |
| GE-E               | Human Health and Well Being (select) <sup>2</sup> | -           | 2             |
| GE-D 152           | Speech  | 3           | -             |
| *MUS 240           | Applied Music                                     | 4           | 4             |
| *MUS 030c,d        | Seminar   | 1           | 1             |
| *MUS 040Q          | Keyboard Musicianship                             | -           | 2             |
| *MUS               | Ensemble  | 1           | 1             |
| *MUS 204           | Advanced Aural Skills                             | 1           | -             |
| *MUS 205           | Advanced Harmony                                  | 3           | -             |
| *MUS 207           | Counterpoint                                      | -           | 2             |
|                    |   | <u>16</u>   | <u>15</u>     |

\*Required courses for a major in music. Students who intend to transfer with an associate's degree from a community college should contact the Director of the School of Music well in advance to determine comparability of music classes and to avoid spending additional time completing the bachelor's degree.

<sup>1</sup> Music Education is also available in the College of Education.

<sup>2</sup> To determine what courses may be taken to satisfy the general education requirements for this program, please refer to the section, General Education for the Transfer Student. Music 102-2 will count toward GE-C requirements.

#### Music As A Major

All freshmen and sophomores pursuing a baccalaureate degree program in music must maintain satisfactory membership each term in residence, in one of the following: Music 011-Marching Salukis, 013-Symphonic Band, 014-Concert Wind Ensemble, 017-Sumphony, 020-University Chorus, 021-SIU Chorale, or 022-University Choir.

**Representative First Job Titles:** Private Applied Piano Instructor, Classroom Piano Teacher, Piano Soloist, Piano Accompanist, Symphony Orchestra Artist, Composer/Arranger, and Church Pianist.

**MUSIC<sup>1</sup>**  
 (Vocal Performance)  
 College of Communications and  
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The School of Music offers programs to prepare students for careers in musical performance, conducting, composition, teaching, research, and related areas in the music industry. It is assumed that students planning one of these careers will have had extensive pre-university experience in performing with school groups and/or as soloist, basic music reading ability, strong sensitivity to music, and a desire to communicate it to others.

The following illustrates the course of study to be followed during the first two years by those intending to pursue a career as a singer and/or private applied teacher. One wishing to attempt this specialization should, before the sophomore year, secure approval by the appropriate applied jury, and thereafter enrolls for and receives two half-hour lessons per week for 4 credits per term in applied music.

| First Year    |   | Fall | Spring |
|---------------|---|------|--------|
| GE-D 101, 117 | English Composition; Expository Writing           | 3    | 2      |
| GE-D 107      | Intermediate Algebra                              | -    | 3      |
| GE-E          | Human Health and Well Being (select) <sup>2</sup> | 2    | 1      |
| *MUS 140P     | Applied Music (voice)                             | 2    | 2      |
| *MUS 030a,b   | Piano Class <sup>3</sup>                          | 1    | 1      |
| *MUS          | Major Ensemble (see below)                        | 1    | 1      |
| *MUS 102      | Survey of Music Literature                        | 2    | -      |
| *MUS 104a,b   | Aural Skills                                      | 1    | 1      |
| *MUS 105a,b   | Basic Harmony                                     | 3    | 3      |
|               |   | 15   | 14     |

| Second Year |   | Fall | Spring |
|-------------|---|------|--------|
| GE-A        | Science (select) <sup>2</sup>                     | -    | 3      |
| GE-E        | Human Health and Well Being (select) <sup>2</sup> | 1    | -      |
| *FOR LANG   | French or German                                  | 4    | 4      |
| *MUS 240P   | Applied Music (voice)                             | 4    | 4      |
| *MUS 030c,d | Class Piano <sup>3</sup>                          | 1    | 1      |
| *MUS        | Major Ensemble (see below)                        | 1    | 1      |
| *MUS 204    | Advanced Aural Skills                             | 1    | -      |
| *MUS 205    | Advanced Harmony                                  | 3    | -      |
| *MUS 207    | Contrapuntal Techniques                           | -    | 2      |
|             |   | 15   | 15     |

\*Required courses for a major in Music. Students who intend to transfer with an associate's degree from a community college should contact the Director of the School of Music well in advance to determine comparability of music classes and to avoid spending additional time completing the bachelor's degree.

<sup>1</sup> Music Education is also available in the College of Education.

<sup>2</sup> To determine what courses may be taken to satisfy the general education requirements for this program, please refer to the section, General Education for the Transfer Student. Music 102-2 and the second semester of foreign language count toward GE-C requirements.

<sup>3</sup> Students with piano background may waive part or all of the piano class requirement, as justified by a proficiency examination.

#### Music As A Major

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 EDUCATION<sup>1</sup>

(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

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

The School of Music offers programs to prepare students for careers in musical performance, conducting, composition, teaching, research, and related areas in the music industry. It is assumed that students planning one of these careers will have had extensive pre-university experience in performing with school groups and/or as soloist, basic music reading ability, strong sensitivity to music, and a desire to communicate it to others.

| <u>First Year</u> |                                      | <u>Fall</u> | <u>Spring</u> |
|-------------------|--------------------------------------|-------------|---------------|
| GE-A              | Science (select) <sup>2</sup>        | 3           | 3             |
| GE-B              | Social Science (select) <sup>2</sup> | -           | 3             |
| GE-D 101          | English Composition                  | 3           | -             |
| GE-D 117, 118     |                                      |             |               |
| or 119            | Writing (select) <sup>2</sup>        | -           | 2             |
| GE-E 201          | Healthful Living                     | 2           | -             |
| *MUS 030a,b       | Piano Class <sup>3</sup>             | 1           | 1             |
| *MUS 102          | Survey of Music Literature           | -           | 2             |
| *MUS 104a,b       | Aural Skills                         | 1           | 1             |
| *MUS 105a,b       | Basic Harmony                        | 3           | 3             |
| *MUS 140          | Applied Music (principal instrument) | 2           | 2             |
| *MUS              | Major Ensemble (see below)           | 1           | 1             |
|                   |                                      | 16          | 18            |

| <u>Second Year</u> |   | <u>Fall</u> | <u>Spring</u> |
|--------------------|---|-------------|---------------|
| GE-A               | Science (select) <sup>2</sup>                         | 3           | -             |
| GE-B 202           | Introduction to Psychology                            | -           | 3             |
| GE-B 212 or 301    | American Government or U.S. History                   | 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 <sup>3</sup> (for choral Music Education) | (1)         | (1)           |
| *MUS 204 & 205     | Advanced Aural Skills                                 | 4           | -             |
| *MUS 240           | Applied Music (principal instrument)                  | 2           | 2             |
| *MUS               | Major Ensemble (see below)                            | 1           | 1             |
|                    |   | 16 (17)     | 17 (18)       |

\*Required courses for a major in Music. Students who intend to transfer with an associate's degree from a community college should contact the Director of Music well in advance to determine the comparability of music classes and to avoid spending additional time completing the bachelor's degree.

<sup>1</sup>Music education curriculums are available in both the College of Communication and Fine Arts and the College of Education.

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

<sup>3</sup>Students with piano background may waive part or all of the piano class requirement, as justified by a proficiency examination.

The following courses are required for Teacher Certification: 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.

**PARALEGAL STUDIES FOR LEGAL ASSISTANTS**  
 College of Liberal Arts  
 (Bachelor of Science)

Dr. M. Browning Carrott  
 Director  
 Telephone - 618-453-4391  
 Faner Hall, Room 3280

The Paralegal Studies Program, leading to a B.S. degree in Paralegal Studies in the College of Liberal Arts, will prepare the graduate to function as a paraprofessional in the legal profession and as a legal assistant, whether in private practice, legal aid offices, or the law-related operations of business, industry, education, or government.

In overall philosophy, as well as in curriculum content and format, the Paralegal Studies Program follows the lead of the American Bar Association Special Committee on Legal Assistants in its "Proposed Curriculum for the Training of Law Office Personnel."

The program has two components:

1. A core of legal specialty courses and administration related courses designed to provide career specificity and professional competency.
2. A range of social science, humanities, and communication skills courses designed to provide a spirit of inquiry and a depth of vision of the various contexts within which the paralegal's professional life will take place.

In addition, the student must meet all University requirements as well as appropriate College of Liberal Arts requirements.

| <u>First Year</u>                      |   | <u>Fall</u> | <u>Spring</u> |
|--|---|-------------|---------------|
| GE-A                                   | Science (select) <sup>1</sup>                           | 3           | 3             |
| GE-B                                   | Social Studies (select) <sup>1</sup>                    | 3           | -             |
| GE-B 212                               | Intro. to American Government & Politics <sup>1,2</sup> | -           | 3             |
| GE-C                                   | Humanities (select)                                     | 3           | -             |
| GE-D 101 & 117,<br>118 or 119          | English Composition and Writing                         | 3           | 2             |
| GE-D 107                               | Intermediate Algebra <sup>1</sup>                       | -           | 3             |
| Foreign Language (select) <sup>4</sup> |   | <u>4</u>    | <u>4</u>      |
|  |   | 16          | 15            |
| <u>Second Year</u>                     |   | <u>Fall</u> | <u>Spring</u> |
| GE-A                                   | Science (select) <sup>1</sup>                           | 3           | -             |
| GE-B                                   | Social Studies (select) <sup>1</sup>                    | 3           | -             |
| GE-C                                   | Humanities (select) <sup>1</sup>                        | 3           | -             |
| GE-D 152 or                            | Interpersonal Communications <sup>1,2</sup> or          |             |               |
| GE-D 153                               | Public Speaking <sup>1,2</sup>                          | -           | 2-3           |
| GE-E                                   | Human Health and Well Being <sup>1</sup>                | 2           | 2             |
| ACCT                                   | Accounting <sup>3</sup>                                 | 3           | -             |
| CIP 109 or                             | Computer Information Processing or                      |             |               |
| CS 102                                 | Computers in Society                                    | -           | 3             |
| ENG 290                                | Intermediate Expository Writing <sup>3,5</sup>          | -           | 3             |
| SCR 220                                | Legal Documents Production                              | <u>-</u>    | <u>4</u>      |
|  |   | 14          | 14-15         |

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

<sup>2</sup>Recommended but not required for major.

<sup>3</sup>Required by the major.

<sup>4</sup>Two semesters (which is generally eight hours) of a foreign language are required for all Liberal Arts students who entered college anywhere Fall 1978 or later. However, four of these hours may be used for GE-C credit.

<sup>5</sup>Computer Science 102 and English 290 may be used toward partial fulfillment of the Liberal Arts requirements.

Representative First Job Titles: Legal Assistant, Paralegal.

The Philosophy Department offers a broad range of courses covering the areas of ethics, aesthetics, logic, metaphysics, the history of both Western and Oriental philosophy, as well as art, education, history, and religion.

| <u>First Year</u>     |   | <u>Fall</u> | <u>Spring</u> |
|-----------------------|---|-------------|---------------|
| GE-A                  | Science (select) <sup>1</sup>                           | 3           | 3             |
| GE-B                  | Social Science (select) <sup>1</sup>                    | 3           | 3             |
| GE-C 102 or 208       | Problems in Philosophy or Elementary Logic <sup>2</sup> | -           | 3             |
| GE-D 101 & 117,       |   |             |               |
| 118 or 119            | English Composition and Writing (select) <sup>1</sup>   | 3           | 2             |
| GE-D 107              | Intermediate Algebra                                    | 3           | -             |
| GE-E                  | Human Health and Well Being (select) <sup>1</sup>       | 2           | 2             |
| MATH or CS            | Mathematics or Computer Science <sup>3</sup>            | -           | 3             |
|                       |   | 14          | 16            |
| <u>Second Year</u>    |   | <u>Fall</u> | <u>Spring</u> |
| GE-A                  | Science (select) <sup>1</sup>                           | 3           | -             |
| GE-B                  | Social Science (select) <sup>1</sup>                    | 3           | -             |
| FL                    | Foreign Language <sup>4</sup>                           | 4           | 4             |
| GE-C 104 or 213       | Moral Decision or E. Asian Civilization                 | -           | 3             |
| GE-D 152 or 153       | Interpersonal Communication<br>or Public Speaking       | 3           | -             |
| PHIL 304              | Ancient Philosophy <sup>5</sup>                         | 3           | -             |
| PHIL 305              | Modern Philosophy <sup>5</sup>                          | -           | 3             |
| ENG COMP <sup>3</sup> | English Composition (above 100 level)                   | -           | 3             |
| Elective <sup>6</sup> |   | -           | 3             |
|                       |   | 16          | 16            |

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

<sup>2</sup>No more than two courses or six hours on the 100 and 200 level will count toward the major.

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

<sup>4</sup>Two semesters (which is generally eight hours) of a foreign language are required for all Liberal Arts students who entered college Fall 1978 or later. However, four of these hours may be used for GE-C credit.

<sup>5</sup>Required course for a major in Philosophy.

<sup>6</sup>Elective hours should be used to explore areas of interest and enhance career opportunities; or courses may be selected to satisfy Liberal Arts requirements (see College of Liberal Arts section).

#### Philosophy As A Major

The program in philosophy is an excellent background for future work in law schools, 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 is a two-year Associate Degree program within the School of Technical Careers, Southern Illinois University.

Served by an advisory committee of professionals active in the photographic and photo-finishing industry, the program is designed to prepare students for careers in industrial, commercial and private photography, and photofinishing organizations.

Through active involvement in professional organizations, Photo Marketing Association International and Professional Photographers of America, the techniques and processes included in the instructional program are current and consistent with industrial needs.

Students will be involved in photographic processes and techniques in lecture/laboratory sessions, tour industrial and commercial installations, and be involved in actual production needs of the University's Photographic Services division which is operated by the Photographic Production Technology program.

During the two-year program, students will be involved with all facets of photography and photo finishing. Students should expect to spend approximately \$700 for materials and chemicals. In addition, each student is to provide their own fully-adjustable camera.

Some of the advantages of the program are the diversity of actual photographic assignments and photofinishing production assignments to be performed meeting the needs of a major university community, and the flexibility which it provides in career opportunities. A Bachelor's degree program through the School of Technical Careers is also available for those completing the Associate degree.

| <u>First Year</u> |                                  | <u>Fall</u> | <u>Spring</u> |
|-------------------|----------------------------------|-------------|---------------|
| GE-A 106          | Chemistry for Non-Science Majors | 3           | -             |
| SCR 100           | Typewriting                      | -           | 3             |
| GE-D 101          | English Composition              | -           | 3             |
| PPT 111           | Photo Processing I               | 4           | -             |
| PPT 113           | Photo Processing II              | 4           | -             |
| PPT 115           | Photo Processing Equipment       | 4           | -             |
| PPT 209           | Graphics for Photography         | -           | 4             |
| PPT 211           | Photo Processing III             | -           | 6             |
| STC 105a          | Technical Mathematics            | 2           | -             |
|                   |                                  | <u>17</u>   | <u>16</u>     |

| <u>Second Year</u> |                             | <u>Fall</u> | <u>Spring</u> |
|--------------------|-----------------------------|-------------|---------------|
| GE-D 152           | Interpersonal Communication | -           | 3             |
| GE-B 211           | Contemporary Economics      | -           | 3             |
| EDP 101            | Intro Data Processing       | 3           | -             |
| PPT 215            | Photo Processing IV         | 6           | -             |
| PPT 221            | Photo Processing V          | 6           | -             |
| PPT 251a           | Photo Lab Mgt. (lecture)    | -           | 3             |
| PPT 251b           | Photo Lab Mgt. (lab)        | -           | 6             |
|                    |                             | <u>15</u>   | <u>15</u>     |

Total of 63 Semester Hours.

Core courses (9-100 + 200 level courses, 43 hours)

Supportive courses (7 general education, 20 hours)

Photographic Production Technology As A Major

The associate degree program can be completed in two academic years at SIUC or in combination with community college or other acceptable educational experiences.

PHYSICAL EDUCATION  
College of Education  
(Bachelor of Science)

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

Michael Wade  
Chairperson  
Telephone - 618-536-2431  
Davies Gymnasium, Room 106

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 <sup>2</sup> | -           | 3             |
| GE-B 202           | Introduction to Psychology <sup>2</sup>                                  | 3           | -             |
| GE-C               | Humanities (select) <sup>1</sup>   | 3           | 3             |
| GE-D 101           | English Composition <sup>2</sup>   | 3           | -             |
| GE-D 117, 118      |  |             |               |
| or 119             | Writing (select) <sup>1,2</sup>  | -           | 2             |
| GE-D 107           | Intermediate Algebra   | -           | 3             |
| GE-E 201           | Healthful Living <sup>2</sup>  | 2           | -             |
| Electives          |  | <u>1</u>    | <u>4</u>      |
|                    |  | 15          | 15            |
| <u>Second Year</u> |  | <u>Fall</u> | <u>Spring</u> |
| GE-A               | Science (select) <sup>1</sup>  | 3           | 3             |
| GE-B               | Social Science (select) <sup>1</sup>                                     | 3           | -             |
| GE-C               | English Elective in Humanities (required) <sup>2</sup>                   | -           | 3             |
| GE-D 153           | Public Speaking <sup>2</sup>   | 2           | -             |
| GE-E               | Human Health and Well Being <sup>2</sup>                                 | -           | 2             |
| PE                 | Electives  | 7           | 7             |
| PHSL               | Physiology <sup>3</sup>  | -           | 3             |
|                    |  | <u>15</u>   | <u>15</u>     |

<sup>1</sup>Refer to the section General Education for Transfer Students.

