1996

1996-1997 Southern Illinois University Bulletin Carbondale Campus (Counselor's Advisement Catalog)

Southern Illinois University Carbondale

SOUTHERN ILLINOIS UNIVERSITY AT CARBONDALE

BULLETIN

Counselor's Advisement Catalog

SIU

96
97

Refer to the Southern Illinois University at Carbondale Bulletin 1996–97 *Undergraduate Catalog* for official policies, procedures, and curricula for fulfilling SIUC degree requirements.

Southern Illinois University at Carbondale is an Equal Opportunity/Affirmative Action institution in accordance with Civil Rights legislation and does not discriminate on the basis of race, color, religion, national origin, sex, age, disability, sexual orientation, marital status, or other factors prohibited by law in any of its educational programs, activities, admissions or employment practices. Concerns regarding this policy should be referred to the Affirmative Action Office, Southern Illinois University at Carbondale, 155 Davies Gymnasium, telephone 618 536-6618.

Southern Illinois University at Carbondale Bulletin

1996–97 Counselor's Advisement Catalog

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

Volume 37, Number 2, September 1995

Second-Class postage paid at Carbondale, Illinois 62901. Published by Southern Illinois University at Carbondale, Carbondale, Illinois 62901, four times per year, in August, September, October, and November. Subscription price $4 per issue. POSTMASTER: Send address changes to Southern Illinois University at Carbondale Bulletin, University Electronic Communications, Mail Code 6513, Southern Illinois University at Carbondale, Carbondale, IL 62901-6513.

Table of Contents

Academic Regulations and Procedures

Instructional Units

Curriculum Guides

University Calendar

Fall Semester 1995

Semester classes begin	Monday, August 21
Labor Day holiday	Monday, September 4
Saluki Family Weekend	Saturday, October 7
Homecoming	Saturday, October 14
Fall recess	Saturday–Wednesday, October 28–November 1
Thanksgiving vacation	Saturday, NOON–Sunday, November 18–26
Final examinations	Monday–Friday, December 11–15

Spring Semester 1996

Martin Luther King, Jr.'s Birthday holiday	Monday, January 15
Semester classes begin	Tuesday, January 16
Spring vacation	Saturday, NOON–Sunday, March 9–17
Honors Day	Sunday, April 14
Final examinations	Monday–Friday, May 6–10
Commencement	Friday–Sunday, May 10–May 12

Summer Session 1996

Eight week session begins	Monday, June 10
Independence Day holiday	Thursday, July 4
Final examinations	Thursday –Friday, August 1–2
Commencement	Saturday, August 3

Fall Semester 1996

Semester classes begin	Monday, August 19
Labor Day holiday	Monday, September 2
Saluki Family Weekend	Saturday, October 12
Homecoming	Saturday, October 19
Fall recess	Thursday–Sunday, October 31–November 3
Thanksgiving vacation	Saturday, NOON–Sunday, November 23–December 1
Final examinations	Monday–Friday, December 9–13

Spring Semester 1997

Semester classes begin	Tuesday, January 13
Martin Luther King, Jr.'s Birthday holiday	Monday, January 20
Spring vacation	Saturday, NOON–Sunday, March 8–16
Honors Day	Sunday, April 6
Final examinations	Monday–Friday, May 5–9
Commencement	Friday–Sunday, May 9–11

All breaks begin officially at 10:00 P.M. the night before and end at 7:30 A.M. the morning after the beginning and ending dates listed, unless otherwise designated.

General Information

SIUC Profile

Name:	Southern Illinois University at Carbondale
Founded:	1869
President:	John C. Guyon
Location:	Southwest corner of Carbondale
Telephone:	618 453-2121
Type:	Public state university of the Southern Illinois University system
Student body:	Co-ed
Calendar:	Early semester (fall and spring), summer session
Campuses:	Carbondale; College of Technical Careers' Carterville Campus; Southern Illinois Airport; outdoor laboratories; University Farms
Acreage:	1128-acre main campus, 7253 total acres
Buildings:	256
Colors:	Maroon and white
Mascot:	Saluki (Egyptian hunting dog)
Degrees offered:	Associate: A.A.S.; Bachelor's: B.A., B.S., B.Mus., B.F.A.; Master's: M.Acc., M.S., M.B.A., M.F.A., M.M., M.P.A., M.S., M.S.Ed.; Specialist (6 yr.); Doctor's: Ph.D., Rh.D., D.B.A., M.D., J.D.

Student Profile

Fall 1994 Enrollment:

18,712 undergraduate
3,761 graduate
689 law and medicine
23,162 total

Residency:

81% from Illinois
10% from other states
9% from 118 other countries

Undergraduate Student-to-Faculty Ratio:

16:1

The Campus Environment

Community:	Carbondale, Illinois (pop. 27,000)
Location:	Jackson County in Southern Illinois
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

Campus Visit Opportunities

We welcome prospective students, their families, friends, and counselors, to learn more about SIUC through various on-campus events. Activities on campus include campus visits, group visit days, and Open Houses. SIUC Previews are held in several off-campus locations in Illinois each year.

Campus Visits are available by appointment Monday through Friday, 8 A.M. to 4:30 P.M. To make best use of your visit, plan to arrive by 2 P.M. Make reservations approximately seven days in advance. Admission counselors are available to advise you about academic programs, student services, admission policies and procedures, housing options, financial aid, and general information about the University and community. Guided tours of the campus are also available. With advance notice, appointments with representatives of academic programs can be arranged.

Group Visit Days are campus visits by groups of people. A reservation is required.

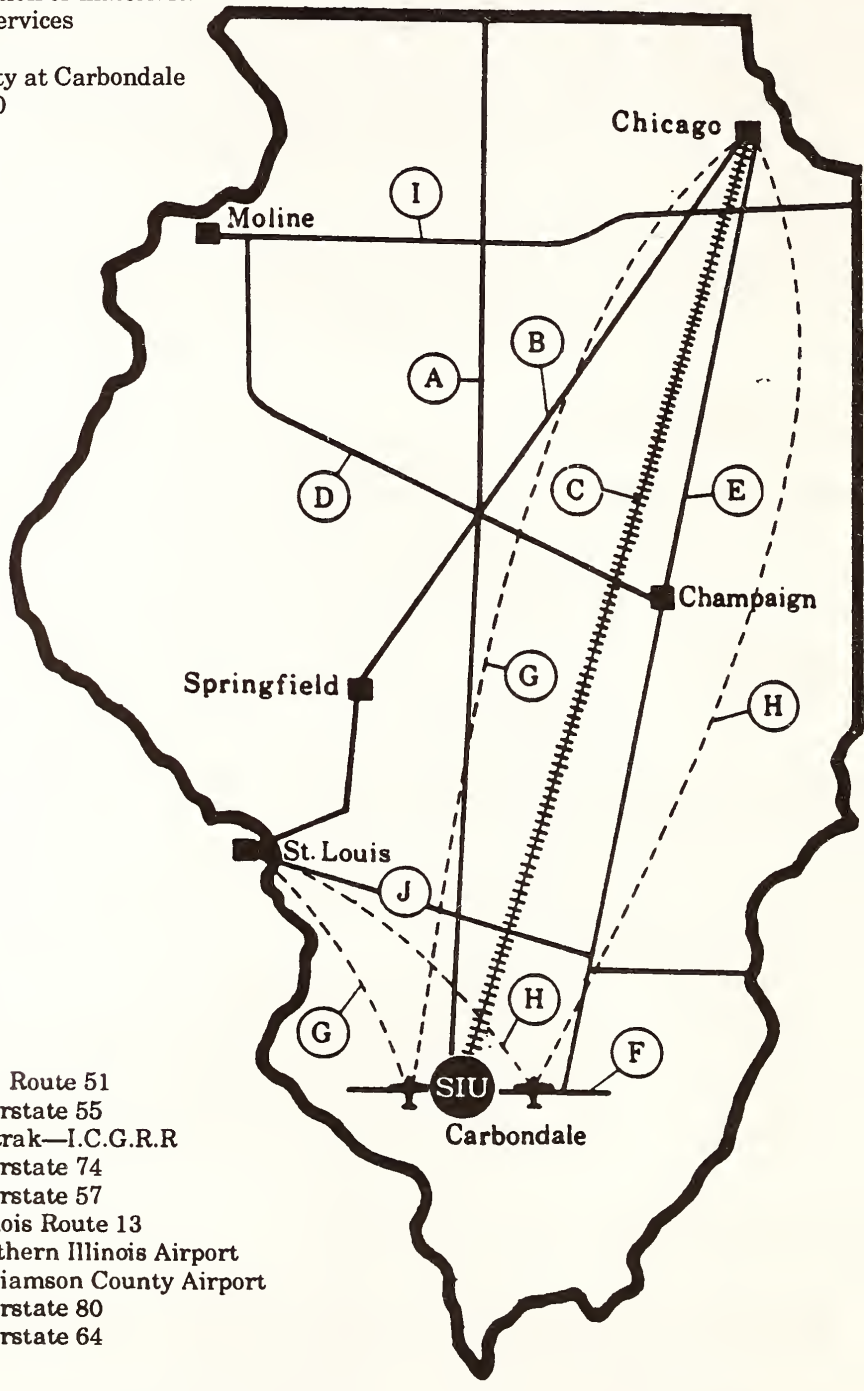
Open Houses are held on campus four or five times each year. Open House activities include admission counseling, academic program exhibits, displays by student organizations, presentations on financial

aid and other student services, campus and departmental tours, and opportunities to enjoy other events and activities.

SIUC Preview Programs are held in northern and central Illinois locations on several weekends between October and May. Activities include admission counseling, small group and individual sessions on financial aid, a dynamic audio-visual presentation, consultation with University Housing, and informational displays on many other programs and services.