<sup>2</sup>The following courses are required for teacher certification: 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).

<sup>3</sup>A course in physiology approved by the department.

Physical Education As A Major

GPA 2.50 minimum for Teacher Education Program.

A secondary concentration (the student may select the area) is recommended.

Refer to the Undergraduate Catalog for specific major requirements.

Minors are available in Aquatics, Athletic Training, and Coaching.



### PHYSICAL EDUCATION

Athletic Training Specialization  
College of Education  
(Bachelor of Science)

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

Michael Wade, Chairperson  
Physical Education  
Telephone - 618-536-2431  
Davies Gymnasium, Room 106

The Athletic Training program is designed to train students to provide exemplary first-aid care for student-athletes, and administer rehabilitation, therapeutic treatment, and preventative conditioning programs under the supervision of a physician. This program prepares graduates for careers as Athletic Trainers in public schools, colleges and private and industrial settings.

| <u>First Year</u>  |   | <u>Fall</u> | <u>Spring</u> |
|--------------------|---|-------------|---------------|
| GE-A 101           | Conceptual Insights into Modern Communication Systems | 3           | -             |
| GE-B 202           | Introduction to Psychology                            | -           | 3             |
| GE-C               | Humanities (select) <sup>1</sup>                      | 3           | -             |
| GE-D 101           | English Composition                                   | 3           | -             |
| GE-D 107           | Intermediate Algebra                                  | 3           | -             |
| GE-D 118           | Technical Report Writing <sup>3</sup>                 | -           | 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) <sup>1</sup>                  | 3           | 3             |
| GE-C               | Humanities (select) <sup>1</sup>                      | 3           | 3             |
| GE-D 153           | Public Speaking                                       | 3           | -             |
| GE-E 201           | Healthful Living <sup>3</sup>                         | -           | 2             |
| PHSL               | Physiology (including Lab) <sup>2</sup>               | -           | 4             |
| GE-E 236           | Nutritional Ecology                                   | 2           | 4             |
|                    |   | <u>15</u>   | <u>16</u>     |

<sup>1</sup>Refer to the section General Education for Transfer Students.

<sup>2</sup>A course in physiology approved by the department.

<sup>3</sup>Required for this major.

### Physical Education Athletic Training Specialization

Refer to the Undergraduate Catalog for specific major requirements.

Major GPA required is 2.50.

Students interested in either the athletic training major or minor should apply in the Physical Education Department in Davies Gym. Enrollment is limited.

PHYSICAL EDUCATION

Exercise Science and Physical Fitness  
Specialization  
College of Education  
(Bachelor of Science)

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

Michael Wade, Chairperson  
Physical Education  
Telephone - 618-536-2431  
Davies Gymnasium, Room 106

This program is designed for students who wish to direct physical fitness programs in private, industrial and public settings. Preparation in this program enables the graduate to assess components of adult fitness, design individual exercise programs for the development and maintenance of physical fitness, and manage a physical fitness program. Graduates will have the foundation for continued study at the graduate level.

| <u>First Year</u>  |                                      | <u>Fall</u> | <u>Spring</u> |
|--------------------|--------------------------------------|-------------|---------------|
| GE-A 115           | Biology                              | 3           | -             |
| GE-B 202           | Introduction to Psychology           | -           | 3             |
| GE-B               | Social Science (select) <sup>1</sup> | 3           | -             |
| GE-C               | Humanities (select) <sup>1</sup>     | 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>15</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) <sup>1</sup> | -           | 3             |
| GE-C               | Humanities (select) <sup>1</sup>     | 3           | 3             |
| GE-D 110           | Basic Applications of Statistics     | -           | 3             |
| GE-D 153           | Public Speaking                      | 3           | -             |
| GE-E               | Human Health and Well Being          | -           | 2             |
| PHSL 208 & 209     | Principles of Physiology and Lab     | 4           | -             |
| PE                 | Elective                             | 2           | -             |
| ACCT 210           | Accounting Principles or             | -           | 3             |
| or MGT 170         | Introduction to Business             | -           | 3             |
|                    |                                      | <u>15</u>   | <u>17</u>     |

<sup>1</sup> Refer to the section General Education for the Transfer Student.

Physical Education - Exercise Science and Physical Fitness Specialization

Refer to the Undergraduate Catalog for specific requirements.

PHYSICAL THERAPIST ASSISTANT  
School of Technical Careers  
(Associate in Applied Science)

Ted Okita, Program Coordinator  
Telephone -618-453-2361  
Wham Education Bldg., Rm. 141

The Health Careers Council of Illinois reports that the field of physical therapy is one of the five most critical areas in which a manpower shortage exists. There are growing demands for physical therapy services in hospitals, extended care and nursing home facilities, and in private practices. The nation's concern and interest in improving our health care delivery system to the entire population should continue to provide opportunities for skilled workers in this field.

The physical therapist assistant is a skilled technician who works within the physical therapy service, which is under the direction of a physical therapist. The assistant is responsible to and supervised by the physical therapist (PT).

A minimum of 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                      | Physical Agents I (10 weeks)                               | 1.5           | -             |
| PTH 207                      | Massage (6 weeks)  | 1.5           | -             |
| PHSL 208, 209                | Physiology   | -             | 4             |
| PHSL 300                     | Human Anatomy  | -             | 3             |
| PTH 202                      | Physical Rehabilitative Techniques                         | -             | 2             |
| PTH 204                      | Practicum I  | -             | 2             |
|                              |  | 14            | 16            |
| <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,<br>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                      | Physical Agents II   | 3             | -             |
| PTH 214                      | Practicum II   | -             | 3             |
| PE 320                       | Physiological Bases of Human Movement                      | -             | 3             |
| PE 325 or 326                | Training Room Techniques or<br>Emergency Care & Prevention | -             | 2 (3)         |
|                              |  | 16            | 17            |
|                              |  | <u>Summer</u> |               |
| PTH 321a,b                   | Clinical Internship  | 8             |               |
| PTH 322                      | Clinical Seminar   | 2             |               |
|                              |  | 10            |               |

Physical Therapist Assistant As A Major

The student should expect to spend approximately \$125.00 for uniforms and insurance.

Under the supervision of the PT, the student will utilize various physical agents such as heat, cold, light, water, electricity, and sound. The student will also be able to administer massage and therapeutic exercises as well as teach gait and other activities of daily living. The student will assist in more complex procedures such as administering manual muscle tests, electrical tests, and other evaluative examinations. The student also observes, records, and reports to the supervisor conditions, reactions, and responses related to his or her assigned duties. Other duties include general physical therapy record keeping and housekeeping.

This program is fully accredited by the American Physical Therapy Association. Available facilities restrict program enrollment. Interested persons should contact both New Student Admission Services and the Division of Allied Health and Public Service. Special application materials are included in the requirements for admission to the program. All completed application materials to the program for Fall 1988 will be reviewed after January 18, 1988. Enrollment for the Fall 1988 class will be closed as soon as available spaces are filled with qualified candidates. Applications completed after that date will be considered for acceptance as space is available and at the discretion of the admissions committee.

Before graduation, the student will serve an internship of twelve weeks in two separate hospitals located away from the campus.

Representative First Job Titles: Physical Therapist Assistant.

## PHYSICS<sup>1</sup>

College of Education  
(Bachelor of Science)

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

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         | Into to American Government & Politics<br>or U.S. History | 3       | -       |
| GE-C                    | Humanities (select) <sup>2</sup>                          | -       | 3       |
| GE-D 101                | English Composition                                       | 3       | -       |
| GE-E 201                | Healthful Living  | -       | 2       |
| GE-D 117, 118 or<br>119 | Writing (select) <sup>2</sup>                             | -       | 2       |
| CHEM 222a,b             | Intro. to Chemical Principals & Lab                       | 4       | 4       |
| MATH 111                | Pre-Calculus <sup>3</sup>                                 | 5       | -       |
| MATH 150                | Calculus I  | -       | 5       |
|                         |   | 15      | 16      |
| Second Year             |   | Fall    | Spring  |
| GE-A                    | Science (select) <sup>2</sup>                             | 3       | -       |
| GE-B 202                | Introduction to Psychology                                | 3       | -       |
| GE-B                    | Social Science (select) <sup>2</sup>                      | -       | 3       |
| GE-C                    | English, Elective in Humanities (select) <sup>2</sup>     | 3       | -       |
| GE-C                    | Humanities (select) <sup>2</sup>                          | -       | 3       |
| GE-D 153                | Public Speaking   | -       | 3       |
| GE-E                    | P.E. Activity <sup>2</sup>                                | -       | 2       |
| MATH 250                | Calculus II   | 4       | -       |
| PHYS 205a&b,<br>255 a&b | University Physics & Lab <sup>4</sup>                     | 4<br>17 | 4<br>15 |

<sup>1</sup> See also the program (B.S.) under the College of Science.

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

<sup>3</sup> Math 111 substitutes for GE-D Mathematics.

<sup>4</sup> These courses count towards the GE-A science requirement.

<sup>5</sup> These courses are for students with a year or more of high school chemistry. Those with less than a year should take Chem 115 (Introduction to General Chemistry) before Chem 222.

### Physics As A Major

The following specific General Education courses are required for teacher certification (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).

**PHYSICS<sup>1</sup>**  
College of Science  
(Bachelor of Science)

Dr. Subir K. Bose  
Departmental Executive Officer  
Telephone-618-453-2570  
Neckers Building, Room 483A

A major in Physics may be pursued through either the College of Science or the College of Education. The program of study provides for a mastery of the basic principles of classical and quantum physics. It also provides a breadth of coverages in the applications of physical principles to neighboring fields. Because of the central position of physics among the physical sciences, the physics graduate with analytical and instrumental skills can flexibly contribute to the solution of pressing national problems of energy supply, water resources, transportation, environmental healthfulness, security and other vital concerns. A basic knowledge of classical and quantum physics is essential for a successful entry into a very wide variety of interdisciplinary areas of science such as biophysics, geophysics, communications science, space science, environmental science, medical science, and engineering. The program at SIUC, building upon a solid foundation of classical physics, provides a sound introduction to atomic molecular physics.

| <u>First Year</u> |   | <u>Fall</u> | <u>Spring</u> |
|-------------------|---|-------------|---------------|
| GE-B              | Social Studies (select) <sup>2</sup>              | 3           | -             |
| GE-C              | Humanities (select) <sup>2</sup>                  | -           | 3             |
| GE-D 152 or 153   | Interpersonal Communication<br>or Public Speaking | -           | 3             |
| GE-D 101          | English Composition                               | 3           | -             |
| GE-E              | Human Health and Well Being (select) <sup>2</sup> | 1           | 2             |
| FL                | Foreign Language <sup>3,4</sup>                   | 4           | 4             |
| MATH 111          | Pre-calculus <sup>4</sup>                         | 5           | -             |
| *MATH 150         | Calculus I <sup>4</sup>                           | -           | 5             |
|                   |   | <hr/> 16    | <hr/> 17      |

| <u>Second Year</u> |  | <u>Fall</u> | <u>Spring</u> |
|--------------------|--|-------------|---------------|
| BIOL               | Biological Sciences (not GE-A) <sup>3,4</sup>                | 3           | 3             |
| GE-B 211           | Contemporary Economics                                       | 3           | -             |
| GE-C               | Humanities (select) <sup>2</sup>                             | 3           | -             |
| GE-E               | Human Health and Well Being (select) <sup>2</sup>            | -           | 1             |
| *MATH 250          | Calculus II  | 4           | -             |
| *CHEM 222a,b       | Introduction to Chemical Principles and Lab <sup>3,4,5</sup> | 4           | 4             |
| *PHYS 205 a & b    |  |             |               |
| and 255 a & b      | University Physics and Lab <sup>3,4</sup>                    | 4           | 4             |
| *PHYS 301          | Theoretical Methods in Physics                               | -           | 2             |
|                    |  | <hr/> 18    | <hr/> 17      |

\*Required courses for a major in Physics.

<sup>1</sup> See also the program (B.S.) under the College of Education.

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

<sup>3</sup> Approved substitutes for General Education.

<sup>4</sup> Students in the College of Science must take one year of foreign language, one year of math, six semester hours of physical sciences, and six semester hours of biological sciences.

<sup>5</sup> These courses are for students with a year or more of high school chemistry. Those with less than a year should take Chem 115 (Introduction to General Chemistry) before Chem 222.

Physics As A Major

At SIUC a student may elect one of several options to prepare himself or herself as a physicist. Choices exist for both the experimentally and theoretically-oriented student. The physics major may prepare to enter the graduate school or an industrial and/or government laboratory. In addition, there is a degree option for those wishing to teach in the secondary level school system.

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) <sup>1</sup>               | 3           | -             |
| GE-C                      | Humanities (select) <sup>1</sup>                   | -           | 3             |
| GE-D 101                  | English Composition                                | 3           | -             |
| GE-D 118                  | Technical Report Writing                           | -           | 2             |
| FL                        | Foreign Language (select) <sup>2,3</sup>           | 4           | 4             |
| CHEM 222a,b               | Introduction to Chemical Principles <sup>2,3</sup> | 4           | 4             |
| MATH 108,109              | College Algebra and Trigonometry <sup>2,3</sup>    | <u>3</u>    | <u>3</u>      |
|                           |  | 17          | 16            |
| <u>Second Year</u>        |  | <u>Fall</u> | <u>Spring</u> |
| MATH 140, 141<br>or 150   | Calculus   | 4           | -             |
| GE-B                      | Social Science (select) <sup>1</sup>               | 3           | -             |
| GE-C                      | Humanities (select) <sup>1</sup>                   | -           | 3             |
| BIOL 305                  | Genetics <sup>3</sup>                              | -           | 3             |
| PHYS 203a,b<br>and 253a,b | University Physics and Lab <sup>2</sup>            | 4           | 4             |
| CHEM 344                  | Organic Chemistry                                  | 4           | -             |
| CHEM 345                  | Lab Techniques                                     | 2           | -             |
| CHEM 346                  | Organic Chemistry                                  | -           | 2             |
| CHEM 347                  | Lab Techniques                                     | <u>-</u>    | <u>3</u>      |
|                           |  | 17          | 15            |

<sup>1</sup> Refer to section General Education for the Transfer Student.

<sup>2</sup> Approved substitutes for General Education.

<sup>3</sup> Students in the College of Science must take one year of foreign language, one year of math, six semester hours of physical sciences, and six semester hours of biological sciences.

### Third and Fourth Years

During the third year, a student may select from Biology 307, 308, 309. A student fulfills remaining General Education requirements and select physiology courses according to professional interests and remaining departmental requirements. If a student chooses the one-year Organic Chemistry series, Biochemistry (CHEM 450 or 451) is required in the third or fourth year.

If a student chooses Chemistry 380 (one semester Organic Chemistry, one semester Biochemistry), it may be taken in the second or third year.

### 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.

## PLANT AND SOIL SCIENCE

(Business Option)  
School of Agriculture  
(Bachelor of Science)

Dr. Donald Stucky,  
Acting 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 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 <sup>1</sup>                 | -           | 4             |
| BOTANY 200        | General Botany and Lab <sup>1</sup>    | 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 <sup>1</sup> | 3           | -             |
| ACCT 210           | Accounting Principles and Control            | -           | 3             |
| CHEM 140b          | Chemistry                                    | 4           | -             |
| PLSS 220           | General Horticulture                         | 3           | -             |
| PLSS 240           | Soil Science                                 | -           | 4             |
|                    |  | <u>15</u>   | <u>16</u>     |

<sup>1</sup>Substitutes for General Education requirements.

## Third and Fourth Years

The last two years of a student's program concentrate on specific professional objectives. A total of 40 hours in agriculture is required which includes 28 hours in Plant and Soil Science, and six hours from two other departments in the 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, and management 301 or 304, eight 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.

PLANT AND SOIL SCIENCE  
(Environmental Studies Option)  
School of Agriculture  
(Bachelor of Science)

Dr. Donald Stucky,  
Acting Chairperson  
Telephone - 618-453-2496  
Agriculture Building, Room 176

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               | One course from either group:<br>Group 1 GE-B 103, 104, or 105<br>Group 2 GE-B 108 or 102 | 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 <sup>1</sup>   | -           | 4             |
| CHEM 222a&b        | Intro. to Chemical Principles and Lab <sup>1</sup>  | 4           | 4             |
| ABE 204            | Intro. to Agricultural Economics  | -           | 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>     |

<sup>1</sup>Substitutes 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 CE 314-4. In addition, the student may select courses within the University for three hours of outside electives, and nine hours of electives in the 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.

PLANT AND SOIL SCIENCE  
(General Option)  
School of Agriculture  
(Bachelor of Science)

Dr. Donald Stucky,  
Acting 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 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) <sup>2</sup>   | 3           | -             |
| GE-C               | Humanities (select) <sup>2</sup>       | -           | 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 <sup>1</sup>    | -           | 3             |
| BOTANY 200         | General Botany and Lab <sup>1</sup>    | 4           | -             |
| CHEM 140a          | Chemistry <sup>1</sup>                 | -           | 4             |
| PLSS 200           | Principles of Field Crop Production    | -           | 3             |
|                    |  | <u>15</u>   | <u>17</u>     |
| <u>Second Year</u> |  | <u>Fall</u> | <u>Spring</u> |
| GE-A               | Science (select) <sup>2</sup>          | 3           | -             |
| GE-B               | Social Studies (select) <sup>2</sup>   | 3           | -             |
| GE-C               | Humanities (select) <sup>2</sup>       | 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>16</u>   | <u>16</u>     |

<sup>1</sup>Substitutes for General Education requirements.

<sup>2</sup>Consult the section General Education for the Transfer Student.

Third and Fourth Years

The last two years of a student's program concentrate on specific professional objectives. A total of 45 hours in agriculture is required which includes 28 hours in Plant and Soil Science, six hours from two other departments in the 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.

PLANT AND SOIL SCIENCE  
(Landscape Horticulture)  
School of Agriculture  
(Bachelor of Science)

Dr. Donald Stucky,  
Acting Chairperson  
Telephone - 618-453-2496  
Agriculture Building, Room 176

The Department of Plant and Soil Science includes in its program an option in Landscape Horticulture. The program is designed to provide thorough training in both theory and practice to prepare students for interesting careers in landscaping or gardening in parks, playgrounds, residential or industrial areas, road and street parkway improvement and maintenance, and in other public and private work to make the environment more pleasing and useful.

| <u>First Year</u>  |   | <u>Fall</u> | <u>Spring</u> |
|--------------------|---|-------------|---------------|
| GE-B               | Social Sciences (select) <sup>2</sup>             | 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) <sup>2</sup> | 2           | 2             |
| ABE 204            | Agricultural Economics <sup>1</sup>               | -           | 3             |
| BOTANY 200         | General Botany and Lab <sup>1</sup>               | 4           | -             |
| CHEM 140a          | Chemistry <sup>1</sup>                            | -           | 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) <sup>2</sup>             | 3           | -             |
| GE-C               | Humanities (select) <sup>2</sup>                  | 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>     |

<sup>1</sup>Substitutes for General Education requirements.

<sup>2</sup>Refer to the section General Education for the Transfer Student.

Third and Fourth Years

The last two years of a student's program concentrate on specific professional objectives. The student must enroll in the following courses: BIOL 307-3, BOT 320-4, 356-4 or 357-3, PLSS 322-3, PLSS 327-3; 328a, b-2,2; 381-1, 428a, b-33, 432-4 or 434-3, 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. Donald Stucky,  
Acting 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 <sup>1</sup>              | -           | 3             |
| BOTANY 200         | General Botany and Lab <sup>1</sup>              | 4           | -             |
| CHEM 222a&b        | Introduction to Chemical Principles <sup>1</sup> | 4           | 4             |
| MATH 108, 109      | College Algebra and Trigonometry <sup>1</sup>    | 3           | 3             |
| PLSS 200           | Principles of Field Crop Production              | -           | 3             |
|                    |  | <u>16</u>   | <u>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>     |

<sup>1</sup>Substitutes 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 SCIENCE<sup>1</sup>  
(Government)  
College of Education  
(Bachelor of Science)

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

The Department of Political Science offers an undergraduate major in the College of Liberal Arts and the College of Education. The major requires a minimum of thirty-four hours in Political Science courses. A minimum GPA of 2.5 is required. Furthermore, at least three courses must be taken at the 400 level.

| <u>First Year</u>       |   | <u>Fall</u> | <u>Spring</u> |
|-------------------------|---|-------------|---------------|
| GE-A                    | Science (select) <sup>2</sup>                         | 3           | -             |
| GE-B 202                | Introduction to Psychology                            | -           | 3             |
| GE-B 211                | Contemporary Economics <sup>3</sup>                   | -           | 3             |
| GE-B 212                | Intro. to American Government & Politics              | 3           | -             |
| GE-C                    | Humanities (select) <sup>2</sup>                      | 3           | 3             |
| GE-D 101                | English Composition                                   | 3           | -             |
| GE-D 117, 118           |   |             |               |
| or 119                  | Writing (select) <sup>2</sup>                         | -           | 2             |
| GE-E                    | Human Health and Well Being <sup>2</sup>              | 2           | -             |
| GE-D 107                | Intermediate Algebra                                  | -           | 3             |
| Electives               |   | <u>1</u>    | <u>1</u>      |
|                         |   | 15          | 15            |
| <u>Second Year</u>      |   | <u>Fall</u> | <u>Spring</u> |
| GE-A                    | Science (select) <sup>2</sup>                         | 3           | 3             |
| GE-C                    | English Elective in Humanities                        | 3           | -             |
| GE-B 301                | Modern America from 1877 to the Present               | -           | 3             |
| or HIST 300             | Origins of Modern America, 1492-1877                  | -           | 3             |
| GE-B 250                | Intro. Comparative Government & Politics <sup>3</sup> | 3           | -             |
| GE-E 201                | Healthful Living                                      | -           | 2             |
| GE-D 153                | Public Speaking                                       | 3           | -             |
| Elective <sup>2,4</sup> |   | <u>4</u>    | <u>8</u>      |
|                         |   | 16          | 16            |

<sup>1</sup>See also the program under the College of Liberal Arts.

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

<sup>3</sup>Recommended but not required.

<sup>4</sup>Elective hours should be used in the following ways: (1) students may explore areas of interest; (2) in order to select a minor.

Political Science As A Major

The following specific General Education courses are required for teacher certification. (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).

**POLITICAL SCIENCE\***  
College of Liberal Arts  
(Bachelor of Arts)

Dr. John Foster, Chairperson  
Telephone - 618-536-2371  
Faner Building, Room 3081

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 SIUC.

| <u>First Year</u>     |   | <u>Fall</u> | <u>Spring</u> |
|-----------------------|---|-------------|---------------|
| GE-A                  | Science (select) <sup>1</sup>                         | 3           | -             |
| GE-B                  | Social Science (select) <sup>1</sup>                  | 3           | 3             |
| GE-B 212              | Intro. to American Government & Politics <sup>2</sup> | -           | 3             |
| GE-C                  | Humanities (select) <sup>1</sup>                      | 3           | 3             |
| GE-D 101 & 117        |   |             |               |
| or 118 or 119         | English Composition and Writing (select) <sup>1</sup> | 3           | 2             |
| GE-D 107              | Intermediate Algebra                                  | -           | 3             |
| GE-E                  | Human Health and Well Being (select) <sup>1</sup>     | 2           | -             |
|                       |   | <u>14</u>   | <u>14</u>     |
| <u>Second Year</u>    |   | <u>Fall</u> | <u>Spring</u> |
| GE-A                  | Science (select) <sup>1</sup>                         | 3           | 3             |
| FL                    | Foreign Language <sup>3</sup>                         | 4           | 4             |
| GE-D 152 or 153       | Interpersonal Communication or Public Speaking        | 3           | -             |
| GE-E                  | Human Health and Well Being (select) <sup>1</sup>     | -           | 2             |
| MATH or CS            | Math or Computer Science <sup>4</sup>                 | 3           | -             |
| POLS 270              | Intro. to International Relations <sup>5</sup>        | -           | 3             |
| Elective <sup>6</sup> |   | 3           | 3             |
|                       |   | <u>16</u>   | <u>15</u>     |

\*See also the program under the College of Education.

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

<sup>2</sup>Required by the major.

<sup>3</sup>Two semesters (which is generally eight hours) of a foreign language are required for all Liberal Arts students who entered college anywhere Fall 1978 or later. However, four of these hours may be used for GE-C credit.

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

<sup>5</sup>Recommended but not required.

<sup>6</sup>Elective hours should be used to explore areas of interest and to enhance career opportunities; or courses may be selected to satisfy Liberal Arts requirements (refer to College of Liberal Arts section).

Political Science As A Major

The Greek word "idiot" meant one who has no interest in politics and the affairs of state. Hence, the study of political science is one of the oldest and most central of 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 SIUC Department of Political Science offers a full range of courses in the field and has developed significant visibility for its research efforts in recent years.

**Career Opportunities:** 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.

## PRE-DENTISTRY

Pre-Professional  
(Select Academic Unit)

Patricia Sims  
Health Professions Information Office  
Telephone - 618-536-2147  
Neckers A-160

The SIUC pre-dental program meets the general requirements of all United States dental schools. It is designed by the Health Pre-Professional Committee to prepare students for taking the Dental Admission Test not later than spring of the junior year. The Committee and the Health Professions Information Office are available to offer information and guidance to pre-dental students and to assist in the process of application by furnishing a composite evaluation of each applicant to the dental schools to which he or she applies.

| <u>First Year</u>        |   | <u>Fall</u> | <u>Spring</u> |
|--------------------------|---|-------------|---------------|
| 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 <sup>1</sup>   | 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<br>or Public Speaking | 3           | -             |
| CHEM 222a,b <sup>2</sup> | Introduction to Chemical Principles               | 4           | 4             |
| PHYS 203a, b             | College Physics                                   | 3           | 3             |
| PHYS 253a, b             | College Physics Laboratory                        | 1           | 1             |
| ENG 290 <sup>3</sup>     | Intermediate Expository Writing or other          | -           | 3             |
|                          |   | <u>17</u>   | <u>14</u>     |

<sup>1</sup>Community college students may substitute one or two semesters of general biology for zoology if the biology courses are intended for science majors.

<sup>2</sup>Students lacking high school chemistry must begin with Chem 115. Chemistry majors or students hoping to enter dental school with only three years of college should plan to complete inorganic and organic chemistry during their first two years. Generally, there is some advantage to finishing pre-dental chemistry requirements at a four-year college.

<sup>3</sup>Dental 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 SIUC the pre-medical program is guided by the Health Pre-Professional Committee. Through the Health Professions Information Office students are able to find information concerning professional schools and their requirements, curriculum guidance, and assistance with the procedures involved in applying to medical or osteopathic medical schools. The curriculum meets the general requirements of all United States medical schools and is designed to provide students with a strong course background on which to base their medical education.

| <u>First Year</u>        |  | <u>Fall</u> | <u>Spring</u> |
|--------------------------|--|-------------|---------------|
| 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 <sup>1</sup>   | Diversity of Animal Life (Vertebrate)          | -           | 4             |
|                          |  | 15          | 15            |
| <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 | 3           | -             |
| CHEM 222a,b <sup>2</sup> | Introduction to Chemical Principles            | 4           | 4             |
| ENG 290                  | Intermediate Expository Writing                | -           | 3             |
| MATH 150                 | Calculus                                       | -           | 4             |
| Electives <sup>3</sup>   |  | 3           | 5             |
|                          |  | 16          | 16            |

<sup>1</sup>Community college students may substitute a year of general biology if the course is intended for science majors.

<sup>2</sup>Students lacking high school chemistry must take Chem 115 prior to Chem 222. Chemistry majors should begin chemistry in the first year.

<sup>3</sup>Community college students are encouraged to complete foreign language and associate degree requirements before transferring. Taking the additional pre-medical sciences at a four-year college is preferred.

### Third and Fourth Years

Pre-medical students must complete organic chemistry and a year of physics in the third year in order to take the Medical College Admission Test in the spring of that year. Application procedures require a year.

Pre-medical students may choose any major in which to earn the bachelor's degree. Requirements of that degree, of the college in which it is granted, and of the University must be met at the same time that pre-medical requirements are taken. If a science major is chosen, there will be considerable overlapping of requirements. Additional courses recommended for pre-medical preparation include genetics, cellular biology, embryology or developmental biology, comparative anatomy, microbiology, biochemistry, psychobiology, additional mathematics, and social sciences. If the major chosen is in the College of Science, a year of foreign language will be required.

### Medicine As A Career

Medical training will require another four academic years, plus residency. Admission to medical schools is extremely competitive. Students can help themselves by making realistic appraisals of their interests and abilities, by planning ahead to meet all requirements and time schedules, and by keeping themselves informed of admission requirements and procedures. They will receive help through the Health Professions Information Office and the Health Pre-Professional Committee.

Medicine today offers both promise and challenge, whether students are interested in becoming primary physicians, physician specialists or medical scientists. Prevention as well as cure, and the extension of health care to all of society have become important goals in the preparation of physicians.

The flexibility with which the pre-medical students at SIUC may approach their total undergraduate preparation as well as the quality of the pre-medical requirements make it possible for students to achieve an excellent pre-medical preparation.

**PRE-NURSING**  
 Pre-Professional  
 (Pre-Major Advisement)  
 Undergraduate Academic Services

Billie Jacobini  
 Undergraduate Academic Services  
 Telephone - 618-536-5506  
 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 Univeristy at Edwardsville. Students may complete selected General Education and nursing pre-requisites at Carbondale during their first three semesters and apply for admission to the School of Nursing at SIU-Edwardsville for the remainder of the baccalaureate program.

The total program is designed for those who wish to become registered nurses or registered nurses who wish: 1) to strengthen their scientific basis for nursing practice, 2) to broaden and deepen their general educational and cultural background, and 3) to obtain a baccalaureate degree to qualify for further study on the graduate level.

| <u>First Year</u>  |   | <u>Fall</u> | <u>Spring</u> |
|--------------------|---|-------------|---------------|
| 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<br>Public Speaking   | 3           | -             |
| CHEM 140a,b        | Chemistry (inorganic, organic, and<br>biochemistry) | 4           | 4             |
| PHSL 208, 209      | Principles of Physiology & Lab                      | -           | 4             |
|                    |   | 16          | 16            |
| <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             |
|                    |   | 17          | 15            |

As soon as possible after advisement for the Fall Semester, freshman year, the student should see Mrs. Goss, Nursing Advisor, to initiate application to the School of Nursing at SIUE. Deadline date is at least three quarters prior to the quarter the student is applying for. After three semesters at SIU Carbondale, it takes at least eight quarters to complete the baccalaureate nursing program at SIU Edwardsville.

A grade of 'C' or above is required in all nursing courses, all science courses and nursing prerequisites. Students with an overall 2.5 grade point average (4.0 scale) will be considered admissible up to the limit of available space.

Constitution requirement is still required at Edwardsville.

Statistics is now required for SIUE School of Nursing.

Students who take 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.

PRE-OPTOMETRY  
Pre-Professional  
(Select Academic Unit)

Patricia Sims, Advisor  
Health Professions Information Office  
Telephone - 618-536-2147  
Neckers A-160

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> <sup>1</sup> |                                       | <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<br>or 119        | Writing (select)                      | -           | 2             |
| MATH 108, 109                  | College Algebra and Trigonometry      | 3           | 3             |
| ZOOL 220b <sup>2</sup>         | 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 <sup>3</sup>       | 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>  |

<sup>1</sup>See information above concerning course selection.

<sup>2</sup>Community college students may substitute one or two semesters of general biology if it is a course for science majors and if it includes 3-4 hours per week in laboratory.

<sup>3</sup>Chemistry majors or other students hoping to enter optometry school after three years must begin a chemistry sequence in the first year and take organic chemistry in the second in order to take the Optometry College Admissions Test one year prior to optometry school entry. Students with no high school chemistry must begin with CHEM 115.

<sup>4</sup>Any three-hour statistics course taught by business, mathematics, or psychology department is acceptable.

Third and Fourth Years

No degree is given in pre-optometry. Students may choose any major at SIUC. Additional requirements of optometry schools include microbiology, organic chemistry, and additional psychology courses. Students interested in Indiana must have a course in either human or comparative anatomy and a year of college level foreign language or two years of high school foreign language.

Recommended courses include child (or developmental) and other psychology, introductory business, genetics, embryology, and cell biology.

Optometry As A Career

Optometry training requires four years in an accredited professional school. The candidates then take a licensing examination.

Career opportunities exist in individual or group practice, in hospitals or eye clinics, in public health agencies, in industrial health programs, and in consultant services to other professions, such as educators in remedial reading, illuminating engineers, or highway safety planners. It is estimated that 20,000 newly trained optometrists will be needed by 1990.

PRE-PHARMACY  
Pre-Professional  
College of Science

Patricia Sims, Advisor  
Health Professions Information Office  
Telephone - 618-536-2147  
Neckers A-160

Current changes in pharmacy programs make it imperative that pre-pharmacy students have some particular school in mind and are aware of its requirements. The only Illinois program (University of Illinois at Chicago) now is a Doctor of Pharmacy (Pharm. D.) program requiring two years of preparatory courses such as the following:

| <u>First Year</u> |  | <u>Fall</u> | <u>Spring</u> |
|-------------------|--|-------------|---------------|
| GE-A 118          | Introductory Zoology                   | 4           | -             |
| GE-B 108          | 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             |
|                   |  | 14          | 16            |

Students may need to enroll in additional courses during the summer term to avoid overloads during regular semesters. (See "In Addition" below).

| <u>Second Year</u> |   | <u>Fall</u> | <u>Spring</u> |
|--------------------|---|-------------|---------------|
| GE-B 202           | Introduction to Psychology                        | 3           | -             |
| GE-D 152 or 153    | Interpersonal Communication<br>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 SIUC and apply to enter as second or third year students in the five-year program. A pharmacy doctorate is also available.