New Student Admission Services assists high schools and community colleges by providing representatives for college day and night programs, counseling prospective students, visiting schools and colleges on request, distributing University materials, and providing general assistance to counselors. Counselors may contact New Student Admission Services to make reservations for campus visits and group visit days or to ask for information or materials.

New Student Admission Services
Mailcode 4710
Southern Illinois University at Carbondale
Carbondale, IL 62901-4710
618 536-4405



A U.S. Route 51
B Interstate 55
C Amtrak—I.C.G.R.R
D Interstate 74
E Interstate 57
F Illinois Route 13
G Southern Illinois Airport
H Williamson County Airport
I Interstate 80
J Interstate 64

Transportation to and from Carbondale

AMTRAK, 401 South Illinois Avenue	800 872-7245
Greyhound Bus Service, 717 South University Avenue	618 549-3495
Hertz Rent A-Car, Southern Illinois Airport	800 654-3131
Hertz Rent-A-Car, Williamson County Airport	800 654-3131
Southern Illinois Airport (4 miles west of Carbondale on Illinois 13)	618 529-1721
Williamson County Airport (11 miles east of Carbondale on Illinois 13)	618 993-3353
Yellow Cab, 215 South Illinois Avenue	618 457-8121
Southern Pride Cab Company, 1400 W. Main St. # 17, Carbondale	800 668-8294 *or* 618 529-5038

University Telephone Directory

Listed below are the various offices, schools, and colleges that can help counselors, prospective students, and parents find information that may not be included in the University publications they have. 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, IL 62901.

UNILINK: SIUC'S VOICE-RESPONSE INFORMATION SYSTEM

Students with a touch-tone phone can help themselves to information about their admission and housing applications, financial aid eligibility, class schedules, and more! UniLink, SIUC's voice response system, provides access to information about their files at SIUC. This service is available Monday through Friday from 7:15 a.m. until 7:45 p.m. UniLink also provides information about grades, GPA, and academic status.

Students can reach UniLink by dialing 618 453-SIUC. When students call UniLink they will be asked to enter their SIUC student ID number (Social Security Number), followed by their personal identification number (PIN). The PIN is initially set as the day and year portion of the student's date of birth (DDYY). For example, if you were born on August 9, 1975, your PIN would be 0975. Students can change their PIN by calling UniLink Monday through Friday from 8:00 a.m. until 4:30 p.m. (If students encounter PIN problems, they may contact Admissions and Records at 618 453-4381.)

Offices

SIUC (University Switchboard)	618 453-2121
Admissions and Records	618 453-SIUC (UniLink) or 618 453-4381
Aerospace Studies (Air Force ROTC)	618 453-2481
Airport, Southern Illinois	618 453-1147
Army Military Science (Army ROTC)	618 453-5786
Athletics, Intercollegiate	618 453-5311
Athletics, tickets	618 453-2000
Bursar (payment of fees)	618 453-SIUC (UniLink) or 618 453-2221
Center for Basic Skills (Woody Hall)	618 536-6646
Continuing Education	618 536-7751
Counseling Center	618 453-5371
Disability Support Services	618 453-5738
Financial Aid	618 453-SIUC (UniLink) or 618 453-4334
Health Service	618 453-3311
Housing, on-campus	618 453-SIUC (UniLink) or 618 453-2301
Housing, off-campus	618 453-2301
International Programs and Services	618 453-5774
Library	618 453-2522
New Student Admission Services	618 536-4405
Ombudsman, University	618 453-2411
Parking Division	618 453-5369
Pre-Major Advisement (Woody Hall)	618 453-4351
Student Development	618 453-5714
Study Abroad Program	618 453-7670
Testing (CLEP, Placement/Proficiency, ACT Residual)	618 536-3303
University Honors	618 453-2824
UniLink	618 453-SIUC
Technical Careers, College of (Technical Careers Building)	618 453-8821

Schools and Colleges

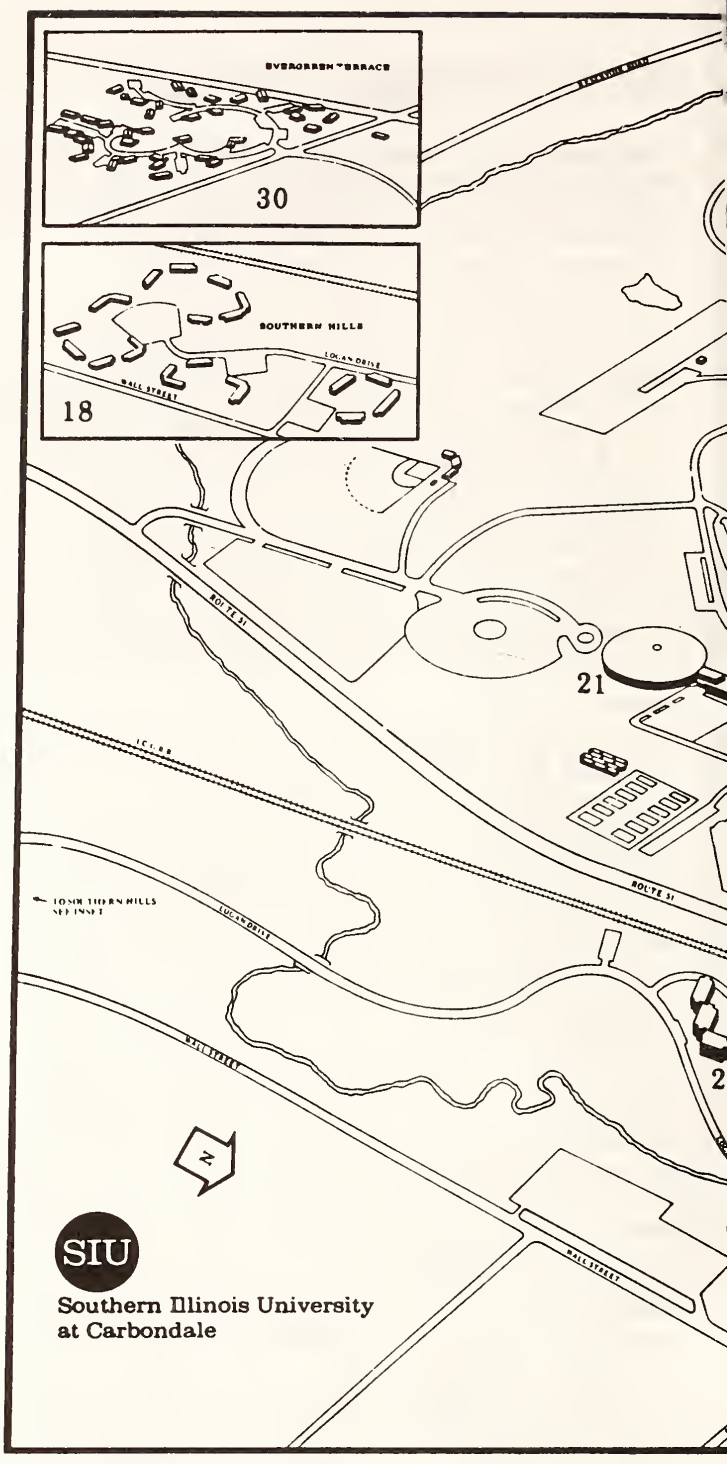
Agriculture, College of (Agriculture Building)	618 453-2469
Business and Administration, College of (Rehn Hall)	618 453-3328
Education, College of (Wham Education Building)	618 453-2415
Engineering, College of (Engineering Building)	618 453-4321
Graduate School (Woody Hall)	618 536-7791
Law, School of (Hiram H. Lesar Law Building)	618 536-7711
Liberal Arts, College of (Faner Hall)	618 453-2466
Mass Communication and Media Arts (Communications Building)	618 453-4308
Medicine, School of (Lindegren Hall)	618 536-5511
Science, College of (Neckers Building)	618 536-6666
Social Work, School of (Quigley Hall)	618 453-2243

Campus

The original eight-building campus with its Gothic architectural tradition is now completely surrounded by a sprawling modern 1128-acre campus where a maze of paths connects distinctive classroom and office 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 256-building campus is now 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 toward teaching and research, the University provides a balance of laboratories and classrooms that serve as satellites to the impressive 7-story Morris Library, which contains over 2 million volumes and subscribes to 13,000 current periodicals.