Applicants for the St. Louis program would add economics or government and botany to the first year courses above and delete physiology. During the second year (if taken at SIUC), 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

SIUC offers courses to meet the requirements of any physical therapy school. The curriculum suggested below includes minimum requirements of three Illinois professional schools so that students may apply to more than one school. Admission is extremely competitive. Applicants should have some knowledge about physical therapy and some experience in patient care. Application must be made nine months to a year in advance of the beginning date at the professional schools.

| <u>First Year</u>       |  | <u>Fall</u> | <u>Spring</u> |
|-------------------------|--|-------------|---------------|
| 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<br>or 119 | Writing (select)   | -           | 2             |
| GE-E                    | Physical Education Activity  | 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-C                    | Humanities (select)  | -           | 3             |
| GE-D 152 or 153         | Interpersonal Communication<br>or Public Speaking                    | -           | 3             |
| GE-E                    | Physical Education Activity  | 2           | -             |
| PHSL 210                | Introductory Human Physiology<br>or other approved Physiology course | -           | 4-5           |
| PHYS 203a,b             | College Physics  | 3           | 3             |
| PHYS 253a,b             | College Physics Laboratory   | 1           | 1             |
| PSYCH 301               | Child Psychology   | 3           | -             |
| PSYCH 305               | Personality Psychology   | 3           | -             |
| PSYCH 431               | Psychopathology  | -           | 3             |
| ZOOL 220b               | Diversity of Animal Life (Vertebrate)                                | 4           | -             |
|                         |  | <u>16</u>   | <u>17-18</u>  |

Also required: current certification in cardiopulmonary resuscitation (CPR) and in first aid.

Recommended electives include Anatomy (PHSL 301), Kinesiology (PE 302 or 303), Psychobiology (PSYC 302), sports or skill oriented physical education courses, additional social science courses. Students may prefer to attend summer or spread pre-physical therapy course work through more than two years.

Third and Fourth Years

Students who complete training at Northwestern University will remain at SIUC 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 SIUC program inasmuch as they will not know whether their applications are successful until late in the year. If admitted, the professional training at Northwestern is completed in fifteen 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 SIUC FOR A BACCALAUREATE DEGREE MUST CONSULT AN ACADEMIC ADVISOR IMMEDIATELY AND PLAN A CURRICULUM LEADING TO A DEGREE IN AN APPROVED PROGRAM. The pre-physical therapy curriculum does not lead to any SIUC degree, nor does it guarantee admission into a professional school.

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<br>or 119 | Writing (select)                     | -           | 2             |
| GE-E                    | Human Health and Well Being (select) | -           | 2             |
| BOT 200 <sup>1</sup>    | 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<br>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           | -             |
|                    |   | <u>17</u>   | <u>16</u>     |

<sup>1</sup>Community college students should substitute general biology if available for zoology and botany listed. Eight hours of biological sciences (with laboratory experience) suitable for science majors is required.

## Third and Fourth Years

Students must complete organic chemistry and biochemistry. In addition to required pre-veterinary courses, there are recommended courses from which the student may choose in accordance with his or her available time. These include Horses, Animal Nutrition, Behavioral Manipulation of Animals, Vertebrate Zoology, Comparative Anatomy, Cell Physiology, Environmental Biology, and Organismic Functional Biology.

No degree is given in pre-veterinary studies. Students should choose an academic major in a science or in animal 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 not likely to be accepted at any but the University of Illinois veterinary programs although a few exceptional students are being accepted out of state. With the diversity of offerings at SIUC, however, the pre-veterinary students have an opportunity to develop related or alternate interests at the same time that they are preparing themselves to apply to the veterinary school.

Professional veterinarians have a wide variety of career choices. They may choose small animal practice, livestock disease prevention and control, meat inspection, control of diseases transmitted from animal to man, supervision of interstate movement of animals, or research in animal disease or in drugs used in animal care.

**PSYCHOLOGY**  
College of Liberal Arts  
(Bachelor of Arts)

Dr. James McHose, Chairperson  
Telephone - 618-536-2301  
Life Science II, Room 281

The psychology major consists of thirteen psychology courses including GE-B 202 for a total of 40 hours. College algebra or finite mathematics is also required. See the Undergraduate Catalog for the specific psychology requirements.

| <u>First Year</u>       |  | <u>Fall</u>    | <u>Spring</u>     |
|-------------------------|--|----------------|-------------------|
| GE-A                    | Science (select) <sup>1</sup>                      | -              | 3                 |
| GE-B                    | Introduction to Psychology                         | 3              | -                 |
| GE-C                    | Humanities (select) <sup>1</sup>                   | -              | 3                 |
| GE-D 101                | English Composition                                | 3              | -                 |
| GE-D 117, 118 or<br>119 | Writing (select) <sup>1</sup>                      | -              | 2                 |
| GE-D 107                | Intermediate Algebra                               | 3              | -                 |
| GE-E                    | Human Health and Well Being (select) <sup>1</sup>  | 2              | 2                 |
| MATH 108, 116<br>or 139 | Finite Mathematics or College Algebra <sup>2</sup> | -              | 3-5               |
| Elective <sup>3</sup>   |  | <u>3</u><br>14 | <u>3</u><br>16-18 |
| <u>Second Year</u>      |  | <u>Fall</u>    | <u>Spring</u>     |
| GE-A                    | Science (select) <sup>1</sup>                      | 3              | -                 |
| GE-C                    | Humanities (select) <sup>1</sup>                   | -              | 3                 |
| GE-B                    | Social Science (select) <sup>1</sup>               | -              | 3                 |
| FL                      | Foreign Language <sup>4</sup>                      | 4              | 4                 |
| GE-D 152 or 153         | Interpersonal Communication<br>or Public Speaking  | 3              | -                 |
| PSYC                    | Psychology Elective                                | 3              | 3                 |
| Elective <sup>3</sup>   |  | <u>-</u><br>13 | <u>3</u><br>16    |

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

<sup>2</sup>Besides being a required course for a major in Psychology, this math course may be used to partially fulfill the Liberal Arts requirement for students beginning college anywhere Fall 1978 or later (see College of Liberal Arts section).

<sup>3</sup>Elective hours should be used to explore areas of interest and to enhance career opportunities; or courses may be selected to satisfy Liberal Arts requirements (see College of Liberal Arts section).

<sup>4</sup>Two semesters (which is generally eight hours) of a foreign language are required for all Liberal Arts students who entered college anywhere Fall 1978 or later. However, four of these hours may be used for GE-C credit.

Psychology As A Major

The major program serves three main classes of students: 1) those who wish an interesting major but who plan no postgraduate academic work, 2) those who plan non-psychology graduate work for which an undergraduate major may be useful (e.g., medical school, social welfare, rehabilitation counseling), and 3) those preparing for graduate work in psychology. As a consequence, the program is aimed at providing broad general education rather than training in specialized psychological skills.

**Representative First Job Titles:** Alcoholism & Drug Addiction Researcher, Child Care Worker, Sales Agent, Senior Citizens Center (Director), Prisoner Classification Interviewer, Probation and Parole Incharge, Rehabilitation and Resettlement Personnel, Claims Authorizer, Drug Abuse Counselor, Mental Health Clinic Technician.

## RADIO-TELEVISION

College of Communications and Fine Arts  
(Bachelor of Arts)

Joe S. Foote, Chairperson  
Telephone 618-536-7555  
Communications Building, 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.

| First Year                 |  | Fall     | Spring   |
|----------------------------|--|----------|----------|
| GE-A 101                   | Conceptual Insights into Modern Communication Systems                          | 3        | -        |
| GE-A                       | Science (select) <sup>1</sup>  | -        | 3        |
| GE-B                       | Social Studies (select) <sup>1</sup>   | 3        | 3        |
| GE-C                       | Humanities (select) <sup>1</sup>   | 3        | 3        |
| *GE-D 101, & 117<br>or 119 | English Composition <sup>2</sup> & Expository or Creative Writing <sup>2</sup> | 3        | 2        |
| GE-D 152 or<br>GE-D 153    | Interpersonal Communication or Public Speaking                                 | -        | 3        |
| GE-E                       | Human Health and Well Being (select) <sup>1</sup>                              | <u>2</u> | <u>1</u> |
|                            |  | 14       | 15       |

| Second Year |   | Fall       | Spring     |
|-------------|---|------------|------------|
| GE-A        | Science (select) <sup>1</sup>   | 3          | -          |
| GE-B        | Social Studies (select) <sup>1</sup>                                  | -          | 3          |
| GE-C        | Humanities (select) <sup>1</sup>                                      | 3          | -          |
| GE-D 107    | Intermediate Algebra  | -          | 3          |
| GE-E        | Human Health and Well Being (select) <sup>1</sup>                     | 1          | -          |
| *R&T 300m   | Intro. to Broadcast Writing, Performance, and Production <sup>3</sup> | 3          | -          |
| *R&T 300p   | History and Foundations of Broadcasting <sup>3</sup>                  | -          | 3          |
| Elective    | Advanced Courses beyond GE level                                      | -          | 3          |
|             | Foreign Language or Computer Science                                  | <u>3-4</u> | <u>3-4</u> |
|             |   | 13-14      | 15-16      |

\*Required courses for a major in Radio-Television.

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

<sup>2</sup>Each student in Radio 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.

<sup>3</sup>Radio-Television 300M and 300P are required of all majors before enrollment in other Radio-Television courses is permitted. Both RT 300M and 300P must be passed with a grade of 'C' or better.

### Transfer of Broadcasting Credits

Transfer students with broadcasting credits in content covered by RT 300M and/or RT 300P may qualify for a Competency Test over that curriculum. If the 300M and/or 300P test is passed, the student need not repeat 300M and/or 300P at SIUC. Other broadcasting credits from two-year institutions may apply toward the major but not as equivalencies to any specific SIUC Radio-Television courses.

A minor of 15 hours is required of all students in Radio-Television. The minor should include courses in a single discipline outside the department and include courses beyond the GE level. Students should consult with their academic advisor for specific recommendations.

The major in Radio-Television consists of 35-38 hours minimum in Radio-TV coursework. Of those, 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.

**Representative First Job Titles:** Producer, Director, Sales Representative, News Writer, Copywriter, News Reporter, Newscaster, Announcer, Program Director, Sales Manager, Researcher, Community Affairs Director, Disc Jockey, Station Manager, Broadcast Engineer, Radio Account Executive, Camera Technician, Scriptwriter, News and Assignment Editor, Continuity Director.

Radiography is an allied health specialty concerned with the production of x-ray films which enable the physician to diagnose disease processes occurring in the human body.

The curriculum is designed to prepare students to become registered radiologic technologists. Completion of the course provides graduates with the educational requirements necessary to take the national certification examination administered by the American Registry of Radiologic Technologists.

To be accepted into the radiologic technology degree program the student must have completed the general education courses designated under "first year" below. The advanced radiologic technology courses combine classroom and clinical education which upon completion allows the graduate to become registry eligible and to receive an associate in applied science degree in radiologic technology.

#### FIRST YEAR - "PRE-REQUISITES"

|             |                                     | <u>Lecture</u> | <u>Lab</u> | <u>Clinic</u> | <u>Credits</u> |
|-------------|-------------------------------------|----------------|------------|---------------|----------------|
| Fall        |                                     |                |            |               |                |
| GE-D 107    | Intermediate Algebra                | 3              | 0          | 0             | 3              |
| 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</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>   |

#### SECOND YEAR - "PROFESSIONAL COURSES"

|          |  | <u>Lecture</u> | <u>Lab</u> | <u>Clinic</u> | <u>Credits</u> |
|----------|--|----------------|------------|---------------|----------------|
| Fall     |  |                |            |               |                |
| 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 (16 weeks)  | 0              | 0          | 36            | 10             |
| AHC 372A | Film Critique I  | 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"

|          |  | <u>Lecture</u> | <u>Lab</u> | <u>Clinic</u> | <u>Credits</u> |
|----------|--|----------------|------------|---------------|----------------|
| Fall     |  |                |            |               |                |
| AHC 332  | Clinic II (16 weeks)                                   | 0              | 0          | 36            | 10             |
| AHC 372B | Film Critique II                                       | 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>       |

Available clinical facilities restrict program enrollment. Eleven area hospitals are used for clinical experiences. Interested persons should contact both New Student Admission Services and the Division of Allied Health and Public Service. Special application materials are included in the requirements for admission to the program.

Selection of the fall class will be completed on a first available, first served basis. Traditionally, the program is filled by April 15. However, applications will be processed and considered after that date as space becomes available.

**RECREATION**  
(Program Services)  
(Therapeutic Recreation)  
College of Education  
(Bachelor of Science)

Dr. John Allen, Chairperson  
Telephone - 618-453-4331  
Faner Hall, Room 4026

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

The Department of Recreation prepares the student for positions in the management of leisure time pursuits.

The curriculum emphasizes the practical as well as the theoretical aspects of recreation by offering practicums, supervised field experiences, and internships in various recreation settings throughout Illinois and the nation.

| <u>First Year</u>        |   | <u>Fall</u> | <u>Spring</u> |
|--------------------------|---|-------------|---------------|
| GE-A                     | Science (select physical) <sup>1,2</sup>          | 3           | 3             |
| GE-B                     | Social Science (select) <sup>1</sup>              | 3           | -             |
| **GE-B 202               | Introduction to Psychology                        | -           | 3             |
| GE-C                     | Humanities (select) <sup>1</sup>                  | 3           | 3             |
| GE-D 101                 | English Composition                               | 3           | -             |
| GE-D 117, 118,<br>or 119 | Writing (select) <sup>1</sup>                     | -           | 2             |
| GE-E                     | Human Health and Well Being (select) <sup>1</sup> | -           | 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                     | Science (select biological)                       | -           | 3             |
| GE-B                     | Social Science (select) <sup>1</sup>              | 3           | -             |
| GE-C                     | Humanities (select) <sup>1</sup>                  | 3           | -             |
| GE-D 107                 | Intermediate Algebra                              | 3           | -             |
| GE-D 152 or<br>153       | Interpersonal Communication or<br>Public Speaking | -           | 3             |
| GE-E                     | P.E. Activity <sup>1</sup>                        | -           | 2             |
| **REC 305                | Recreation Programming and Leadership             | -           | 3             |
| *HED 334                 | Standard First Aid                                | -           | 2             |
| ACCT or<br>PSYCHOLOGY    | Electives   | <u>3</u>    | <u>3</u>      |
|                          |   | <u>15</u>   | <u>16</u>     |

<sup>1</sup> Refer to the section General Education for the Transfer Student. See also the Undergraduate Catalog for specific departmental requirements.

<sup>2</sup> Therapeutic Recreation specialization requires a course in physiology approved by the department.

\*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) <sup>1</sup>                         | 3           | -             |
| GE-B                          | Social Science (select) <sup>1</sup>                  | 3           | 3             |
| FL                            | Foreign Language <sup>2</sup>                         | 4           | 4             |
| GE-D 101 & 117,<br>118 or 119 | English Composition and Writing (select) <sup>1</sup> | 3           | 2             |
| GE-D 107                      | Intermediate Algebra                                  | -           | 3             |
| GE-E                          | Human Health and Well Being (select) <sup>1</sup>     | 2           | 2             |
|                               |   | <u>15</u>   | <u>14</u>     |
| <u>Second Year</u>            |   | <u>Fall</u> | <u>Spring</u> |
| GE-A                          | Science (select) <sup>1</sup>                         | 3           | 3             |
| GE-B                          | Social Science (select) <sup>1</sup>                  | 3           | -             |
| GE-C 215                      | Types of Religion                                     | 3           | -             |
| GE-C                          | Humanities (select) <sup>1</sup>                      | -           | 3             |
| GE-D 152 or 153               | Interpersonal Communication<br>or Public Speaking     | 3           | -             |
| MATH or CS                    | Math or Computer Science <sup>3</sup>                 | -           | 3             |
| RELS 201                      | Issues in Religion                                    | -           | 3             |
| Elective <sup>4</sup>         |   | 4           | 3             |
|                               |   | <u>16</u>   | <u>15</u>     |

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

<sup>2</sup>Two semesters (which is generally eight hours) of a foreign language are required for all Liberal Arts students who entered college anywhere Fall 1978 or later. However, four of these hours may be used for GE-C credit. Greek or Hebrew is recommended.

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

<sup>4</sup>Elective hours should be used to explore areas of interest and to enhance career opportunities; or courses may be selected to satisfy Liberal Arts requirements (see College of Liberal Arts section).