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



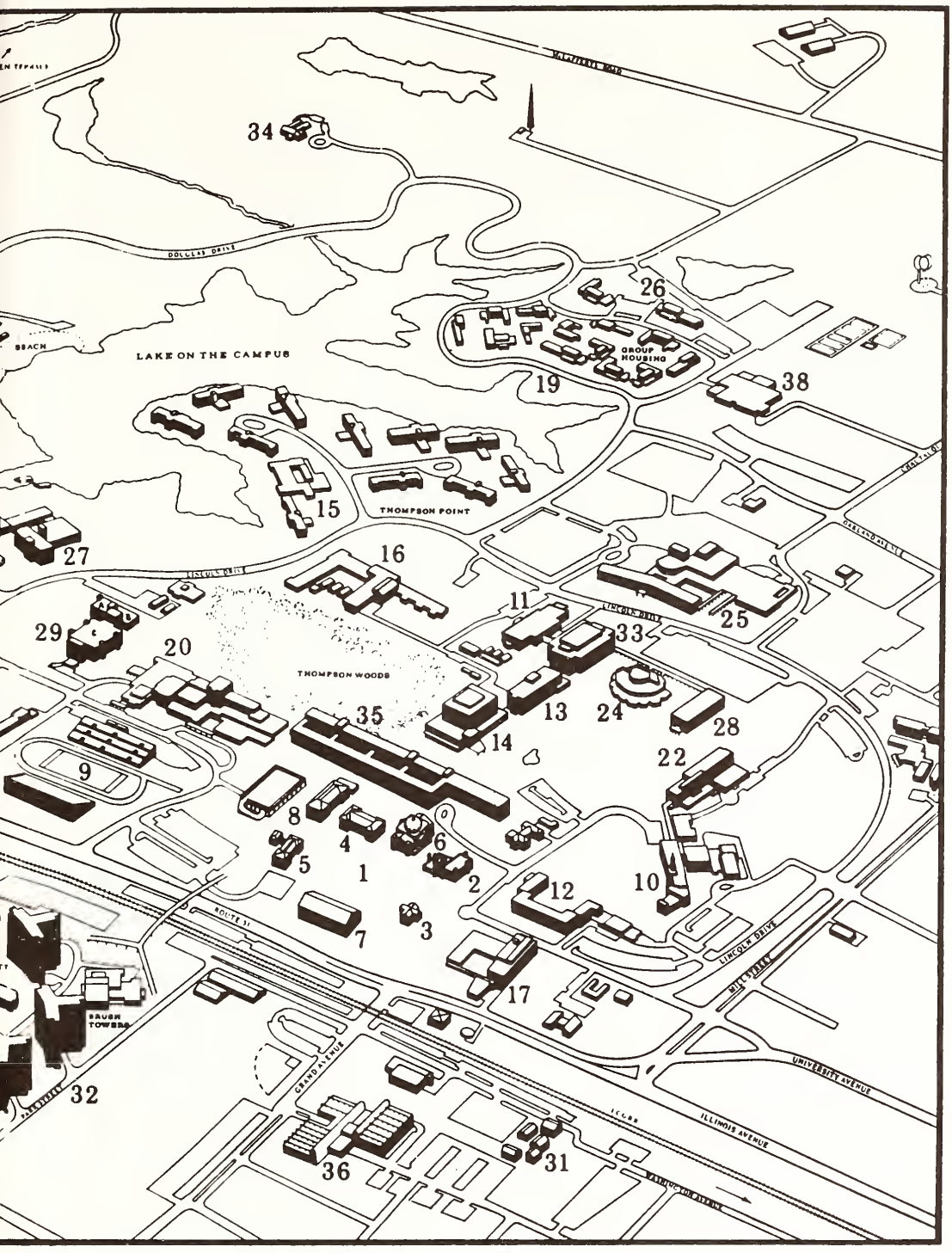
MAP LEGEND

Old Campus

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

New Campus

10. Pulliam Hall (1951)
11. Life Sciences III (1995)
12. Woody Hall (1953)
13. Carl C. and Gertrude Lindegren Hall (1953)
14. Morris Library (1956)
15. Thompson Point Residence Halls (1957)
16. Agriculture Building (1957)
17. Quigley Hall (1959)
18. Southern Hills Family Housing (1960)
19. Greek Row (1960)
20. Student Center (1961)
21. SIU Arena (1964)
22. Wham Education Building (1964)
23. University Park Residence Halls (1965)
24. Lawson Hall (1965)
25. Communications Building (1966)
26. Health Service (1966)
27. Engineering Building (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. Stone House (1971)
35. Faner Hall (1973)
36. Student Recreation Center (1977)
37. Technical Careers Building (1978)
38. Hiram H. Lesar Law Building (1981)



Schools and Colleges

College of Agriculture 16
College of Business and Administration 28
College of Education 22
College of Engineering 27
College of Liberal Arts 35
College of Mass Communication and Media Arts 18
College of Science 29
College of Technical Careers 37
Graduate School 12
School of Law 38
School of Medicine 13
School of Social Work 17

Offices

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

Undergraduate Academic Programs

- Accounting
- Administration of Justice
- Administrative Assistant[10]
- Administrative Services Training[2,10]
- Advanced Technical Studies[2,8]
- Advertising[10]
- Aerospace Studies(Air Force ROTC)[1]
- African Studies[1]
- Aging Studies[1]
- Agribusiness Economics[2]
- Agricultural Education[3, 10]
- Agricultural Information[10]
- Agricultural Mechanization[10]
- Agricultural Production[10]
- Agriculture (Undecided)[4]
- Agriculture, General[2]
  - Agricultural Education[3, 10]
  - Agricultural Information[10]
  - Agricultural Mechanization[10]
  - Agricultural Production[10]
- Agronomist[12]
- Allied Health Careers Specialties[5]
- Animal Science[2]
  - Equine Science[10]
  - Equine Studies[1]
  - Production[10]
  - Science and Pre-Veterinary Medicine[10]
- Anthropology
- Apparel Design[10]
- Aquatics[1]
- Architectural Technology[5]
- Art
  - Art Education[3, 10]
  - Art History[10]
  - Ceramics[10]
  - Drawing[10]
  - Fibers/Weaving[10]
  - General Studio[10]
  - Metalsmithing[10]
  - Painting[10]
  - Printmaking[10]
  - Sculpture[10]
- Asian Studies[1]
- Athletic Training[10]
- Automotive Technology[5]
- Aviation Flight[5]
- Aviation Maintenance Technology[5]
- Aviation Management[2]
- Behavioral Disorders[3, 12]
- Biochemistry[10]
- Biological Sciences
- Black American Studies[1]
- Botany (See Plant Biology)
- Business (Undecided)[4]
- Business and Administration
- Business Economics
- Business Education[3, 10]
- Cartography and Geographic Information Management[11]
- Chemistry[3]
  - Biochemistry[10]
  - Business[10]
  - Environmental[10]
  - Forensic/Chemistry[10]
- Child and Family Services[1,2]
- Chinese[1]
- Cinema and Photography
- Civil Engineering
- Classical Civilization[1]
- Classics[3]
- Clothing and Textiles[2]
  - Apparel Design[10]
  - Retailing[10]
- Coaching[1]
- Commercial Graphics—Design[5]
- Communication Disorders and Sciences[3]
- Community Health[10]
- Comparative Literature[1]
- Computer Engineering[10]
- Computer Science
- Construction Technology[5]
- Consumer Studies[1]
- Court and Conference Reporting[10]
- Creative Writing[10]
- Crop Scientist[12]
- Dental Hygiene[5]
- Dental Technology[5]
- Design
  - Product Design[10]
  - Visual Communication[10]
- Dietetics[10]
- Early Childhood[3]
  - Child and Family Services[1,2]
  - Pre-School/Primary[10]
- East Asian Civilizations[1]
- Economics
- Education, Training and Development[2,10]
- Educational Media[1]
- Electrical Engineering
  - Computer Engineering[10]
- Electrical Engineering Technology[2,10]
- Electronics Management[2]
- Electronics Technology[5]
- Elementary Education[3]
- Engineering (Undecided)[4]
- Engineering Technology
  - Electrical[10]
  - Mechanical[10]
- English
  - Creative Writing[10]
  - General[10]
  - Pre-Professional[10]
  - Teaching[1, 3]
  - World Literature[1]
- Entrepreneurship[10]
- Environmental Planning[11]
- Environmental Studies[10]
- Equine Science[10]
- Equine Studies[1]
- Exercise Science and Physical Fitness[10]
- Finance
  - Financial Institutions[10]
  - Financial Management[10]
- Fire Science Management[2, 9]
- Food and Nutrition
  - Dietetics[10]
  - Hotel, Restaurant and Travel Administration[10]
- Foreign Language and International Trade
- Forensic/Chemistry[10]
- Forestry
  - Forest Resources Management[10]
  - Outdoor Recreation Resource Management[10]
- French[3]
- Geography
- Geology
- German[3]
- Greek[1]
- Health Care Management[2]
- Health Education[3]
  - Community Health[10]
  - Health Education in Secondary Schools[10]
- History[3]
- Home Economics Education[3, 10]
- Hotel, Restaurant and Travel Administration[10]
- Industrial Technology[2]
  - Manufacturing Technology[10]
- Interior Design
- Interpersonal Communication[10]
- Japanese[1]
- Journalism
  - Advertising[10]
  - News-Editorial[10]
- Landscape Horticulture[10]
- Latin[1]
- Learning Disabilities[3, 12]
- Legal Office Assistant[10]
- Liberal Arts (Undecided)[4]
- Linguistics
- Machine Tool[10]
- Management
  - Entrepreneurship[10]
  - Management[10]
  - Management Information Systems[10]
  - Operations Management[10]
- Manufacturing Technology[10]
- Marketing
- Mass Communication and Media Arts (Undecided)[4]
- Mathematics[3]
  - Statistics[11]
- Mechanical Engineering
- Mechanical Engineering Technology[10]
- Medical Office Assistant[10]
- Mental Retardation[3, 12]
- Metal Fabrication & Processes[10]
- Microbiology
- Mining Engineering
- Mortuary Science and Funeral Service[5]
- Museum Studies[1]