#### Religious Studies As A Major

The primary prerequisite for a major in Religious Studies is not any one course, but rather, an open minded interest in the academic study of religion. To discover whether such interest exists, a student is advised (a) to take 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  
 School of Technical Careers  
 (Associate in Applied Science)

Stanley Pearson  
 Program Coordinator  
 Telephone 618-536-6682  
 STC Building, Room 137

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 off-campus clinical experiences. The clinical experience will be in a variety of locations to provide maximum opportunity for procedures. Upon satisfactory completion of the curriculum, the student is awarded two associate degrees.

It is highly recommended the student complete all pre-requisites before starting the professional sequence. The student should have all program application materials completed in the spring semester for fall entry. Availability of clinical sites and instructors restrict program enrollment.

These professional courses can be completed in 1½ 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 | 64        |
| Respiratory Therapy Advanced Courses (AHC designated)          | 23        |
|  | <u>87</u> |

| First Year                                  | Fall      | Spring    |
|---|-----------|-----------|
| 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                            | 3         | -         |
| GE-D 152 Interpersonal Communication        | -         | 3         |
| AHC 141 Intro to Physiology & Human Anatomy | -         | 4         |
| MICRO 201 Microbiology                      | -         | 4         |
| STC 107A Applied Physics                    | -         | 3         |
| ***AHC Elective                             | 6         | 3         |
|   | <u>18</u> | <u>20</u> |

| Second Year                                  | Fall      | Spring    |
|--|-----------|-----------|
| AHC 203 Principles of Respiratory Therapy    | 5         | -         |
| AHC 213 Respiratory Therapy Exercises        | 1         | -         |
| AHC 223 Patient Care Techniques              | 2         | -         |
| AHC 243 Cardiopulmonary Physiology           | 3         | -         |
| AHC 253 Clinical Practice I                  | 1         | -         |
| AHC 263 Principles of Mechanical Ventilation | -         | 3         |
| AHC 273 Mechanical Ventilation Laboratory    | -         | 1         |
| AHC 283 Survey of Pulmonary Diseases         | 3         | -         |
| AHC 293 Clinical Practice II                 | -         | 2         |
| AHC 323 Respiratory Pathophysiology          | -         | 3         |
| AHC 343 Neonatal/Pediatric Respiratory Care  | -         | 2         |
| AHC 363 Pulmonary Evaluation and Monitoring  | -         | 3         |
| ***AHC Elective                              | 3         | 3         |
|  | <u>18</u> | <u>17</u> |

|  | Summer   |
|--|----------|
| AHC 300 Trends and Issues in Allied Health | 3        |
| AHC 313 Pharmacology                       | 3        |
|  | <u>6</u> |

| Third Year  | Fall      |
|---|-----------|
| 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, Foreign Language and International Trade, French, German, Russian, and Spanish. There is also a special major in East Asian Studies leading to the Bachelor of Arts degree for students who have a professional or occupational interest in Asia. Students 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) <sup>1</sup>                         | -           | 3             |
| GE-B                          | Social Science (select) <sup>1</sup>                  | 3           | 3             |
| GE-C                          | Humanities (select) <sup>1</sup>                      | 3           | -             |
| GE-D 101 & 117,<br>118 or 119 | English Composition and Writing (select) <sup>1</sup> | 3           | 2             |
| RUSS 136a,b                   | Elementary Russian <sup>2</sup>                       | 4           | 4             |
| GE-E                          | Human Health and Well Being (select) <sup>1</sup>     | 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) <sup>1</sup>                         | 3           | 3             |
| GE-B                          | Social Science (select) <sup>1</sup>                  | -           | 3             |
| GE-C                          | Humanities (select) <sup>1</sup>                      | 3           | -             |
| GE-D 152 or 153               | Interpersonal Communication<br>or Public Speaking     | 3           | -             |
| RUSS 201a,b                   | Intermediate Russian <sup>3</sup>                     | 4           | 4             |
| GE-E                          | Human Health and Well Being (select) <sup>2</sup>     | 2           | -             |
| MATH or CS                    | Math or Computer Science <sup>4</sup>                 | -           | 3             |
| Elective                      |   | -           | 3             |
|                               |   | <u>15</u>   | <u>16</u>     |

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

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

<sup>2</sup> Two semesters (generally eight hours) of a foreign language are required for all Liberal Arts students who entered college during Fall 1978 or later. However, four of these hours may be used for GE-C credit. The first year of Russian does not count toward the major.

<sup>3</sup> Required by major. Students with more than one year of high school Russian should take at least one substantial course in the Russian major each semester.

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

#### Russian As A Major

A major in Russian consists of 36 semester hours in courses above the 100 level with a minimum of 12 hours on the 300 level, 12 hours on the 400 level including at least one literature course, and 4 hours of 300 or 400 level Russian electives. FL 436, Methods in Teaching Modern Foreign Languages, is required if the student wishes to be certified to teach. A minor in Russian consists of 18 semester hours in courses above the 100 level.

Transfer students who major in a foreign language must complete a minimum of 12 semester hours in language courses at SIUC.

Representative First Job Titles: Airline Stewardess, Customer Services Personnel, Public Relations Officer, Publications Personnel, Executive Secretary, Interpreter, Continuity Writer, Copywriter, Correspondent, Critical Writer, Editorial Writer, Feature Writer, Program Assistant.

## SECRETARIAL AND OFFICE SPECIALITIES

School of Technical Careers  
(Associate in Applied Science)

Barbara Morgan  
Program Coordinator  
Telephone-618-536-6682  
STC Building, Room 107

Current developments in office systems and related technology are opening up many opportunities for information support personnel with special interests and extensive, specialized skills. Both men and women find rewarding careers in legal, medical, and administrative support, information and word processing systems, and court reporting fields. Students are not forced into a mold. They gain office skills through a core of basic courses, and then draw from a variety of technical and business programs.

### SPECIAL OPTION FOR STUDENTS WITH WORK EXPERIENCE OR ADVANCED SECONDARY TRAINING

Students who have an excellent background in office skills may be eligible for the Program of Advanced Curriculum Entry (PACE). This allows completion of an associate degree in one summer and one year. A two-year degree from a major university for one year of college work is now possible. Most instruction is individualized. A placement/proficiency test is given in the area of typewriting and shorthand. We award college credit for course work you are not required to take.

### Secretarial Skills As A Major

Basic requirements are the same for legal, medical, and administrative secretarial and word processing. These are usually taken the first year:

|                      |   |
|----------------------|---|
| SCR 101 a,b,c,d (10) | Keyboarding   |
| SCR 102 a,b,c,d (10) | Shorthand   |
| SCR 104 (3,5)        | Introduction to Machine Transcription                     |
| SCR 107 (2)          | Filing  |
| SCR 109 (3)          | Calculating Machines                                      |
| SCR 201 (4)          | Co-op Work Experience                                     |
| SCR 208 (3)          | Business Law I  |
| STC 120 (3)          | Fiscal Aspects of Technical Careers<br>(Basic Accounting) |
| GED 118 (2)          | Technical Report Writing (Specialized Section)            |
| STC 101 (3)          | Business Communication                                    |
| GED 101 (3)          | English Composition                                       |

Specialty requirements are usually met during the second year. The specialty requirements for the legal secretarial area are:

|                |   |
|----------------|---|
| SCR 209 (3)    | Applied Law II                          |
| SCR 220 (4)    | Legal Document Production               |
| SCR 222a,b (6) | Legal Terminology/Shorthand             |
| SCR 223 (3)    | Legal Administrative Support Procedures |

Persons completing the legal secretarial program will be eligible to be admitted under the Capstone program into the paralegal program in the SIUC College of Liberal Arts.

Specialty requirements for the medical program are:

|                |   |
|----------------|---|
| SCR 211 (3)    | Health Insurance Processing               |
| SCR 212a,b (6) | Medical Terminology/Transcription         |
| SCR 213 (4)    | Medical Administrative Support Procedures |
| GEB 202 (3)    | Introduction to Psychology                |
| AHC 141 (4)    | Anatomy and Physiology                    |

Specialty requirements for the administrative program are:

|             |                                    |
|-------------|------------------------------------|
| SCR 205 (2) | Office Management and Supervision  |
| SCR 233 (3) | Administrative Document Production |
| SCR 232 (3) | Advanced Shorthand                 |
| SCR 230 (4) | Administrative Support Procedures  |
| GEB 202 (3) | Introduction to Psychology         |
| SCR 140 (3) | Word Processing Concepts           |

Specialty requirements for the word processing area are:

|             |  |
|-------------|--|
| SCR 140 (3) | Word Processing Concepts               |
| SCR 205 (2) | Office Management and Supervision      |
| SCR 233 (3) | Administrative Support Procedures      |
| SCR 240 (3) | Word Processing Applications I         |
| SCR 241 (3) | Word Processing Applications II        |
| SCR 242 (3) | Word Processing Operations and Control |
| EDP 107 (3) | Electronic Data Processing Concepts    |
| GED 202 (3) | Introduction to Psychology             |

Shorthand is not a requirement but a suggested elective for the medical and the word processing curricula.

#### Court Reporting As A Major

Court and conference reporting requires a summer session in addition to the four semesters of the associate degree program. The court and conference reporter specialty includes a minimum of 40 hours of courtroom experience.

Students entering court reporting must be able to type 30 words per minute. Good language skills are recommended.

Students enrolled in court reporting are required to purchase a shorthand machine at the end of their first year. Students rent a machine during the first year in the program.

Requirements for the reporting specialties are:

|                       |  |
|-----------------------|--|
| SCR 101 a,b,c,d (10)  | Keyboarding                                    |
| SCR 183 a,b,c,d (7.5) | Machine Shorthand                              |
| SCR 185 (2.5)         | Introduction to Legal Testimony                |
| SCR 184 (3.5)         | Pre-Transcription Skills for Court Reporters   |
| SCR 180 (1)           | Introduction to Court Reporting                |
| SCR 182 (3)           | Legal Terminology                              |
| GED 101 (3)           | English Composition                            |
| GED 118 (2)           | Technical Report Writing (Specialized Section) |
| STC 101 (3)           | Business Communication                         |
| GEB 212 (3)           | American Government                            |
| SCR 209 (3)           | Applied Law II                                 |
| SCR 212a (3)          | Medical Terminology                            |
| SCR 285 (3)           | Legal Testimony I                              |
| SCR 286 (3)           | Literary Medical I                             |
| SCR 287 (3)           | Legal Testimony II                             |
| SCR 288 (3)           | Literary Medical II                            |
| SCR 385 (3)           | Legal Testimony III                            |
| SCR 386 (3)           | Literary Medical III                           |
| SCR 387 (3)           | Court Practicum                                |
| AHC 141 (4)           | Anatomy and Physiology                         |

The court reporting program includes training in computer-aided transcription which enables a court reporter to have transcripts of materials prepared immediately.

Advisory committees serve the secretarial skills area and the court reporting area.

Graduates of the program are limited only by their own willingness to locate in a specific area.

For more specific information contact:

Barbara Morgan, Coordinator  
Secretarial and Office Specialties



**SOCIAL STUDIES**  
College of Education  
(Bachelor of Science)

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

Dr. Billy Dixon, Chairperson  
Telephone - 618-536-2441  
Wham Building, Room 327

A major in Social Studies may be pursued through the Department of Curriculum, Instruction and Media in the College of Education. Course work includes the areas of history, political science, economics, geography, and anthropology - psychology - sociology. Such a major is designed to prepare individuals for teaching in junior and senior high schools.

| <u>First Year</u>            |   | <u>Fall</u>    | <u>Spring</u>  |
|------------------------------|---|----------------|----------------|
| GE-A                         | Science (select) <sup>1</sup>                                 | 3              | -              |
| *GE-A 330                    | Weather   | -              | 3              |
| *GE-B 104                    | The Human Experience: Anthropology                            | 3              | -              |
| *GE-B 202                    | Introduction to Psychology <sup>2</sup>                       | 3              | -              |
| *GE-B 212                    | Intro. to American Government & Politics <sup>2</sup>         | 3              | -              |
| GE-C                         | Humanities (select) <sup>1</sup>                              | -              | 3              |
| GE-D 101                     | English Composition <sup>2</sup>                              | 3              | -              |
| GE-D 117, 118,<br>or 119     | Writing (select) <sup>1,2</sup>                               | -              | 2              |
| GE-D 153                     | Public Speaking <sup>2</sup>                                  | -              | 3              |
| GE-E 201                     | Healthful Living <sup>2</sup>                                 | -              | 2              |
| *POL SCI 213<br>or HIST 205A | State and Local Government<br>History of Western Civilization | -<br>-         | 3<br>-         |
|                              |   | <u>15</u>      | <u>16</u>      |
| <u>Second Year</u>           |   | <u>Fall</u>    | <u>Spring</u>  |
| GE-A                         | Science (select) <sup>1</sup>                                 | 3              | -              |
| *GE-B 301                    | Modern America from 1877 to Present <sup>2</sup>              | -              | 3              |
| GE-C                         | Humanities (select) <sup>1</sup>                              | 3              | -              |
| GE-C                         | English Humanities Elective (required) <sup>2</sup>           | -              | 3              |
| GE-D 107                     | Intermediate Algebra  | 3              | -              |
| GE-E                         | Human Health and Well Being--activity <sup>2</sup>            | -              | 2              |
| *ECON 214                    | Introduction to Macroeconomics                                | -              | 3              |
| *SOC 301                     | Principles of Sociology                                       | -              | 4              |
| HIST 205B                    | History of Western Civilization                               | 3              | -              |
| *HIST 300                    | Origins of Modern America, 1492 to 1877 <sup>2</sup>          | 3<br><u>15</u> | -<br><u>15</u> |

\*Required courses in Social Studies.

<sup>1</sup> Refer to the section General Education for the Transfer Student.

<sup>2</sup> Required courses for teacher certification include: 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

School of Social Work  
College of Human Resources  
(Bachelor of Science)

Director  
Telephone - 618-453-2243  
Quigley Hall, Room 4

The School of Social Work at SIUC offers a professional accredited curriculum which is designed to meet the educational needs of students with career interests in the human services field. It leads to a Bachelor of Science degree in Social Work. The curriculum provides an interdisciplinary approach to understanding man in contemporary society, basic social problems, and some of the issues associated with the prevention and treatment of these problems. Students are helped to understand the principles and basic skills employed in developing and delivering services to individuals, families, groups, and communities. Students are prepared for direct service practice in both rural and urban settings. Positions in child welfare, gerontology, mental health, health services, women's programs, public and private social service agencies are typically available to graduates.

| <u>First Year</u>  |   | <u>Fall</u> | <u>Spring</u> |
|--------------------|---|-------------|---------------|
| GE-A               | Science (select) <sup>1</sup>                         | 3           | 3             |
| GE-B               | Social Science (select) <sup>1</sup>                  | 3           | -             |
| GE-B 108           | Sociological Perspective <sup>2</sup>                 | -           | 3             |
| GE-C               | Humanities (select) <sup>1</sup>                      | 3           | 3             |
| GE-D 107           | Intermediate Algebra                                  | 3           | -             |
| GE-D 101 & 117,    |   |             |               |
| 118 or 119         | English Composition and Writing (select) <sup>1</sup> | 3           | 2             |
| GE-E               | Human Health and Well Being (select) <sup>1</sup>     | <u>1</u>    | <u>2</u>      |
|                    |   | 15          | 13            |
| <u>Second Year</u> |   | <u>Fall</u> | <u>Spring</u> |
| GE-A 115           | Biology <sup>2</sup>                                  | 3           | -             |
| GE-A/B/C           | (select) <sup>1</sup>                                 | -           | 3             |
| GE-B 202           | Introduction to Psychology <sup>2</sup>               | 3           | -             |
| GE-C               | Humanities (select) <sup>1</sup>                      | 3           | -             |
| GE-D 152           | Interpersonal Communication or Public Speaking        | -           | 3             |
| GE-E               | Human Health and Well Being (select) <sup>1</sup>     | 1           | -             |
| Electives          | or Courses for Minor                                  | <u>5</u>    | <u>9</u>      |
|                    |   | 15          | 15            |

<sup>1</sup>To 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.

<sup>2</sup>Students are required to take these Area A and B courses.

## Third and Fourth Years

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

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) <sup>1</sup>                         | 3           | 3             |
| GE-B                          | Social Science (select) <sup>1</sup>                  | -           | 3             |
| GE-C                          | Humanities (select) <sup>1</sup>                      | -           | 3             |
| GE-D 101 & 117,<br>118 or 119 | English Composition and Writing (select) <sup>1</sup> | 3           | 2             |
| GE-D 107                      | Intermediate Algebra                                  | 3           | -             |
| GE-E                          | Human Health and Well Being (select) <sup>1</sup>     | 2           | 2             |
| MATH or CS                    | Math or Computer Science <sup>2</sup>                 | -           | 3             |
| Elective <sup>3</sup>         |   | 3           | -             |
|                               |   | <u>14</u>   | <u>16</u>     |
| <u>Second Year</u>            |   | <u>Fall</u> | <u>Spring</u> |
| GE-A                          | Science (select) <sup>1</sup>                         | 3           | -             |
| GE-B                          | Social Science (select) <sup>1</sup>                  | 3           | 3             |
| FL                            | Foreign Language <sup>4</sup>                         | 4           | 4             |
| GE-D 152 or 153               | Interpersonal Communication<br>or Public Speaking     | 3           | -             |
| SOC 301                       | Principles of Sociology <sup>5</sup>                  | -           | 4             |
| Elective <sup>3</sup>         |   | 3           | 3             |
|                               |   | <u>16</u>   | <u>14</u>     |

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

<sup>2</sup> One of these courses may be used to partially fulfill the Liberal Arts requirement for students beginning college anywhere Fall 1978 or later.