- Music
  - Liberal Arts[10]
  - Music Business[10]
  - Music Education[3, 10]
  - Music Theory/Composition[10]
  - Performance[10]
    - Instrumental[10]
    - Jazz[10]
    - Keyboard[10]
    - Voice[10]
  - Piano Pedagogy[10]
- News-Editorial[10]
- Office Systems and Specialties[5]
  - Administrative Assistant[10]
  - Court and Conference Reporting[10]
  - Legal Office Assistant[10]
  - Medical Office Assistant[10]
- Organizational Communication[10]
- Outdoor Recreation Resource Management[10]
- Paralegal Studies for Legal Assistants[2]
- Persuasive Communication[10]
- Philosophy
- Photographic Production Technology[5]
- Physical Education
  - Athletic Training[10]
  - Exercise Science and Physical Fitness[10]
  - Teaching[3, 10]
- Physical Therapist Assistant[5]
- Physics
- Physiology
- Plant and Soil Science[2]
  - Agronomist[12]
  - Business[10]
  - Crop Scientist[12]
  - Environmental Studies[10]
  - General[10]
  - Landscape Horticulture[10]
  - Science[10]
  - Soil Scientist[12]
- Plant Biology
- Political Science[3]
- Pre-Dentistry[6]
- Pre-Law[6]
- Pre-Major[7]
- Pre-Medicine[6]
- Pre-Nursing[6]
- Pre-Optometry[6]
- Pre-Osteopathy[6]
- Pre-Pharmacy[6]
- Pre-Physical Therapy[6]
- Pre-Podiatry[6]
- Pre-School/Primary Education[3, 10]
- Pre-Veterinary Medicine[6]
- Product Design[10]
- Psychology
- Public Relations[10]
- Radio-Television
- Radiologic Technology[5]
- Recreation
  - Program Services[10]
  - Therapeutic Recreation[10]
- Rehabilitation Services
- Respiratory Therapy Technology[5]
- Retailing[10]
- Russian[3]
- Science (Undecided)[4]
- Social Studies[3]
- Social Work
- Sociology
- Soil Scientist[12]
- Spanish[3]
- Special Education[3]
  - Special Education and Elementary Education[10,12]
  - Behavioral Disorders[12]
  - Learning Disabilities[12]
  - Mental Retardation[12]
- Speech Communication
  - Interpersonal Communication[10]
  - Organizational Communication[10]
  - Performance Studies[10]
  - Persuasive Communication[10]
  - Public Relations[10]
- Statistics[11]
- Theater
- Therapeutic Recreation[10]
- Tool and Manufacturing Technology[5]
  - Machine Tool[10]
  - Metal Fabrication and Processes[10]
  - Tool Design[10]
- University Studies
- Women's Studies[1]
- Workforce Education and Development[2]
  - Administrative Services Training[2,10]
  - Business Education[3, 10]
  - Education, Training and Development[2,10]
  - Home Economics Education[3, 10]
  - Vocational Teacher Development[2,10]
- World Literature[1]
- Zoology[3]

[1] Minor only.
[2] Capstone Option available if an A.A.S. degree is completed. The Capstone Option application must be on file by the end of a student's first semester at SIUC. Additional qualification requirements are detailed under "Capstone Option," p. 34.
[3] Teacher certification program option available.
[4] Not a major; students enter the academic unit as their major and decide a specific major later.
[5] Associate degree program; can lead toward bachelor's degree or third-year specialization beyond the associate degree.
[6] Pre-professional program.
[7] Pre-Major is a classification given all entering students who are undecided about a major.
[8] An individualized program of study for applicants with occupational, technical, or similar educational background.
[9] Offered off-campus only.
[10] Specialization.
[11] Concentration.
[12] Certification program.

Accreditations and Affiliations

One measure of the strength and reputation of a university is the accreditations it holds. Among those groups that have given accreditation to SIUC as a whole or to its individual programs are:

North Central Association of Colleges and Schools
Accreditation Board for Engineering and Technology
Accreditation Council of the American Assembly of Collegiate Schools of Business
Accrediting Council on Education in Journalism and Mass Communication
American Association for Accreditation of Laboratory Animal Care
American Association of Airport Executives
American Association of Museums
American Bar Association
American Board of Funeral Service Education
American Camping Association
American Chemical Society
American Dietetic Association
American Library Association
American Physical Therapy Association
American Psychological Association
American Speech-Language-Hearing Association, Educational Standards Board
Association of American Law Schools
The Association of American Publishers
The Association of American University Presses
Association of Collegiate Schools of Architecture
Association of Research Libraries
Commission on Accreditation, Council on Social Work Education
Commission on Accreditation of Rehabilitation Facilities
Commission on Accreditation in Physical Therapy Education and American Physical Therapy Association
Commission on Dental Accreditation of the American Dental Association
Committee on Allied Health Education Accreditation of the American Medical Association via Joint Review Committee for Radiologic Technology Education
Committee on Allied Health Education Accreditation via Joint Review Committee for Respiratory Therapy Education
Community Development Society
Connecticut State Board of Education
Council for Accreditation for Counseling and Related Educational Programs
Council on International Education Exchange
Council on Rehabilitation Education
Council on Social Work Education
Federal Aviation Administration
Federation of Schools of Accountancy
Foundation for Interior Design Education Research
Honors Council of the Illinois Region
House of Delegates of the American Bar Association
Illinois Alcohol and Other Abuse Professional Certification Association, Inc.
Illinois State Board of Education
Liaison Committee on Medical Education of the American Medical Association and the Association of American Medical Colleges
National Academy of Early Childhood Programs sponsored by the National Association for the Education of Young Children
National Association of Industrial Technology
National Association of Schools of Art and Design
National Association of Schools of Music
National Association of Schools of Public Affairs and Administration
National Association of Schools of Theater
National Athletic Trainers Association
National Automotive Technicians Education Foundation
National Collegiate Honors Council
National Council for Accreditation of Teacher Education
National Court Reporters Association
National Fire Protection Association
National Institute for Automotive Service Excellence
National League for Nursing
National Recreation and Parks Association
National Shorthand Reporters Association Accreditation Council
Photo/Marketing Association International
Service Members Opportunity Colleges
Society of American Foresters
University Aviation Association, Airway Sciences Curriculum Committee
University Council for Vocational Education
Upper Midwest Honors Council

Application Procedures for Admission

Application Request

To request undergraduate admission application materials, write or call:

New Student Admission Services
Mailcode 4710
Southern Illinois University at Carbondale
Carbondale, IL 62901-4710
618 536-4405

ACT Application

Incoming freshmen can simplify their admission to SIUC by indicating, at the time they write the American College Test (ACT), that their test scores should be sent to Southern Illinois University at Carbondale (college code 1144). Students who take the ACT on a national test date and send their scores to SIUC will be sent an undergraduate admission application. This document must be completed and returned to SIUC's Admissions and Records office with a copy of the student's high school transcript that shows completion of at least the sixth semester (junior year) and data on class rank and size.

Students who do not send their ACT scores as a result of an ACT national test date must request an application by contacting SIUC New Student Admission Services.

Required Materials and Procedures

NEW FRESHMEN APPLICANTS

Freshmen may be considered for admission at any time following their junior year *or* sixth semester in high school. Prospective first-time freshmen should submit:

1. completed and signed undergraduate admission application form;
2. high school transcript signed with class rank, class size, and if available, ACT scores;
3. official ACT scores (from Iowa City).

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

G.E.D. APPLICANTS

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

1. completed and signed undergraduate admission application form;
2. high school transcript(s) of completed credits;
3. official G.E.D. test results;
4. official ACT scores (required of students less than 21 years of age).

TRANSFER STUDENT APPLICANTS

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 completed at least 26 semester hours or 39 quarter hours prior to entering SIUC will be considered for admission on submission of the following materials:

1. completed and signed undergraduate admission application form;
2. official transcripts from *each* institution attended after high school.

Transfer students who will have completed fewer than 26 semester hours or 39 quarter hours prior to actual SIUC enrollment may also be considered for admission as early as one year in advance, if they qualify for admission as incoming freshmen and have the required minimum college grade-point average. Students will be considered for admission on submission of the following materials:

1. completed and signed undergraduate admission application form;
2. official transcript from all institutions attended after high school;
3. high school transcript;
4. official ACT scores.

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

Admission of Freshmen

To be eligible for admission, an applicant must be a graduate of a recognized high school. Graduates of high schools that are not recognized may be admitted to the University by successfully completing the General Educational Development (G.E.D.) Test or an approved entrance examination.

Admission granted while a student is in high school is subject to the completion of high school work and graduation.

Students entering the University as freshman are, if they are eligible, enrolled in the academic unit offering the degree program of their choice. Students who are undecided about the course of study they want to follow are enrolled as pre-major students.

Some degree programs allow entry only in fall, some programs require screening and materials beyond what is required for admission into the University, and some programs have admission standards higher than those required for entering the University.

Applicants who have an ACT composite score of 20 or higher (SAT I 950 or SAT 810) are eligible for admission in any semester. High school graduates who rank in the upper half of their graduating class and who score a minimum ACT composite of 18 or higher (SAT I 820 or SAT 710) are also eligible for admission in any semester. Refer to "High School Course Pattern Requirements," p. 11.

A limited number of new freshman applicants who do not meet the University's entrance requirements may be granted admission through a selective admission program, the Center for Basic Skills. All new freshman applicants who are not admissible under the standard requirements will have their applications reviewed for admission to the selective program.

ADMISSION OF G.E.D. APPLICANTS

Applicants who have not completed high school may become eligible for admission by satisfactorily passing the G.E.D. examination and submitting all required materials. Students under 21 years of age are required to achieve a minimum ACT score of 18 for admission to four-year programs. Course pattern requirements will be required for those under 21 years of age.

Admission of Transfer Students

Applicants are considered to be transfer students if they present for consideration any amount of graded work that was earned after high school graduation. Otherwise they are considered for admission as new freshmen.

If transfer students' grade-point averages cannot be determined, their admission may require secondary school records and standardized examinations in addition to a review of college performance.

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

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

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

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

Students who have an overall *C* average as computed by SIUC (2.0 on a 4.0 scale, at all institutions), and are eligible to continue their enrollment at the last institution attended, are eligible to be considered for admission in any semester. A student seeking to enter SIUC with fewer than 26 semester hours will be required to meet the admission requirements of an incoming freshman as well as of a transfer student. This student should refer to "High School Course Pattern Requirements," p. 11.