<sup>3</sup> Elective hours should be used to explore areas of interest and to enhance career opportunities; or courses may be selected to satisfy Liberal Arts requirements (see College of Liberal Arts section).

<sup>4</sup> Two semesters (which is generally eight hours) of a foreign language are required for all Liberal Arts students who entered college anywhere Fall 1978 or later. However, four of these hours may be used for GE-C credit.

<sup>5</sup> Required for the sociology major.

### Sociology As A Major

The Department of Sociology offers two alternative plans of study for completion of its major.

General Sociology is for those seeking a broad academic background in sociology and is usually chosen either by those who want a general liberal arts education in the social sciences or those anticipating graduate study in one of the social sciences. Applied Sociology combines the general program in sociology with individually planned programs built around applied courses and field work experience. This program is designed to give people actual experience in a variety of applied settings and to enhance mastery of specific skills sought by employers. Such employers might include research institutes, women's centers, senior citizen centers and community planning agencies.

Representative First Job Titles: Administrative Aide (Gov't.), Business Management Officer, Child Care Worker, Corrections/Parole Officer, Community Relations Personnel, Gerontologist, Labor Relations Specialist, Public Survey Analyst, Social Analyst, Social Stratification Analyst, Teacher, Urban Planner, Administrative Aide.

Programs of study in foreign languages leading to the Bachelor of Arts degree (with or without teacher certification) are offered in Classics, Foreign Language and International Trade, French, German, Russian, and Spanish. There is also a special major in East Asian Studies leading to the Bachelor of Arts degree for students who have a professional or occupational interest in Asia. Students 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) <sup>1</sup>                         | -           | 3             |
| GE-B                          | Social Science (select) <sup>1</sup>                  | 3           | 3             |
| GE-C                          | Humanities (select) <sup>1</sup>                      | 3           | -             |
| GE-D 101 & 117,<br>118 or 119 | English Composition and Writing (select) <sup>1</sup> | 3           | 2             |
| SPAN 140a,b                   | First-year Spanish <sup>2</sup>                       | 4           | 4             |
| GE-E                          | Human Health and Well Being (select) <sup>1</sup>     | 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) <sup>1</sup>                         | 3           | 3             |
| GE-B                          | Social Science (select) <sup>1</sup>                  | -           | 3             |
| GE-C                          | Humanities (select) <sup>1</sup>                      | 3           | -             |
| GE-D 152 or 153               | Interpersonal Communication<br>or Public Speaking     | 3           | -             |
| SPAN 201a,b                   | Second-year Spanish <sup>3</sup>                      | 3           | 3             |
| SPAN 220a,b                   | Spanish Conversation <sup>4</sup>                     | 2           | 2             |
| MATH or CS                    | Math or Computer Science <sup>5</sup>                 | -           | 3             |
| GE-E                          | Human Health and Well Being (select) <sup>1</sup>     | -           | 2             |
|                               |   | <hr/> 14    | <hr/> 16      |

\*See also the program under the College of Education.

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

<sup>2</sup> Two semesters (generally eight hours) of a foreign language are required for all Liberal Arts students who entered college during Fall 1978 or later. However, four of these hours may be used for GE-C credit. The first year of Spanish does not count towards the major. Spanish 175-5 may substitute for 140 a,b.

<sup>3</sup> Required by the major. Spanish 275-5 may substitute for 201 a,b. Students with more than one year of high school Spanish should take at least one substantial course in the Spanish major each semester.

<sup>4</sup> Only one semester of Intermediate Conversation may count towards the major.

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

**Spanish As A Major:** A major in Spanish consists of 36 semester hours in courses above the 100 level 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.

SPECIAL EDUCATION  
College of Education  
(Bachelor of Science)

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

Dr. Norma Ewing, 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) <sup>1</sup>  | 3           | 3              |
| GE-B               | Social Science (select) <sup>1</sup>                                 | 3           | -              |
| GE-C 101           | Introduction to Art  | -           | 3              |
| GE-D 101           | English Composition <sup>2</sup>                                     | 3           | -              |
| GE-D 117 or 119    | Expository or Creative Writing <sup>2</sup>                          | -           | 2              |
| MATH 114           | Algebraic & Arithmetic Systems                                       | 4           | -              |
| GE-E 201           | Healthful Living <sup>2</sup>  | -           | 2              |
| GE-E               | P.E. Activity <sup>1,2</sup>   | 2           | -              |
| Electives          |  | -           | 3              |
|                    |  | <u>15</u>   | <u>13</u>      |
| <u>Second Year</u> |  | <u>Fall</u> | <u>Spring</u>  |
| GE-A               | Science (select) <sup>1</sup>  | -           | 3              |
| GE-B 202           | Introduction to Psychology <sup>2</sup>                              | 3           | -              |
| GE-B 212 or 301    | Introduction to American Government or<br>U. S. History <sup>2</sup> | -           | 3              |
| GE-C               | Humanities (select) <sup>1</sup>                                     | 3           | -              |
| GE-C               | Literature (select) <sup>1,2</sup>                                   | -           | 3              |
| GE-D 152 or 153    | Public Speaking or<br>Interpersonal Communication <sup>2</sup>       | 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> |

<sup>1</sup> Refer to the section General Education for the Transfer Student.

<sup>2</sup> 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 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).



### SPEECH COMMUNICATION

(Communication Arts and Studies)  
College of Communications and  
Fine Arts  
(Bachelor of Science)

Don Jones, 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.

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) <sup>1</sup>                    | 3           | 3             |
| GE-B               | Social Studies (select) <sup>1</sup>             | 3           | 3             |
| GE-C               | Humanities (select) <sup>1</sup>                 | 3           | -             |
| *GE-C 200          | Oral Interpretation of Literature                | -           | 3             |
| GE-D 101           | English Composition                              | 3           | -             |
| GE-D 117, 118      |  |             |               |
| or 119             | Writing (select) <sup>1</sup>                    | -           | 2             |
| GE-D 152 or 153    | Interpersonal Communication                      | -           | 3             |
|                    | or Public Speaking                               | -           | 2             |
| GE-E               | Human Health and Well Being - Activity           | 3           | -             |
| Electives          |  | 15          | 16            |
| <u>Second Year</u> |  | <u>Fall</u> | <u>Spring</u> |
| GE-A               | Science (select) <sup>1</sup>                    | -           | 3             |
| GE-B               | Social Studies (select) <sup>1</sup>             | 3           | -             |
| GE-C               | Humanities (select) <sup>1</sup>                 | 3           | -             |
| GE-D 107           | Intermediate Algebra                             | -           | 3             |
| GE-E               | Human Health and Well Being(select) <sup>1</sup> | -           | 2             |
| *SPCH 221          | Advanced Public Speaking                         | 3           | -             |
| *SPCH 230          | Introduction to Communication Theory             | 3           | -             |
| *SPCH 262          | Interpersonal Communication II                   | -           | 3             |
| Electives          |  | 3           | 4             |
|                    |  | 15          | 15            |

\*Departmental requirements.

<sup>1</sup> Refer to section General Education for the Transfer Student.

Secondary students and community college students are encouraged to take part in as much speech activity work as possible prior to entering SIUC. Those who are interested in specializing in oral interpretation should also take as many literature courses as possible. Those students interested in other aspects of oral communication should take elective work in high school or at the community college in the social science areas.

### Speech Communication As A Major

No minor required; no foreign language required.

The Speech Communication Department uses direct advisement of all new, transfer, and continuing students.

Graduate degrees (M.A., M.S., and Ph.D.) are available in Speech Communication. Students choose electives to build desired specialization.

Representative First Job Titles: Technical Writer, Visitors' Guide, Communications Specialist, Advertising Agent, Editor, Public Information Officer, Public Relations Officer, Publications Staff, Personnel Interviewer, Publicity Staff, Newspaper Reporter, Radio Announcer, Speech Writer, Manufacturer's Representative, Salesperson, Newscaster, Television Announcer.

**SPEECH COMMUNICATION**  
 (Communication Education)  
 College of Communications and Fine Arts  
 College of Education  
 (Bachelor of Science)

Don Jones, Advisement  
 Telephone - 618-453-2291  
 Communications Building, Room 2002

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

Many careers demand the ability to communicate well. The Department of Speech Communication, with 16 professors, many having national and international scholarly reputations, teaches a wide range of courses in the history, theory and successful use of communication. The Department also sponsors co-curricular activities in debate, forensics, oral interpretation, creative drama and public relations. Students on the debate and forensics teams travel regularly, and are ranked among the best in national competition. The creative drama students bring their talents to schools throughout Southern Illinois.

The Communication Education specialization meets the Illinois requirements for teaching certification in speech at the secondary level. Students have the opportunity to take a minor, thus gaining a second teaching area.

| <u>First Year</u>  |  | <u>Fall</u> | <u>Spring</u> |
|--------------------|--|-------------|---------------|
| GE-A               | Science (select) <sup>1</sup>                                    | 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) <sup>1</sup>                                    | -           | 2             |
| *GE-D 153          | Public Speaking  | -           | 3             |
| GE-E               | Human Health and Well Being--Activity                            | 1           | 2             |
| GE-E 201           | Healthful Living   | 2           | -             |
|                    |  | 15          | 16            |
| <u>Second Year</u> |  | <u>Fall</u> | <u>Spring</u> |
| GE-A               | Science (select) <sup>1</sup>                                    | 3           | -             |
| GE-B               | Social Studies (select) <sup>1</sup>                             | -           | 3             |
| GE-C               | English in Humanities (select) <sup>1</sup>                      | -           | 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           | 3             |
| Electives          |  | 3           | 3             |
|                    |  | 15          | 15            |

\*Departmental requirements.

<sup>1</sup> 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)

Don Jones, 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) <sup>1</sup>                            | 3           | 3             |
| GE-B               | Social Studies (select) <sup>1</sup>                     | -           | 3             |
| *GE-B 202          | Introduction to Psychology                               | 3           | -             |
| GE-C               | Humanities (select) <sup>1</sup>                         | 3           | -             |
| *GE-C 200          | Oral Interpretation of Literature                        | -           | 3             |
| GE-D 101           | English Composition                                      | 3           | -             |
| GE-D 117, 118      |  |             |               |
| or 119             | Writing (select) <sup>1</sup>                            | -           | 2             |
| GE-D 152 or 153    | Interpersonal Communication<br>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) <sup>1</sup>                            | 3           | -             |
| GE-B               | Social Studies (select) <sup>1</sup>                     | 3           | -             |
| GE-C               | Humanities (select) <sup>1</sup>                         | -           | 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<br>Group Communication | 3           | -             |
| *SPCH 262          | Interpersonal Communication II                           | 3           | -             |
| *THEA 213          | Stage Movement   | 2           | -             |
| *THEA 217          | Acting   | -           | 2             |
| *ENG LIT           | Recommended by Department                                | -           | 3             |
| Electives          |  | 3           | 3             |
|                    |  | <u>17</u>   | <u>16</u>     |

\*Departmental requirements.

<sup>1</sup> Refer to section General Education for the Transfer Student.

Secondary students and community college students are encouraged to take part in as much activity work as possible prior to entering SIUC. Those who are interested in specializing in oral interpretation should also take as many literature courses as possible. Those students interested in other aspects of oral communication should take elective work in high school or at the community college in the social science areas.

#### Oral Interpretation (Speech) As A Major

No minor required; no foreign language required. The Speech Communication Department uses direct advisement of all new, transfer, and continuing students.

Graduate degrees 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)

Don Jones, 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 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) <sup>1</sup>                  | 3           | 3             |
| *GE-B 202          | Introduction to Psychology                     | 3           | -             |
| GE-B 212           | Intro. to American Gov't & Politics            | -           | 3             |
| GE-C               | Humanities (select) <sup>1</sup>               | 3           | 3             |
| GE-D 101           | English Composition                            | 3           | -             |
| GE-D 117, 118      |  |             |               |
| or 119             | Writing (select) <sup>1</sup>                  | -           | 2             |
| *GE-D 153 or 152   | Public Speaking or Interpersonal Communication | 3           | -             |
| GE-E               | Human Health and Well Being - Activity         | -           | 2             |
| *SPCH 281          | Introduction to Public Relations               | -           | 3             |
|                    |  | <u>15</u>   | <u>16</u>     |
| <u>Second Year</u> |  | <u>Fall</u> | <u>Spring</u> |
| GE-A               | Science (select) <sup>1</sup>                  | 3           | -             |
| GE-C 200           | Intro to Oral Interpretation (recommended)     | -           | 3             |
| GE-D 107           | Intermediate Algebra                           | 3           | -             |
| GE-E 201           | Human Health and Well Being - Activity         | 2           | -             |
| *ECON 214 or       |  |             |               |
| GE-B 211           | Macroeconomics or Intro to Economics           | -           | 3             |
| *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.

<sup>1</sup> Refer to section General Education for the Transfer Student.

NOTE: Students must demonstrate proficiency in typing at least 30 words per minute.

### Public Relations (Speech Communication) As A Major

The public relations specialization is an interdisciplinary program with a focus on communication studies designed with the assistance of and approved by the Public Relations Society of America. The Speech Communication Department uses direct advisement of all new, transfer, and continuing students.

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, Account Executive, and Legislative Assistant.

Many careers demand the ability to communicate well. The Department of Speech Communication, with 16 professors, many having national and international scholarly reputations, teaches a wide range of courses in the history, theory and successful use of communication. The Department also sponsors co-curricular activities in debate, forensics, oral interpretation, creative drama and public relations. Students on the debate and forensics teams travel regularly, and are ranked among the best in national competition. The creative drama students bring their talents to schools throughout Southern Illinois.

Students who desire a B.A. instead of a B.S. degree take the same speech communication courses as students in the Communication Arts and Studies specialization, as well as the supplemental requirements of the College of Liberal Arts.

| <u>First Year</u>             |   | <u>Fall</u> | <u>Spring</u> |
|-------------------------------|---|-------------|---------------|
| GE-A                          | Science (select) <sup>1</sup>                         | 3           | -             |
| GE-B                          | Social Science (select) <sup>1</sup>                  | 3           | 3             |
| GE-C                          | Humanities (select) <sup>1</sup>                      | -           | 3             |
| GE-D 101 & 117,<br>118 or 119 | English Composition and Writing (select) <sup>1</sup> | 3           | 2             |
| GE-D 152 or 153               | Interpersonal Communication or Public Speaking        | 3           | -             |
| GE-D                          | Math (select) <sup>1</sup>                            | -           | 3-4           |
| GE-E                          | Human Health and Well Being (select) <sup>1</sup>     | 2           | 2             |
| Elective <sup>2</sup>         |   | <u>2</u>    | <u>-</u>      |
|                               |   | 16          | 13-14         |
| <u>Second Year</u>            |   | <u>Fall</u> | <u>Spring</u> |
| GE-A                          | Science (select) <sup>1</sup>                         | 3           | 3             |
| GE-B                          | Social Science (select) <sup>1</sup>                  | -           | 3             |
| GE-C 200                      | Oral Interpretation of Literature                     | 3           | -             |
| FL                            | Foreign Language <sup>4</sup>                         | 4           | 4             |
| SP 221                        | Advanced Public Speaking <sup>3</sup>                 | 3           | -             |
| SP 261                        | Small Group Communication                             | -           | 3             |
| MATH or CS                    | Math or Computer Science <sup>5</sup>                 | 3           | -             |
| Elective <sup>2</sup>         |   | <u>-</u>    | <u>3</u>      |
|                               |   | 16          | 16            |

\*This is not a professional concentration, but a liberal arts concentration. See also the programs under the College of Communications and Fine Arts and the College of Education.

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

<sup>2</sup>Elective hours should be used to explore areas of interest and to enhance career opportunities; or courses may be selected to satisfy Liberal Arts requirements (see College of Liberal Arts section).

<sup>3</sup>Required by the major.

<sup>4</sup>Two semesters (which is generally eight hours) of a foreign language are required for all Liberal Arts students who entered college anywhere Fall 1978 or later. However, four of these hours may be used for GE-C credit.

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

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) <sup>1</sup>  | -           | 3             |
| GE-B Social Studies (select) <sup>1</sup>                                 | 3           | -             |
| GE-C Humanities (select) <sup>1</sup>                                     | -           | 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-D 117, 118 or 119 Expository, Technical or Creative Writing            | -           | 2             |
| GE-E Human Health and Well Being (select) <sup>1</sup>                    | -           | 2             |
| *THEA 217 or 218 Acting <sup>3</sup> or Beginning Stagecraft <sup>4</sup> | 3           | 3             |
|   | 15          | 16            |

| <u>Second Year</u>                             | <u>Fall</u> | <u>Spring</u> |
|--|-------------|---------------|
| GE-A Science (select) <sup>1</sup>             | -           | 3             |
| GE-B Social Studies (select) <sup>1</sup>      | 3           | 3             |
| GE-C Humanities (select)                       | -           | 3             |
| GE-E Human Health and Well Being               | 2           | -             |
| *THEA 218b,c Beginning Stagecraft <sup>4</sup> | 3           | 3             |
| *THEA 203a,b Voice and Diction or              |             |               |
| or 213a,b Stage Movement <sup>3</sup>          | 3           | 3             |
| *THEA 300 Production                           | 1           | 1             |
| Electives <sup>2</sup>                         | 3           | 3             |
|  | 15          | 16            |

\*Theater core requirement.