Students with associate degrees in baccalaureate-oriented programs from regionally accredited Illinois two-year institutions may enter Southern Illinois University at Carbondale in any semester without regard to their average if they have not taken additional college work since graduation. If they have completed additional work, their admission will be considered on the basis of the University's regular transfer admission standards.

A student who has completed a two-year or equivalent program with a *C* average or better 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 Na-

tional Commission on Accrediting or the United States Office of Education. Students who have attended an institution not regionally accredited and who have not completed two-year or equivalent programs or have less than a *C* average will be considered for admission as incoming freshmen.

Students who have been placed on scholastic probation or academic suspension at 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 an interruption of schooling for one or more years, military experience, work experience, and previous academic performance.

SOME PROGRAMS BEGIN IN FALL ONLY

In most cases, students may apply for any major in any term. However, a few majors at SIUC permit new students to enter in the fall semester only. They are: architectural technology, commercial graphics-design, dental hygiene, dental technology, physical therapist assistant, radiologic technology, and respiratory therapy technology.

Some programs offer major courses beginning in the fall only, but will permit students to begin in the spring and summer terms to take non-major courses. These programs are: construction technology, electronics technology, and mortuary science and funeral service.

SOME PROGRAMS REQUIRE ADDITIONAL MATERIALS AND/OR SCREENING

In addition to the Undergraduate Admission Application and the required educational records, some programs require applicants to submit other materials. These programs are: aviation fiight, commercial graphics-design, dental hygiene, mortuary science and funeral service, physical therapist assistant, and radiologic technology. After applicants to these programs have been admitted to the University, they will receive information and instructions from the program coordinator.

The following majors require that students be screened beyond the regular SIUC admission requirements before entering directly into the programs: administration of justice, advanced technical studies, anthropology, athletic training, aviation fiight, aviation management, commercial graphics-design, dental hygiene, electronics management, fire science management, foreign language and international trade, health care management, mortuary science and funeral service, physical therapist assistant, radio and television, radiologic technology, recreation, respiratory therapy technology, social work, special education, and all teacher education programs.

High School Course Pattern Requirements

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

Transfer students with more than 26 semester or 39 quarter hours are exempt from the high school course pattern requirements. Also exempt are students whose class rank is in the upper 25th percentile and who have earned an ACT composite score at the 75th percentile or higher, based on college-bound norms. Currently the ACT composite score is 23.

Course Pattern Requirements

English	4 yrs.
Mathematics*	3 yrs.
Lab Science	3 yrs.
Social Science	3 yrs.
Electives (Art, Music, Foreign Language, Voc. Education)	2 yrs.

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

* Engineering programs require 3.5 units of mathematics for admission.

COURSE PATTERN DEFINITIONS

English: Acceptable course work must emphasize written and oral communication and literature. Typically not acceptable are general reading, mass communications, radio/television/film, and theater.

Mathematics: Acceptable course work includes algebra through advanced algebra, geometry, trigonometry, or fundamentals of computer programming. Typically not acceptable are pre-algebra, business math, and career or consumer math.

Laboratory Science: Acceptable course work must emphasize laboratory science, including biology, chemistry, physics, earth science, or other college preparatory science. Typically not acceptable are general science courses.

Social Science: Acceptable course work must emphasize history and government. Also acceptable are anthropology, economics, geography, political science, psychology, and sociology.

Electives: Acceptable course work includes foreign language, music, art, or vocational education.

COURSE PATTERN DEFICIENCIES

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

English
- Earn an ACT English subscore at the 60th percentile (ACT 21), or
- Complete a prescribed section of English 101–Composition at SIUC, or
- Earn a score of 540 on the CLEP English Composition with Essay Examination, or
- Earn an SAT I verbal score of 540 (SAT 460), or
- Earn a grade of 3, 4, or 5 in English through the High School Advanced Placement Program.

Mathematics
- Earn an ACT mathematics subscore at the 60th percentile (ACT 21), or
- Complete prescribed mathematics course at SIUC, or
- Earn a score of 580 or higher on the CLEP Mathematics Examination, or
- Earn a grade of 3, 4, or 5 in mathematics or computer science through the High School Advanced Placement Program, or
- Earn an SAT I mathematics score of 540 (SAT 520) or higher.

Laboratory Science
- Earn an ACT science reasoning (ACT 22) subscore at the 60th percentile, or
- Complete a prescribed science course at SIUC, or
- Earn a score of 520 or higher on the CLEP Natural Sciences Examination, or
- Earn a grade of 3, 4, or 5 in either physics, chemistry, or biology through the High School Advanced Placement Program.

Social Science
- Earn an ACT reading (ACT 22) subscore at the 60th percentile, or
- Complete a prescribed social science course at SIUC, or
- Earn a score of 520 or higher on the CLEP social science and history examination, or
- Earn a grade of 3, 4, or 5 in either American history, European history, American government, or comparative government and politics through the High School Advanced Placement Program.

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

NOTE: A deficiency may also be corrected at another institution before transfer to SIUC. It is also possible to redistribute excessive units to correct course-pattern deficiencies, as follows: high school units in excess of the required number of units in mathematics, social science, or lab science may be distributed among other categories by applying no more than one unit to any of the following categories: mathematics, social science, lab science, or electives.

Admission of Special Categories of Students

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

SECOND CHANCE PROGRAM

The Second Chance Program provides a second opportunity by which *former* Southern Illinois University at Carbondale students who had poor scholastic performance in their initial enrollment can demonstrate their academic capabilities. Students in selected majors can establish a new grade-point average calculated from their first semester of readmission. Applicants must be approved for readmission by the dean of the academic unit to which they wish to be admitted before they can be considered for the program. They can be readmitted only once under the Second Chance Program.

Not all University departments are participating in the Second Chance Program. For a listing of those departments not participating, refer to the *Undergraduate Catalog*.

Program Eligibility Requirements. Former Southern Illinois University at Carbondale students may apply for entrance to the Second Chance Program if they are in any of the following groups:

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

ADMISSION OF VETERANS

Veterans who have completed one or more years of active duty are admitted to SIUC without regard to their academic records before entering the service, but must satisfy high school course pattern requirements as described above and must submit all official transcripts before the application for admission can be processed. In any college course work completed since separation, veterans must have an overall *C* average (2.0 on a 4.0=*A* scale).

SELECTIVE ADMISSION OPTION

The University operates a program through which educationally and socially disadvantaged students may be admitted to the University. New freshmen who do not meet established admission requirements will be considered under specific conditions. Students whose academic records show potential for completing a college program with support from the University's Center for Basic Skills may be offered admission.

ADMISSION OF ADULTS AS UNCLASSIFIED STUDENTS

Adults who have never enrolled in an institution of higher education may enroll as non-degree students in selected courses without going through the regular admission program. They must have high school diplomas or G.E.D. certificates. Applicants interested in seeking admission as unclassified students should write to Admissions and Records.

EVENING AND WEEKEND PROGRAMS

Area residents may attend the University's evening (after 4 P.M.) and weekend credit course offerings through the Evening and Weekend Program of the Division of Continuing Education. The application, admission, and registration process is streamlined for such students, who may enroll for a maximum of eight hours' credit each semester at a reduced fee. Interested students should call the Division of Continuing Education at 618 536-7751.

ADMISSION OF INTERNATIONAL STUDENTS

International students must meet the academic admission standards required of native students. As there is considerable variation between educational systems throughout the world, precise comparative standards are not always available.

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

Students who have acquired immigrant status are also required to demonstrate English proficiency. English proficiency can be demonstrated by successful completion of the TOEFL examination. Immigrants who have completed at least two years of study in a United States high school, have earned 60 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, must also submit a photocopy of their green card with the application for admission.

Before an international student can be granted official admission, a bank statement from the sponsor must be submitted, indicating sufficient financial resources to cover educational and personal costs for one year. Students who are admissible and whose TOEFL score is 520 or higher will be granted unconditional admission. Applicants whose TOEFL scores are below 520 are granted conditional admission contingent on completion of an institutional TOEFL administered by the SIUC Center for English as a Second Language (CESL). Students who fail to submit TOEFL scores, or who submit unacceptable TOEFL scores, will be required to attend CESL at their own expense. Sponsoring agencies that 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 Admissions and Records, Mailcode 4701, Southern Illinois University at Carbondale, Carbondale, IL 62901-4701.

Programs with Additional Admission or Retention Requirements

ACCOUNTING PROGRAM ADMISSION OR RETENTION REQUIREMENTS

Students entering the Department of Accounting must earn a grade of *B* or better in both ACCT 220 and 230 as prerequisites to the upper-division courses in the major.

ADMINISTRATION OF JUSTICE PROGRAM ADMISSION REQUIREMENTS

Students wishing to enter the administration of justice program must apply for admission to the major. The application must be approved by the director of the program. Admission requires a minimum grade point average of 2.25, based on at least 15 semester hours of college-level courses.

ANTHROPOLOGY PROGRAM ADMISSION REQUIREMENTS

Students entering the Department of Anthropology must have an overall grade-point average of 2.5 or better. Highly motivated students failing to meet this requirement are encouraged to petition the Undergraduate Studies Committee with a one-page statement justifying their admission.

ELEMENTARY EDUCATION PROGRAM ADMISSION REQUIREMENTS

Effective summer 1994, all students who plan to major in elementary education will first be admitted as pre-elementary education students, provided they meet the University's admission policy and have the potential to meet the teacher education program requirements stated below. Beginning freshmen will be granted pre-elementary education major status. Freshmen are advised by a College of Education academic adviser for the purpose of completing the courses required to become elementary education majors.

Transfer students must meet University admission requirements to be granted pre-elementary education major status for the purpose of advisement toward the elementary education major.

Students who are currently enrolled in or have previously attended SIUC in a major other than elementary education may request admission to the elementary education program as pre-elementary education majors for the purpose of advisement.

Transfer and reentering students who have earned more than 45 hours of transfer credit and have a grade point average of 2.2 to 2.5 will have their applications reviewed by the department to determine if they are admissible to the pre-elementary education major classification.

To be considered elementary education majors, students must have completed 45 semester hours with an overall grade point average of 2.5 (4.0 scale) in all college work and have obtained a satisfactory score on a pre-professional test of basic skills. In addition students must have successfully completed the following university core curriculum courses: (a) ENGL 101, ENGL 102, and SPCH 101, and (b) two of the following: POLS 114, PSYC 102, HIST 110.

TEACHER EDUCATION PROGRAM ADMISSION REQUIREMENTS

All students who meet University admission requirements may be admitted to the College of Education with a specific departmental major. Students may advance to the teacher education certification program when they have completed a minimum of 30 semester hours. A total of 160 students will be admitted on two admission dates: March 1 and October 1. Completed applications must be submitted, by February 20th or September 20th, to 135 Wham Building. A student is eligible to apply for acceptance to the teacher education program when the following criteria are met:

1. A minimum of 30 semester hours of completed work;
2. An overall grade-point average of at least 2.5 (4.0=*A*) in all college work;
3. Completion of ENGL 101 and ENGL 102 with a grade of *C* or better;
4. Three letters of recommendation from college or university faculty;
5. An ACT composite score of 18 or higher.

Students who meet the first four criteria but do not meet the ACT score requirement may make application for conditional admission to the teacher education program if the goal of 160 students per semester is not met. A description of criteria to be used for conditional admission and the procedures to be followed for this admission route may be obtained in Wham 135.

If the application is approved, a membership card will be issued that allows the student to begin work in the courses prerequisite to student teaching. At the end of the first semester the department offering the degree program will report on the student's status in the program. Failure to obtain approval prohibits the student from continuing the program, and could lead to dismissal. Criteria for the recommendation are available from the department or the student's adviser. To remain in the program and complete the requirements for graduation and teacher certification, the student must maintain a 2.5 or better grade-point average in the major and receive departmental approval. Both requirements must be met before final clearance can be given for a student-teaching assignment. Students who do not meet the criteria of the teacher education program or their major department will be counseled about alternatives.

FOREIGN LANGUAGE AND INTERNATIONAL TRADE PROGRAM ADMISSION REQUIREMENTS

All students planning to enter the Foreign Language and International Trade degree program begin in the pre-foreign language and international trade classification. Admission to the program may be requested only after completion of all qualifying courses. Approval is dependent on the following: the language skills course grade must be at least *B*, remaining qualifying course grades must be at least *C*, and the overall grade-point average must be 2.75 or better.

Qualifying courses:

SIUC Language Skills Course 320 (Russian or Spanish), 320b (other languages)
PSYC 102 and POLS 250
MATH 139
ECON 241
MGMT 208 or ECON 308 or ACCT 208

After admission, a minimum overall grade-point average of 2.75 must be maintained. Students falling below that level will be placed on probation. If after one semester on probation the grade-point average is back to 2.75, students may request reinstatement to the degree program.

LINGUISTICS PROGRAM RETENTION REQUIREMENTS

The degree program in linguistics consists of a minimum of 34 semester hours and comprises a core of basic courses in general linguistics and a variety of electives. Admission to the major requires a grade-point average of 2.5. The core program, 22 semester hours in Linguistics 104, 200, 300, 402a, 405, 406, and 408, is usually taken at SIUC. Students majoring in linguistics are required to maintain a grade of *C* or better in the core courses.

PARALEGAL STUDIES PROGRAM ADMISSION REQUIREMENTS

To be admitted to the paralegal studies program, students must meet a minimum 2.25 GPA (4.0=*A*) requirement as calculated by SIUC.

PHYSICAL THERAPIST ASSISTANT PROGRAM RETENTION REQUIREMENTS

To advance to the next course in the degree program, students in the physical therapist assistant program are required to maintain a grade-point average of 2.0 or better in each core course.

RADIO AND TELEVISION PROGRAM ADMISSION REQUIREMENTS

To be admitted to the Department of Radio-Television, incoming freshmen must rank in the top 25 percent of their high school graduating class and have an ACT Standard Composite score of 20 or higher, or rank in the top 50 percent of their graduating class and have an ACT Standard Composite score of 22 or higher.

Transfer students seeking admission from another institution or from another program at SIUC must have a grade-point average of 2.25 or better.

Transfer students with fewer than 26 semester hours must have a grade-point average of 2.25 or better as well as the rank and test score requirements of an incoming freshman.

Retention Policy

Radio-Television students are required to maintain a grade-point average of 2.0 or better in the degree program. A student who does not achieve a cumulative grade-point average of 2.0 or better in the degree program in any one semester is subject to departmental warning.

Students who are on departmental warning and do not earn an overall grade-point average of 2.0 or better in radio-television courses in a subsequent semester will be placed in a status of departmental dismissal. Departmentally dismissed students may appeal to the undergraduate committee for reinstatement into the program.

RECREATION PROGRAM ADMISSION REQUIREMENTS

To be admitted to the Department of Recreation, incoming freshmen must rank in the top half of their high school graduating class and have a standard composite ACT score of 19 or higher. Transfer students seeking admission from another institution or from another program at Southern Illinois University at Carbondale must have a 2.25 GPA (4.0=*A*) or higher. Transfer students with fewer than 26 semester hours must have a 2.25 GPA or higher as well as the rank and test score requirements of an entering freshman.

SCHOOL OF SOCIAL WORK ADMISSION REQUIREMENTS

The following policy applies to all new and currently enrolled students at Southern Illinois University at Carbondale, effective summer 1996.

Incoming Freshmen

Incoming freshmen who qualify for admission to the School of Social Work are granted admission with a pre-social work classification. A social work academic adviser will aid them in completing the prerequisites for the social work degree program.

To be considered a social work major, a student must:

A. complete 56 semester hours with an overall SIUC grade-point average of 2.5 (4.0 scale);
B. complete the following university core curriculum courses: PLB 115 or ZOOL 115, SOC 108, PSYC 102, POLS 114, and ECON 113.
C. achieve a grade of *C* or higher in social work courses 275 and 383 [these courses may not be repeated for eligibility to the social work major].

Transfer Students

Transfer students who have completed fewer than 26 semester hours must meet the admission requirements of incoming freshmen and have a collegiate grade-point average of 2.25 or better (4.0 scale) to be granted admission with a pre-social work classification.

Students who have completed more than 26 semester hours must have a grade-point average of 2.25 or better to be admitted as pre-social work majors. Students will be considered for the social work major when they have:

A. completed 56 semester hours and earned an overall SIUC grade-point average of 2.5 or better (4.0 scale);
B. completed social work courses 275 and 383 with a grade of *C* or better [these courses may not be repeated for eligibility to the social work major];
C. completed the following university core curriculum courses or their equivalents: PLB 115 or ZOOL 115, SOC 108, PSYC 102, POLS 114, and ECON 113.

SIUC Students

Students currently or previously enrolled at SIUC in a degree program other than social work may request admission to the School of Social Work as pre-social work majors if they have overall grade-point averages of 2.25 or better. To be considered for admission as social work majors, re-entering and currently enrolled students must have:

A. completed 56 semester hours with an overall SIUC grade-point average of 2.5 or better (4.0 scale);
B. completed the following university core curriculum courses or their equivalents: PLB 115 or ZOOL 115, SOC 108, PSYC 102, POLS 114, and ECON 113;
C. completed social work courses 275 and 383 with grade of *C* or better (these courses may not be repeated for eligibility to the social work major).

In calculating the grade-point average of new, continuing, and re-entering students for admission purposes, the School of Social Work will follow the SIUC grading policy and procedures for all collegiate work attempted at SIUC and other collegiate institutions.

Advisement and Registration

ON-CAMPUS ADVISEMENT AND REGISTRATION

During advisement and registration students meet with advisers to determine their courses at SIUC and the times and days of the week for each class they choose.

Prior to the advisement and registration period, SIUC will mail to admitted new students information and a phone number for scheduling an advisement and registration appointment.

SIUC students who complete their advisement and registration early may have a good chance of designing a convenient, time-efficient semester. Many students are able to arrange class schedules that allow for extensive study time, part-time jobs, commuting needs, athletic or recreational activities, or involvement in student organizations.

Advisement and registration for summer and fall semester classes begins in March for students new to SIUC. For students entering SIUC in the spring semester, advisement and registration begins in November.

ADVISEMENT AND REGISTRATION IN CENTRAL AND NORTHERN ILLINOIS

SIUC offers special advisement and registration opportunities for the summer and fall semester—in March in Springfield and in May in the Chicago area. (A fee is required for advisement and registration off campus.) Students will receive details through the mail about these off-campus opportunities prior to the advisement and registration period.

EARLY ADVISEMENT AND REGISTRATION

No payment is required at the time of advisement and registration if the student completes the procedure before the first billing statement is mailed. SIUC will mail statements of account approximately one month before each semester begins. Statements of account include information about payment procedures and payment due dates.

If the Bursar has not received a student's first payment by the due date the registration for that semester will be canceled.

LATE ADVISEMENT AND REGISTRATION

Students whose advisement and registration appointments are scheduled to take place after SIUC mails the first statement of account will be required to make a tuition and fee prepayment before their appointments. Prepayment is equal to the cost of one credit hour of tuition and fees for an in-state student. Fall 1994 prepayment was $312.39.