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

<sup>2</sup>Students should consult with the department regarding the selection of courses to fulfill this requirement.

<sup>3</sup>For students who plan to fulfill the Acting-Directing specialization.

<sup>4</sup>For students who plan to fulfill the Design-Technical specialization.

#### Theater As A Major

No minor is required. The Department of Theater also 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, four productions (two 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 four original plays in the Laboratory Theater.

The heavy production schedule provides many opportunities for practical experience in all aspects of theater.

Scholarships are available.

Representative First Job Titles: Costume Designer, Sound Effect Technician, Theater Drafting Technician, Sales (Corporate), Lighting Effect Technician, Scenery Technician, Costume Technician, Performing Artist, Choreographer (Dance Composer), Makeup Specialist, Actor/Actress, Publicist, Theater Instructor, Travel Coordinator, Scene Designer, Playwright.

TOOL AND MANUFACTURING TECHNOLOGY  
(Machine Tool--Numerical Control)  
School of Technical Careers  
(Associate in Applied Science)

Philip Tregoning  
Program Coordinator  
Telephone - 618-985-4110  
STC Carterville Campus

This specialization offers students extensive experience in a well-equipped machine shop with the training necessary to set up and operate engine lathes, turret lathes, mills, grinders, cut-off saws, and drilling machines. The students will enhance the basic tool room and production skills learned by applying their skills to produce various forms of shop tooling, jigs, fixtures, blanking dies, progressive dies, form dies, compound dies, and produce specialized obsolete parts. Hands-on experience on numerical controlled machines, electrical discharge machines, computer aided mills, and computer aided lathes is a vital part of the training. In addition to machining skills, students learn to read blueprints, select material, layout and plan machining operations, use precision measuring tools, do basic heat treat operations on steel, design and test industrial type of electric, hydraulic, and pneumatic power circuits, and use the machinery handbook. General education courses such as mathematics, physics, speech, and English will also be studied. In this two-year program, a student receives approximately 1250 hours of practice in laboratories equipped with machines used in industry.

| First Year  |   | Fall | Spring |
|-------------|---|------|--------|
| GE-B        | Social Science Elective                                     | -    | 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<br>Abrasive Machining | -    | 3      |
| TT 128      | Hydraulic and Pneumatic Control                             | 2    | -      |
| TT 185, 186 | Technical Drawing I & II                                    | 4    | 4      |
|             |   | 20   | 20     |

| Second Year |   | Fall | Spring |
|-------------|---|------|--------|
| GE-D        | Communication Elective (Technical Writing<br>or Speech)               | -    | 2      |
| STC 107a,b  | Applied Physics   | 4    | -      |
| TT 210      | Numerical Control, Electrical Discharge<br>Machines                   | 7    | -      |
| TT 211      | Advanced Numerical Control, Tool and Die,<br>and Production Machining | -    | 7      |
| TT 220      | Numerical Control, Inspection Practices,<br>and EDM                   | 3    | -      |
| TT 221      | Tool and Die, Production Machining, &<br>Process Planning             | -    | 3      |
| TT 275      | Ferrous Metallurgy  | 2    | -      |
| TT 276      | Tool Steel Metallurgy   | -    | 2      |
| TT 225      | Manufacturing Processes   | -    | 2      |
| EDP 208a    | Computer Assisted NC Programming                                      | 4    | -      |
|             |   | 20   | 16     |

Tool And Manufacturing Technology As A Major

This program offers students the opportunity to develop their technical capabilities on a variety of modern machine tools, computer-aided machines, state of the art welding processes, and testing equipment. The faculty members have broad experience in education and industry. Tool and manufacturing technology majors are offered a choice of three specializations: Machine Tool (Numerical Control), Metal Fabrication and Processes, and Tool Design. The successful graduate of the program may work as a tool and manufacturing technician who functions in the industrial area between the mechanical and manufacturing engineering and the skilled craftsperson. The technician has the technical background required to work with engineers in research, development and testing, plus the skills in metal cutting and fabrication that give him/her the abilities of a tool maker, machinist, welder, or tool designer. The technician may run tests on experimental equipment and material, alter and fabricate pilot models of equipment, build jigs, fixtures, dies or operate and supervise operation of machine tools and fabricating equipment. Students spend about \$100 for tools, instruments and supplies. A student chapter of the Society of Manufacturing Engineers gives its members an early start in the development of their careers. The curriculum is designed to accept both beginning freshmen and transfer students. By proficiency, it is possible to earn credit for previous industrial experience.

Bachelor of Science Degree Options at SIUC

Graduates of the Associate in Applied Science degree program in Tool and Manufacturing Technology have options in bachelor's degree programs that add to the associate degree specialization. These include Advanced Technical Studies in the School of Technical Careers, Industrial Technology, and Vocational Education Studies. Students pursuing these degrees will have an opportunity to add to their associate degree specialization.

Representative First Job Titles: Tool Maker, Laboratory Technician, Mold Maker, Tool Designer, Instrument Maker, Machine Builder, Welder, Die Maker, Inspector, CNC Programmer, NC Programmer, Shop Foreman, Process Planner, Model Maker, Production Supervisor, Testing Technician, Shop Owner, Fabrication Technician, Machinist, Certified Pipe Welder, Tool Technician, and Material Testing Technician.

## TOOL AND MANUFACTURING TECHNOLOGY

(Metal Fabrication and Processes)

School of Technical Careers

(Associate in Applied Science)

Philip Tregoning

Program Coordinator

Telephone 618-985-4110

STC Carterville Campus

This specialization combines machine shop training with training in welding and fabrication. The machine shop classes will equip the student with the skills necessary to set up and operate lathes, shapers, mills, grinders, cutoff saws, and drilling machines. The welding classes will provide adequate laboratory time for the student to develop skills in many industrial welding and cutting processes including oxy acetylene, shielded metal arc, gas metal arc, gas tungsten arc, cored wire, and submerged arc welding; oxy-acetylene cutting, air carbon arc cutting, and plasma arc cutting. In addition to welding and machining skills, students learn to read blueprints, select materials, layout and cost estimating, use precision and nonprecision tools, do basic heat treat operations, and perform destructive and nondestructive weld tests. General education courses such as mathematics, physics, speech, and English will also be studied. In this two-year program, a student receives approximately 1250 hours of practice in laboratories equipped with machine tools, welding equipment and testing equipment used in industry.

### 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 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        | Communication Elective (Technical Writing or Speech) | -         | 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>15</u> |

### Tool And Manufacturing Technology As A Major

This program offers students the opportunity to develop their technical capabilities on a variety of modern machine tools, computer-aided machines, state of the art welding processes, and testing equipment. The faculty members have broad experience in education and industry. Tool and manufacturing technology majors are offered a choice of three specializations: Machine Tool (Numerical Control), Metal Fabrication and Processes, and Tool Design. The successful graduate of the program may work as a tool and manufacturing technician who functions in the industrial area between the mechanical and manufacturing engineering and the skilled craftsperson. The technician has the technical background required to work with engineers in research, development and testing, plus the skills in metal cutting and fabrication that give him/her the abilities of a tool maker, machinist, welder, or tool designer. The technician may run tests on experimental equipment and material, alter and fabricate pilot models of equipment, build jigs, fixtures, dies or operate and supervise operation of machine tools and fabricating equipment. Students spend about \$100 for tools, instruments and supplies. A student chapter of the Society of Manufacturing Engineers gives its members an early start in the development of their careers. The curriculum is designed to accept both beginning freshmen and transfer students. By proficiency, it is possible to earn credit for previous industrial experience.

### Bachelor of Science Degree Options at SIUC

Graduates of the Associate in Applied Science degree program in Tool and Manufacturing Technology have options in bachelor's degree programs that add to the associate degree specialization. These include Advanced Technical Studies in the School of Technical Careers, Industrial Technology, and Vocational Education Studies. Students pursuing these degrees will have an opportunity to add to their associate degree specialization.

**Representative First Job Titles:** Tool Maker, Laboratory Technician, Mold Maker, Tool Designer, Instrument Maker, Machine Builder, Welder, Die Maker, Inspector, CNC Programmer, NC Programmer, Shop Foreman, Process Planner, Model Maker, Production Supervisor, Testing Technician, Shop Owner, Fabrication Technician, Machinist, Certified Pipe Welder, Tool Technician, and Material Testing Technician.

## TOOL AND MANUFACTURING TECHNOLOGY

(Tool Design)  
School of Technical Careers  
(Associate in Applied Science)

Philip Tregoning  
Program Coordinator  
Telephone - 618-985-4110  
STC Carterville Campus

This specialization is unique in that it equips the tool design student with basic machining and welding skills so that he/she is better able to design tools, dies, jigs, and fixtures for industry that incorporate the most practical and economical production processes. The student also studies product drafting, jig and fixture design, and die design. He/she learns to be accurate and detailed in his/her work; to become familiar with and to apply American National Standard Institute standards to drawing and to become competent in detailing in tool, die, and mold design. Students will also receive coursework in computer aided design. General education courses such as mathematics, physics, speech, and English will also be studied. In this two-year program, a student receives approximately 1250 hours of practice in laboratories equipped with machine tools, welding equipment, drafting equipment, and computer aided design equipment.

| <u>First Year</u>  |  | <u>Fall</u> | <u>Spring</u> |
|--------------------|--|-------------|---------------|
| GE-B               | Social Science Elective                                  | -           | 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 180             | Welding I  | -           | 3             |
| TT 185, 186        | Technical Drawing I & II                                 | 4           | 4             |
|                    |  | 20          | 23            |
| <u>Second Year</u> |  | <u>Fall</u> | <u>Spring</u> |
| GE-D               | Communication Elective (Technical Writing or Speech)     | -           | 3             |
| TT 225             | Manufacturing Processes                                  | -           | 2             |
| TT 230             | Tool Design I  | 7           | -             |
| TT 231             | Tool Design II   | -           | 7             |
| TT 240             | Jig, Fixture, Gage Design Theory                         | 3           | -             |
| TT 241             | Die Design Theory  | -           | 3             |
| TT 275             | Ferrous Metallurgy                                       | 2           | -             |
| TT 276             | Tool Steel Metallurgy                                    | -           | 2             |
| STC 107a,b         | Applied Physics  | 4           | -             |
| EDP 208a           | Numerical Control Programming                            | 4           | -             |
|                    |  | 20          | 17            |

### Tool And Manufacturing Technology As A Major

This program offers students the opportunity to develop their technical capabilities on a variety of modern machine tools, computer-aided machines, state of the art welding processes, and testing equipment. The faculty members have broad experience in education and industry. Tool and manufacturing technology majors are offered a choice of three specializations: Machine Tool (Numerical Control), Metal Fabrication and Processes, and Tool Design. The successful graduate of the program may work as a tool and manufacturing technician who functions in the industrial area between the mechanical and manufacturing engineering and the skilled craftsman. The technician has the technical background required to work with engineers in research, development and testing, plus the skills in metal cutting and fabrication that give him/her the abilities of a tool maker, machinist, welder, or tool designer. The technician may run tests on experimental equipment and material, alter and fabricate pilot models of equipment, build jigs, fixtures, dies or operate and supervise operation of machine tools and fabricating equipment. Students spend about \$100 for tools, instruments and supplies. A student chapter of the Society of Manufacturing Engineers gives its members an early start in the development of their careers. The curriculum is designed to accept both beginning freshmen and transfer students. By proficiency, it is possible to earn credit for previous industrial experience.

### Bachelor of Science Degree Options at SIUC

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Representative First Job Titles: Tool Maker, Laboratory Technician, Mold Maker, Tool Designer, Instrument Maker, Machine Builder, Welder, Die Maker, Inspector, CNC Programmer, NC Programmer, Shop Foreman, Process Planner, Model Maker, Production Supervisor, Testing Technician, Shop Owner, Fabrication Technician, Machinist, Certified Pipe Welder, Tool Technician, and Material Testing Technician.



## UNIVERSITY STUDIES

Undergraduate Academic Services  
(Bachelor of Arts)  
(Bachelor of Science)

University Studies  
Baccalaureate Program  
Undergraduate Academic Services  
Telephone 618-453-5506 or 453-4351  
Woody Hall, C-117

The University Studies Baccalaureate Program is a general degree program for students who are interested in designing a multidisciplinary, interdisciplinary, or general program of study.

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 major 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 curriculum prepares him/her for entrance into a graduate library school. Other students may opt to pursue a broad, general education.

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) in all college work taken.

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.

A general model of a curriculum for a degree in University Studies 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 Advisor to determine eligibility. If criteria are met, the student can then be admitted to the program.



VOCATIONAL EDUCATION STUDIES

Business Education Specialization  
(Teacher Certification)  
College of Education  
(Bachelor of Science)

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

Dr. Heidi Perreault  
Coordinator of Program Area  
Telephone - 618-453-3321  
Rehn Hall

Students admitted to the Undergraduate Teacher Education program in Business Education may select one of the following teaching areas: office education, accounting, data processing, general business/consumer education, and marketing. Two supplemental areas are also required.

| <u>First Year</u>  |  | <u>Fall</u> | <u>Spring</u> |
|--------------------|--|-------------|---------------|
| GE-A               | Science (select) <sup>1</sup>                        | -           | 3             |
| GE-B 202           | Introduction to Psychology                           | 3           | -             |
| GE-C               | Humanities (select) <sup>1</sup>                     | 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<br>Public Speaking    | -           | 3             |
| GE-E               | Human Health and Well Being                          | 2           | -             |
| GE                 | Electives  | 2           | 4             |
|                    |  | <u>16</u>   | <u>15</u>     |
| <u>Second Year</u> |  | <u>Fall</u> | <u>Spring</u> |
| GE-A               | Science (select) <sup>1</sup>                        | 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) <sup>1</sup> | 3           | -             |
| GE-E 201           | Healthful Living                                     | 2           | -             |
| SCR 101a           | Keyboarding  | 3           | -             |
| VES 302            | Communication in Business                            | -           | 3             |
| ACT 220            | Accounting I   | 3           | -             |
| VES 306            | Introduction to Data Processing                      | -           | 3             |
| GE                 | Electives  | -           | 4             |
|                    |  | <u>17</u>   | <u>16</u>     |

<sup>1</sup> Refer to the section General Education for the Transfer Student.

Business Education As A Major

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.

# VOCATIONAL EDUCATION STUDIES

Education, Training and Development Specialization  
College of Education  
(Bachelor of Science)

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

Dr. John Washburn, Chairperson  
Vocational Education Education  
Telephone - 618-453-3321  
Wham Building, Room 146

This specialization prepares technically-trained persons for training and development positions in education, business, industry, labor, government and the military.

| <u>First Year</u>       |   | <u>Fall</u> | <u>Spring</u> |
|-------------------------|---|-------------|---------------|
| GE-A                    | Science (select)  | 3           | 3             |
| GE-B 212 or 301         | Introduction to American Government and<br>Politics or U.S. History | 3           | -             |
| GE-B 202                | Introduction to Psychology  | -           | 3             |
| GE-C                    | Humanities (select) <sup>1</sup>                                    | 3           | 3             |
| GE-D 101                | English Composition   | 3           | -             |
| GE-D 117, 118<br>or 119 | Writing (select) <sup>1</sup>                                       | -           | 2             |
| GE-E 201                | Healthful Living  | -           | 2             |
| GE-E                    | Human Health and Well Being - Activity                              | 1           | -             |
| Elective                |   | <u>2</u>    | <u>2</u>      |
|                         |   | 15          | 15            |
| <u>Second Year</u>      |   | <u>Fall</u> | <u>Spring</u> |
| GE-A                    | Science (select) <sup>1</sup>                                       | 3           | -             |
| GE-B                    | Social Science (select) <sup>1</sup>                                | 3           | -             |
| GE-C                    | English in Humanities (select) <sup>1</sup>                         | 3           | -             |
| GE-D 107                | Intermediate Algebra  | -           | 3             |
| GE-D 153                | Public Speaking   | 3           | -             |
| GE-E                    | Human Health and Well Being - Activity                              | -           | 1             |
| VES 306                 | Introduction to Data Processing                                     | 3           | -             |
| VES 363                 | Career Education  | -           | 3             |
| Elective                |   | <u>-</u>    | <u>9</u>      |
|                         |   | 15          | 16            |

<sup>1</sup> Refer to the section General Education for the Transfer Student.

Refer to the Undergraduate Catalog for specific major requirements.

Special Note to Community College Personnel: The programs in education, training, and development and secondary school industrial education teaching and health occupations teaching require the equivalent of an associate degree in a technical specialty for admission.