CAMPUS TOURS AVAILABLE ON WEEKDAYS

To arrange a guided tour of campus on the day of your advisement and registration appointment, contact New Student Admission Services, 618 536-4405. Allow one hour for your advisement and registration appointment and one hour and fifteen minutes for your campus tour.

NEW STUDENT ORIENTATION

A formal orientation program is offered before classes begin each semester. Admitted students will receive information through the mail before their first semester with details about the activities

scheduled for each day of orientation. All students are strongly encouraged to attend. For more information, contact Student Development (618 453-5714).

LODGING AND PARKING DURING ADVISEMENT AND REGISTRATION

Lodging facilities are available at various motels in and near the Carbondale community. A list is included in the advisement and registration guide sent to all admitted new students prior to the advisement and registration period. In addition, a campus parking permit is included in the guide for use in SIUC campus parking lots.

ADVISEMENT CENTER TELEPHONE DIRECTORY

	Area Code 618
Agriculture	453-3080
Business and Administration	453-7496 *or* 536-4431
Education	453-2354
Engineering	453-1636
Liberal Arts	453-3388
Art	453-4313
Design	453-4313
Music	453-5806
All other majors in the College Of Liberal Arts	453-3388
Mass Communication and Media Arts	453-4308
Cinema and Photography	453-2365
Journalism	536-3361
Radio and Television	453-6902
Mass Communication and Media Arts (undecided)	453-4308
Science	536-5537
Social Work	453-2243
Technical Careers	
Advanced Technical Studies *	453-7263
Architectural Technology*	453-3734
Automotive Technology	453-4024
Aviation Flight*	453-1147
Aviation Maintenance Technology	536-3371
Aviation Management	453-8898
Commercial Graphics/Design*	453-8863
Construction Technology	453-4024
Dental Hygiene*	453-7211
Dental Technology	453-7215
Electronics Management *	453-7200
Electronics Technology	453-7200
Health Care Management	453-7211
Interior Design*	453-3734
Mortuary Science and Funeral Service*	453-7214
Office Systems and Specialties	453-7253
Photographic Production Technology	453-8868
Physical Therapist Assistant*	453-2361
Radiologic Technology*	453-8882
Respiratory Therapy Technology*	453-7211
Tool and Manufacturing Technology	453-4024
Undergraduate Academic Advisement	
Pre-Major—Undecided	453-4351
Pre-Major—Selective Admissions, Center for Basic Skills	536-6646
Pre-Nursing	453-4351

* Students who have been admitted to this major will be contacted by their program coordinator about advisement and registration and should not call for an appointment.

SIUC Student Housing Policy

All single freshmen under the age of 21, not living with parent or legal guardian, are required to live in an on-campus residence hall.

Sophomores under the age of 21, not living with parent or legal guardian, are required to live either in an on-campus residence hall or in a privately owned, sophomore-qualified facility. Such facilities are not required to provide food service but must have University-approved adult managers, access to kitchen facilities, and inspection and approval by the University.

Freshmen and sophomores under the age of 21, living with parent or legal guardian, are required to file a *Report of Single Undergraduate Living With Parent/Legal Guardian* form with the Off-Campus Housing Office. Students are also allowed to live with an approved brother/sister/grandparent, but certain forms must be filed with Off-Campus Housing. Contact Off-Campus Housing, Washington Square D, for more information.

There are no restrictions for juniors (56 SIUC earned/accepted hours), seniors, students over the age of 21 (or who will be 21 years of age by the first day of classes), veterans, or married students.

On-Campus Housing for Single Undergraduates

Brush Towers

The Brush Towers residential area, on the southeast edge of the SIUC campus, has two 17-story air-conditioned residence halls (Mae Smith and Schneider Halls). Each building houses approximately 800 students (male, female, co-ed). Residents may use the computer lab located at University Park.

University Park

The University Park residential area, on the southeast edge of the SIUC campus, has one 17-story residence hall (Neely Hall: male, female, co-ed), and three four-story residence halls called the Triads(Allen, Boomer, and Wright Halls: female, male, coed, and single rooms). Neely houses approximately 800 students and each of the Triads houses approximately 360 students. The Triads are open for all official holidays and break periods. All buildings are air-conditioned, and a computer lab is located in the commons building. This area is recommended for students taking classes at the College of Technical Careers Carterville campus or SIUC Airport, because the bus service departs from this location.

Thompson Point

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

Dining Service

In all areas except married student housing and Greek Row, nineteen meals are provided each week: three each day on Monday through Friday, with brunch/lunch and dinner on Saturday and Sunday. Unlimited second helpings are offered. Other food plans are available after residence begins. A full-time dietitian is available to assist students with special dietary needs.

Room Types

Students filling out the University Housing Application may request any of these options:

- roommate selection, if students know in advance with whom they would like to share a room and if the request is mutual and for the same residential area (request should be made by April 1);
- study fioors where extended quiet hours are in effect;
- non-smoking roommate;
- a special fioor in Smith Hall at Thompson Point for students in the University Honors program;
- rooms for students with mobility impairment on the ground fioor of Thompson Point residence halls;
- over-21 housing in Allen I, II, and III in University Park or Warren Hall in Thompson Point;
- a limited number of single rooms in University Park;
- housing that stays open during all University holidays and breaks, at a modest additional cost;
- a special fioor in Neely Hall at University Park reserved for transfer students.

Furnishings

Each room houses two students—who share a connecting bath with the adjoining room—two chests of drawers, two desks, two study chairs, and draperies. The University Park Triads have several showers and restrooms centrally located on each fioor for easy access by residents. Local telephone service is provided; however, students must provide their own telephone instrument and long-distance calling card. University Housing operates its own cable television system. Each student room is provided with two cable outlets.

Roommates

New students, both freshman and transfer, may request a roommate of their choice before arriving, if 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.

Cost of On-Campus, Single-Student Housing

The 1995–96 cost of a double room in any on-campus residence hall is $3352 per academic year.

There is an additional $17/year housing activity fee.

Inquiries concerning on-campus housing should be directed to University Housing, Supervisor of Contracts, Washington Square D, SIUC, Carbondale, IL 62901–6716; 618 453-2301, exts. 39, 23. Students can obtain current information about housing costs by calling UniLink at 618 453-SIUC.

Applying for On-Campus Housing

An application for University housing for single students is included with the application for admission. Admitted students for whom there is no housing application on file should contact the University Housing office for an application form.

Applications are processed in the order in which University Housing receives the completed housing application. Students are not eligible to receive housing contracts until they are officially admitted. Early application (even during the junior year of high school) is encouraged.

Term of Contract

University Housing contracts are written for the fall and spring semesters and remain in effect for these two semesters. Summer contracts are issued separately. Students who desire housing during both the summer and the fall should submit two separate housing applications. Cancellation of contracts must be made in writing to the Supervisor of Contracts, Washington Square D, SIUC, Carbondale IL 62901-6716.

University Housing for Married Students

Southern Hills

The Southern Hills residential area, on the southeast edge of the SIUC campus, contains efficiency, one-bedroom, and two-bedroom furnished apartments (no carpeting) for married students, single parents, and graduate students.

Evergreen Terrace

The Evergreen Terrace residential area, on the southwest edge of the SIUC campus, contains two- and three-bedroom unfurnished apartments (no carpeting) for married students and single parents.

Cost of Married Student Housing for 1995-96

Efficiency apartments	$301/month, all utilities included
Furnished one-bedroom	$326/month, all utilities included
Furnished two-bedroom (Carpeting not provided; there are no furnishings in the second bedroom.)	$349/month, all utilities included
Unfurnished two-bedroom	$288/month, resident pays electricity
Unfurnished three-bedroom (Draperies and carpeting are not provided; kitchens have range and refrigerator provided.)	$311/month, resident pays electricity

Interested students should contact Family Housing, Washington Square D, Mailcode 6716, SIUC, Carbondale IL 62901-6716; 618 453-2301, ext. 38.

Privately Owned Facilities (Off-Campus Housing)

Carbondale offers many types of rental units for single and married students who are not required to live on-campus or in an accepted living center. Listings are available that include apartments, residence halls, and mobile homes. Most privately owned facilities are within walking distance of the campus. For more information about privately owned housing and sophomore-qualified facilities, please write or call: University Housing, Off-Campus Housing, Washington Square D, SIUC, Carbondale, IL 62901-6716, 618 453-2301, ext. 44 or 55.

Sorority and Fraternity Houses

An area on campus known as Greek Row 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. Facilities on Greek Row are approved for freshmen and sophomores. There are also fraternity and sorority houses off campus; however, students should contact Off-Campus Housing to find out if the facility is approved for sophomores.

Costs

TUITION AND FEES

Tuition and fees are established by the Board of Trustees and are subject to change whenever conditions necessitate. Costs are subject to change.