# VOCATIONAL EDUCATION STUDIES

Health Occupations Education Specialization  
(Teacher Certification)  
College of Education  
(Bachelor of Science)

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

Dr. Heidi Perreault  
Coordinator of Program Area  
Telephone - 618-453-3321  
Rehn Hall

This specialization prepares persons with allied health and nursing specialty backgrounds for teaching health occupations in secondary schools.

| <u>First Year</u>  |  | <u>Fall</u> | <u>Spring</u> |
|--------------------|--|-------------|---------------|
| GE-A               | Science (select) <sup>1</sup>                        | -           | 3             |
| GE-B 202           | Introduction to Psychology                           | 3           | -             |
| GE-C               | Humanities (select) <sup>1</sup>                     | 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<br>Public Speaking    | -           | 3             |
| GE-E               | Human Health and Well Being                          | 2           | -             |
| GE                 | Electives  | 2           | 4             |
|                    |  | <u>16</u>   | <u>15</u>     |
| <u>Second Year</u> |  | <u>Fall</u> | <u>Spring</u> |
| GE-A               | Science (select) <sup>1</sup>                        | 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) <sup>1</sup> | 3           | -             |
| GE-E 201           | Healthful Living                                     | 2           | -             |
| SCR 101a           | Keyboarding  | 3           | -             |
| VES 302            | Communication in Business                            | -           | 3             |
| ACT 220            | Accounting I   | 3           | -             |
| VES 306            | Introduction to Data Processing                      | -           | 3             |
| GE                 | Electives  | -           | 4             |
|                    |  | <u>17</u>   | <u>16</u>     |

<sup>1</sup> Refer to the section General Education for the Transfer Student.

## Health Occupations 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.

**VOCATIONAL EDUCATION STUDIES**  
 Home Economics Education Specialization  
 (Educational Services)  
 College of Education  
 (Bachelor of Science)

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

Phyllis Bubnas, Coordinator  
 Telephone - 618-453-3321  
 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) <sup>1</sup>   | 3           | 3             |
| GE-B 211 or 212      | Contemporary Economics <sup>2</sup> or Intro. to American Government and Politics | 3           | -             |
| GE-C                 | Humanities (select) <sup>1</sup>  | 3           | 3             |
| GE-C 101             | Introduction to Art <sup>2</sup>  | -           | 3             |
| GE-D 101             | English Composition   | 3           | -             |
| GE-D 117, 118 or 119 | Writing (select) <sup>1</sup>   | -           | 2             |
| GE-E                 | Human Health and Well Being (select) <sup>1</sup>                                 | 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) <sup>1</sup>   | 3           | -             |
| GE-B 108             | The Sociological Perspective <sup>2</sup>   | -           | 3             |
| GE-B 202             | Introduction to Psychology <sup>2</sup>   | 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            |   | <u>6</u>    | <u>6</u>      |
|                      |   | 14 (15)     | 15            |

<sup>1</sup>Refer to the section General Education for the Transfer Student.

<sup>2</sup>Required by the major.

Home Economics Education As A Major

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

Graduate degrees available.

VOCATIONAL EDUCATION STUDIES  
Home Economics Education Specialization  
(Home Economics Extension)  
College of Education  
(Bachelor of Science)

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

Phyllis Bubnas, Coordinator  
Telephone - 618-453-3321  
Pulliam Hall, Room 210

This program is designed to prepare persons 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) <sup>1</sup>                                     | -           | 3             |
| GE-B 108           | The Sociological Perspective                                      | 3           | -             |
| GE-B 212 or 301    | Introduction to American Government<br>& 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 118           | Technical Report Writing  | -           | 2             |
| GE-E               | Human Health and Well Being                                       | -           | 2             |
| F&N 100            | Fundamentals of Nutrition   | 3           | -             |
| CHEM 140a          | Chemistry <sup>2</sup>  | -           | 4             |
| VES 320            | Home Economics As A Profession                                    | 1           | -             |
| VES 338a           | Clothing Construction   | -           | 2             |
|                    |   | <u>16</u>   | <u>16</u>     |
| <u>Second Year</u> |   | <u>Fall</u> | <u>Spring</u> |
| GE-A               | Science (select) <sup>1</sup>                                     | -           | 3             |
| GE-B 202           | Introduction to Psychology  | 3           | -             |
| GE-E 201           | Healthful Living  | -           | 2             |
| GE-C               | Humanities (select) <sup>1</sup>                                  | 3           | 3             |
| CIM 227            | Marriage and Family Living  | 3           | -             |
| CIM 237            | Child Development   | -           | 3             |
| VES 336            | Survey of Clothing  | -           | 3             |
| F&N 156 or 256     | Fundamentals of Foods   | 3           | -             |
| CE FM 331          | Human Environment and Living Space                                | 3           | 3             |
| GE-D 153           | Public Speaking   | -           | -             |
|                    |   | <u>15</u>   | <u>17</u>     |

<sup>1</sup> Refer to section General Education for the Transfer Student.

<sup>2</sup> Approved 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; Field experiences with a Home Economics Extension advisor are available.

Graduate degrees available.



**VOCATIONAL EDUCATION STUDIES**  
Home Economics Education Specialization  
(Teacher Certification)  
College of Education  
(Bachelor of Science)

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

Phyllis Bubnas, Coordinator  
Telephone - 618-453-3321  
Pulliam Hall, Room 210

This program is designed to meet the needs of students desiring to teach home economics in school departments maintained according to the provisions of the federal vocational acts. A vocational home economics certificate requires a bachelor's degree in home economics from an institution and in a course of study approved for teacher training by the Vocational Division of the United States Office of Education and by the State Board for Vocational Education and Rehabilitation. SIUC is so approved for training home economics teachers.

| <u>First Year</u>  |   | <u>Fall</u> | <u>Spring</u> |
|--------------------|---|-------------|---------------|
| GE-A               | Science (select)  | -           | 3             |
| GE-B 108           | The Sociological Perspective  | 3           | -             |
| GE-C 101           | Introduction to Art   | 3           | -             |
| GE-C               | Humanities (select) <sup>3</sup>  | -           | 3             |
| GE-D 107           | Intermediate Algebra  | 3           | -             |
| GE-D 101           | English Composition <sup>1</sup>  | 3           | -             |
| GE-D 117 or 118    | Technical Report or Expository Writing <sup>1</sup>                         | -           | 2             |
| GE-D 153           | Public Speaking <sup>1</sup>  | -           | 3             |
| GE-E 201           | Healthful Living <sup>1</sup>   | -           | 2             |
| F&N 100            | Fundamentals of Nutrition   | 3           | -             |
| VES 338            | Clothing Construction   | -           | 3             |
|                    |   | <u>15</u>   | <u>16</u>     |
| <u>Second Year</u> |   | <u>Fall</u> | <u>Spring</u> |
| GE-A               | Science (select) <sup>3</sup>   | 3           | 3             |
| GE-B 202           | Introduction to Psychology <sup>1</sup>                                     | 3           | -             |
| GE-B 212 or 301    | Introduction to American Government & Politics or U.S. History <sup>1</sup> | -           | 3             |
| GE-C               | English Elective in Humanities (select) <sup>1</sup>                        | -           | 3             |
| GE-E               | Human Health and Well Being (select) <sup>1</sup>                           | -           | 2             |
| CIM 237            | Early Child Development I   | -           | 3             |
| CIM 227            | Marriage and Family Living  | 3           | -             |
| CEFM 340           | Consumer Problems   | 3           | -             |
| F&N 156 or 256     | Fundamentals of Foods   | 3           | -             |
| VES 320            | Home Economics as a Profession  | -           | 1             |
|                    |   | <u>15</u>   | <u>15</u>     |

<sup>1</sup>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, 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).

<sup>2</sup>Substitutes for GE-A 106 Chemistry for Non-Science Majors.

<sup>3</sup>Refer to section General Education for the Transfer Student.

Home Economics Education As A Major

No minor required. No foreign language required.

Child Development practicum in nursery school; home management practicum; supervised student teaching in an area high school; field experience with a home economics extension advisor are available.

Graduate degrees available.

## VOCATIONAL EDUCATION STUDIES

Industrial Education Specialization  
(Teacher Certification)  
College of Education  
(Bachelor of Science)

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

Dr. Heidi Perreault  
Coordinator of Program Area  
Telephone - 618-453-3321  
Rehn Hall

Industrial Education Teaching concerns specialized instruction in a wide variety of vocational-technical occupations including industrial oriented, and other occupations.

| <u>First Year</u>  |  | <u>Fall</u> | <u>Spring</u> |
|--------------------|--|-------------|---------------|
| GE-A               | Science (select) <sup>1</sup>                        | -           | 3             |
| GE-B 202           | Introduction to Psychology                           | 3           | -             |
| GE-C               | Humanities (select) <sup>1</sup>                     | 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<br>Public Speaking    | -           | 3             |
| GE-E               | Human Health and Well Being                          | 2           | -             |
| GE                 | Electives  | 2           | 4             |
|                    |  | <u>16</u>   | <u>15</u>     |
| <u>Second Year</u> |  | <u>Fall</u> | <u>Spring</u> |
| GE-A               | Science (select) <sup>1</sup>                        | 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) <sup>1</sup> | 3           | -             |
| GE-E 201           | Healthful Living                                     | 2           | -             |
| SCR 101a           | Keyboarding  | 3           | -             |
| VES 302            | Communication in Business                            | -           | 3             |
| ACT 220            | Accounting I   | 3           | -             |
| VES 306            | Introduction to Data Processing                      | -           | 3             |
| GE                 | Electives  | -           | 4             |
|                    |  | <u>17</u>   | <u>16</u>     |

<sup>1</sup> Refer to the section General Education for the Transfer Student.

### Industrial Education Teaching 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.

**ZOOLOGY<sup>1</sup>**  
 College of Education  
 (Bachelor of Science)

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

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<br>or U.S. History <sup>3</sup> | -           | 3             |
| GE-D 101 English Composition <sup>3</sup>   | 3           | -             |
| GE-D 117, 118, or<br>119 Writing <sup>3</sup>                                       | -           | 2             |
| GE-E 201 Healthful Living <sup>3</sup>  | -           | 2             |
| GE-E P.E. Activity <sup>2,3</sup>   | 1           | -             |
| **CHEM 222a,b Introduction to Chemical Principles & Lab                             | 4           | 4             |
| *MATH 111 Pre-Calculus  | 5           | -             |
| ZOOL 220a,b Diversity of Animal Life  | 4           | 4             |
|   | <u>17</u>   | <u>15</u>     |

| <u>Second Year</u>  | <u>Fall</u> | <u>Spring</u> |
|---|-------------|---------------|
| GE-B 202 Introduction to Psychology <sup>3</sup>            | 3           | -             |
| GE-B Social Studies (select) <sup>2</sup>                   | -           | 3             |
| GE-C English Elective in Humanities (select) <sup>2,3</sup> | 3           | -             |
| GE-C Humanities (select) <sup>2</sup>                       | 3           | 3             |
| GE-D 153 Public Speaking <sup>3</sup>                       | -           | 3             |
| GE-E P.E. Activity <sup>3</sup>                             | 1           | -             |
| BOT 200 General Botany                                      | -           | 4             |
| **BIOL 307 Environmental Biology                            | 3           | -             |
| ZOOL 300 Vertebrate Embryology                              | 4           | -             |
| ZOOL or Botany Electives                                    | -           | 4             |
|   | <u>17</u>   | <u>17</u>     |

\*Approved substitute for GE-D Math.

\*\*Approved substitutes for GE-A.

<sup>1</sup>Should also have a minor in Botany. See also the program under the College of Science.

<sup>2</sup>Refer to the section General Education for the Transfer Student.

<sup>3</sup>The following are required courses for certification: 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 II, 351 or 355F

The zoology curriculum provides the student with a knowledge of animals, their biology and their conservation. The 25 faculty members of the Department of Zoology represent a wide range of professional zoological disciplines. A wide variety of courses is offered in the biologically rich and diverse environment of Southern Illinois. Our excellent study facilities in Life Science II are equipped with specialized laboratories, computer facilities, research museum, and animal quarters. Associated with the department are the Cooperative Fisheries and Wildlife Research Laboratories which make important contributions to the education of many undergraduates.

The department's faculty and graduate students provide personal opportunities for student introduction to interesting specialties. This is augmented by the unique INDIVIDUALIZED CURRICULUM prepared for each student majoring in zoology. Arrangements are made through the Director of Undergraduate Studies for each student to select a faculty advisor to plan with him or her the specific program of courses in zoology and supporting areas (usually other biological sciences, math and chemistry).

| <u>First Year</u>       |  | <u>Fall</u> | <u>Spring</u> |
|-------------------------|--|-------------|---------------|
| GE-A 118                | Introductory Zoology <sup>2</sup>                    | 4           | -             |
| GE-B                    | Social Studies (select)                              | 3           | -             |
| GE-C                    | Humanities (select)                                  | -           | 3             |
| GE-D 101                | English Composition                                  | 3           | -             |
| GE-D 117, 118<br>or 119 | Writing (select)                                     | -           | 2             |
| Elective or             |  |             |               |
| CHEM 115                | Introductory General Chemistry <sup>1,2,4</sup>      | 3           | -             |
| CHEM 222a               | Introduction to Chemical Principles <sup>1,2,4</sup> | -           | 4             |
| MATH 108, 109           | College Algebra and Trigonometry <sup>1,2,3</sup>    | 3           | 3             |
| ZOOL 220a               | Diversity of Animal Life (invertebrate) <sup>2</sup> | -           | 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<br>or Public Speaking    | 3           | -             |
| GE-E                    | Human Health and Well Being (select)                 | -           | 1             |
| BIOL 307                | Environmental Biology <sup>1,2</sup>                 | -           | 3             |
| CHEM 222b               | Introduction to Chemical Principles <sup>2,4</sup>   | 4           | -             |
| FL                      | Foreign Language <sup>1,2</sup>                      | 4           | 4             |
| MATH 140 or 150         | Calculus <sup>5</sup>                                | -           | 4             |
| ZOOL 220b               | Diversity of Animal Life (vertebrate)                | 4           | -             |
|                         |  | <u>17</u>   | <u>15</u>     |

<sup>1</sup> Approved substitutes for General Education.

<sup>2</sup> The College of Science requires one year of any foreign language, one year of math, 6 semester hours of physical sciences, and 6 semester hours of biological sciences.

<sup>3</sup> GE-D 107 or 1½ years of high school algebra is a prerequisite to Math 108 and 111.

<sup>4</sup> CHEM 115 is for students who have less than one year of high school chemistry. CHEM 222a,b will satisfy Zoology Department requirements for inorganic chemistry. For some students, CHEM 140a,b will be adequate.

<sup>5</sup> Computer 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.

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## VISITS TO CAMPUS

We welcome prospective students, their families, friends, and counselors to learn more about SIUC through various on-campus and off-campus events. Activities on campus include Campus Visits, Group Visit Days, and Open Houses. SIUC Previews are held in several off-campus locations around Illinois each year.

Campus Visits are available by appointment Monday through Friday, 8:00 a.m. to 4:30 p.m.; to make best use of the visit, please plan to arrive by 2:00 p.m. Please make reservations approximately seven days in advance. Admissions Counselors are available to advise you about academic programs, student services, admission policies and procedures, housing options, financial aid and general information about the University and community. Guided tours of the campus are available. Appointments with departmental representatives can be arranged with advance notice.

Group Visit Days are, quite simply, Campus Visits by groups of people. The same arrangements are available, but an advance reservation is a must.

Open Houses are held on campus 4-5 times per year. Activities include admissions counseling, departmental exhibits, displays by student organizations, presentations on financial aid and other student services, campus and departmental tours, and opportunities to enjoy other events or activities.

SIUC Previews are events held in locations from October through May to bring SIUC within easy traveling distance of nearly every Illinois community. Activities include admissions counseling, small group and individual sessions on financial aid, a dynamic audio-visual presentation entitled "SIUC Today," consultation about University housing, and information displays on many other programs and services.

For reservations for Campus Visits and Group Visit Days or for information about any of these events, please write New Student Admission Services, Southern Illinois University at Carbondale, Carbondale, Illinois, 62901 or call 800-642-3531 (toll free in Illinois) or 618-536-4405 (direct).

## PUBLICATIONS

### PUBLICATIONS FOR COUNSELORS

#### Counselor's Advisement Catalog

Every counselor and academic advisor should have a personal copy. Write New Student Admission Services.

#### 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.

#### Counselor's Newsletter

Published as needed to immediately inform 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 applications for admission and housing. It is distributed at college days, night programs, and in correspondence. Quantities will be sent on request. Write New Student Admission Services.

#### New Student Newsletter

Published as needed to inform students and their families about items of interest, status of programs, changes in procedures, etc.

### PUBLICATIONS FOR PARENTS

#### Parents Newsletter

Published as needed to inform parents of prospective students about items of special interest, financial aid, student services, payment schedules, etc.

### OTHER MATERIALS AND OFFICES

Admission Applications--New Student Admission Services

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