1995–96 On-Campus Undergraduate Fee Schedules

Semester Hours Enrolled	Illinois Residents Tuition	Student Fees	Total	Non-Illinois Residents Tuition	Student Fees	Total
1	$ 80.00	241.64	321.64	240.00	241.64	481.64
2	160.00	262.28	422.28	480.00	262.28	742.28
3	240.00	282.92	522.92	720.00	282.92	1002.92
4	320.00	303.56	623.56	960.00	303.56	1263.56
5	400.00	324.20	724.20	1200.00	324.20	1524.20
6	480.00	344.84	824.84	1440.00	344.84	1784.84
7	560.00	365.48	925.48	1680.00	365.48	2045.48
8	640.00	386.12	1026.12	1920.00	386.12	2306.12
9	720.00	406.76	1126.76	2160.00	406.76	2566.76
10	800.00	427.40	1227.40	2400.00	427.40	2827.40
11	880.00	438.04	1328.04	2640.00	438.04	3088.04
12	960.00	468.90	1428.90	2880.00	468.90	3348.90
13	1040.00	468.90	1508.90	3120.00	468.90	3588.90
14	1120.00	468.90	1588.90	3360.00	468.90	3828.90
15+	1200.00	468.90	1668.90	3600.00	468.90	4068.90

All students will pay the full Student Medical Benefit Fee of $212.00, which will entitle them to full medical benefits at Health Service. An on-campus student may seek a refund for the portion of the fee that provides coverage overlapping the student's existing health insurance coverage. To arrange for such a refund, the student must contact the Student Health Programs Insurance Department within the first three weeks of each semester.

The on-campus undergraduate student fee also includes allocations to the Student Recreation Fee, Athletic Fund Fee, Student Center Fee, Student Activity Fee, Student-to-Student Grant, Bond Retirement Fee, and Campus Recreation Fee.

The Student-to-Student Grant program fee is voluntary. Students may receive a full refund for this fee by contacting Admissions and Records within ten days following initial tuition and fee payment.

PAYMENT PROCEDURES

Tuition and fees are payable in four installments each semester. A student who advance registers receives a statement of account and may pay, by the deadline date specified on the statement, either by mail or in person at the Bursar's office. Students who have not registered for classes before the first statement of account is mailed must make a tuition and fee prepayment before they can be advised and registered.

Registration of students who are registered for classes but have not paid their tuition and fees by the specified deadline will be canceled. Students may pay tuition and fees on an installment basis.

A student holding a valid scholarship is exempt from tuition and fees to the extent prescribed by the scholarship. For example, an Illinois State Scholarship may cover part or all of tuition and fees.

TOTAL UNIVERSITY CHARGES INCLUDING ON-CAMPUS HOUSING

The budget shown below is an estimate, for the 1995–96 academic year, for a full-time student enrolled in 15 credit hours per semester and living on campus.

Estimated Costs*	Illinois Residents		Out-of-State Residents	
	Semester	Year	Semester	Year
Tuition	$1200.00	$2400.00	$3600.00	$7200.00
Fees	468.90	937.80	468.90	937.80
Room & Board	1676.00	3352.00	1676.00	3352.00
Campus Housing Activity Fee	8.50	17.00	8.50	17.00

* All costs are subject to change.

TEXTBOOKS

The cost of textbooks and school supplies is not included in the tuition and fee figures stated above. The average cost of books and supplies for the 1995–96 academic year is estimated at $600.

MISCELLANEOUS EXPENSES

Out-of-pocket expenses for an undergraduate living on campus, such as transportation to and from home, entertainment, and personal items, are estimated at $2513.20 for the academic year.

Financial Aid

Financial Aid assists students seeking monetary assistance for post-secondary education at Southern Illinois University at Carbondale. Last year SIUC distributed over $115 million in financial aid to more than 20,854 SIUC students.

A financial aid "package" is prepared for qualified students. It may include scholarships, grants, student employment, and loans. The contents of the package are contingent on both the availability of program funds and demonstrated financial need, which is determined from information on the student's financial aid application.

Grants and scholarships are gift aid which is not repaid. Loans must be repaid, at differing interest rates and repayment schedules based on the loan program. Student employment is offered to all students who want to earn money while attending SIUC.

Major Financial Aid Programs

SIUC participates in federal, state, and institutionally funded programs, which include the Federal Pell Grant, Illinois Student Assistance Commission (ISAC) Monetary Award, Federal Direct Stafford/Ford Loan, Federal Direct Unsubsidized Stafford/Ford Loan, Federal Perkins Loan, Student-to-Student Grant, Federal Supplemental Educational Opportunity Grant, and the Student Employment Program.

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

GRANTS

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

SCHOLARSHIPS

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

Recipients of academic scholarships are selected annually by the academic units of the University. A limited number of private scholarships are also available. More information is available from the scholarship coordinator in each academic unit.

Students interested in seeking private grants or scholarships 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

Loans are borrowed money that must be repaid with interest. The largest educational loan programs include the Federal Direct Stafford/Ford Loan, the Federal Parent Loan for Undergraduate Students, and the Federal Perkins Loan. To apply for the Federal Direct Parent Loan for Undergraduate Students, parents must complete and return a separate form provided by the Financial Aid office. To be considered for any of the other loans, students should complete a financial aid application. The eligibility requirements, interest rates, and repayment periods vary for these loans.

STUDENT EMPLOYMENT

SIUC has one of the largest on-campus student employment programs in the country. Students can work up to 20 hours a week at the prevailing minimum wage. When students arrive on campus, they should review the "Job Listings Board" in the Financial Aid office to determine which jobs interest them. Referrals will be given to students to interview with prospective on-campus employers. At the beginning of each fall semester a Student Employment Job Fair is conducted to assist students in the job search. In addition, a representative is available to give referrals for part-time off-campus jobs. More than 6000 student workers were employed by the University last year.

Applying for Financial Aid

To apply for the financial aid programs coordinated through the Financial Aid office for the 1996–97 academic year, students—and their parents, if applicable—should complete and mail a *1996–97 Free Application for Federal Student Aid* (FAFSA), available in schools beginning in December 1995. Since funding is limited, and is distributed to eligible students on a first-come, first-served basis, students should complete the financial aid application process as early as possible. Priority consideration will be given to those students who complete and mail their *1996–97 Free Application for Federal Student Aid* before April 1, 1996.

A financial aid application should be completed each year listing Southern Illinois University at Carbondale (Title IV Code 001758) as a school choice.

TRANSFER STUDENTS

Students who have attended another college or university will be classified as transfer students. Transfer students applying for financial aid must have a financial aid transcript sent to SIUC Financial Aid from each college or university attended, describing all financial aid received. Even though students may not have received financial aid before attending SIUC, federal mandates require SIUC to have that verification. No aid can be awarded until all financial aid transcripts are on file at SIUC. The forms may be obtained from SIUC Financial Aid.

Students planning to transfer to SIUC for the spring semester should list SIUC as a school choice (Title IV code 001758) on their Student Aid Report (SAR) and return it to the financial aid processor. When you receive your corrected SAR, keep it for your records. SIUC will receive the corrected information electronically from the Department of Education.

NOTIFICATION OF FINANCIAL AID ELIGIBILITY

After information from the 1996–97 FAFSA is processed, students will be notified of their eligibility to receive the Federal Pell Grant, Illinois Student Assistance Commission (ISAC) Monetary Award, SIUC Campus-Based Aid, Federal Work-Study, and Student Loans.

Students will receive a Student Aid Report (SAR) notifying them of their eligibility status for a Federal Pell Grant. The ISAC Monetary Award Program will send students a letter notifying them of their rights and responsibilities concerning the ISAC Monetary Award. Students should retain the letter in their files.

Financial Aid will send a financial aid award notice to students notifying them of their rights and responsibilities concerning campus-based aid and/or student loans. Students must sign and return the award offer to SIUC Financial Aid by the date indicated.

Academic Progress Standards for Financial Aid

Southern Illinois University at Carbondale requires that a student receiving financial aid make satisfactory progress toward a degree. "Satisfactory Progress" means completing a required number of credit hours per terms of attendance and maintaining a grade-point average that allows for continued enrollment at the University under current academic guidelines. A copy of the *Satisfactory Progress Policy* is available on request from SIUC Financial Aid.

Students and counselors desiring additional information should write to Financial Aid, Woody Hall B, Mailcode 4702, SIUC, Carbondale, IL 62901-4702, call UniLink at 618 453-SIUC to receive individual financial aid information via voice response, or call 618 453-4334.

PLEASE NOTE: At the time this catalog was printed, final rules and regulations for the 1996–97 academic school year were pending. Any changes in federal, state, or institutional regulations may affect the information reported. Students are therefore encouraged to contact SIUC Financial Aid at a later date for current information.

University Career Services

Lifelong career counseling/placement services are available to all SIUC students and alumni. University Career Services provides individuals with the opportunity to explore occupations and vocational interests, examine individual values and abilities, and access assistance in making career decisions. An array of career inventories can aid in the career development/exploration process. Career services are provided by professional psychologists and counselors at no charge.

Career assistance is provided on both individual and group bases. Workshops, seminars, and programs are provided to interested groups. The services also maintain specially designed computer programs such as DISCOVER and the Career Resource Library, which has information on approximately 25,000 occupations. University Career Services also provides assistance to students preparing for entry into the working world. Staff members are available to assist students and alumni with all aspects of the job search: planning, résumé writing, interviewing techniques, letters of application, general information about career opportunities, and specific facts about positions taken by recent SIUC graduates. UCS is contacted annually by over 1500 representatives of businesses, government agencies, schools, and service organizations. Some companies actively recruit on campus, while others list openings on a 24-hour UCS job hotline.

UCS maintains a regional center offering undergraduate and graduate admission, technical, professional, and certification examinations. Tests such as the ACT, SAT, GRE, LSAT, MCAT, Miller Analogies Tests, etc., are offered on a regular basis. Local placement and academic proficiency tests and National CLEP examinations are also available. These programs insure proper class placement of entering students and provide academically talented students with the opportunity to receive college-level credit for material already mastered.

In addition, general educational development tests for area adults who have not completed high school, as well as licensers and competency programs required by the state of Illinois and professional associations, are offered. Registration forms and information brochures, many containing sample tests, are available at University Career Services. For more information, call 618 453-2391.

Counseling Center

The Counseling Center provides services to students who want to resolve various personal, developmental, or emotional problems. It is staffed with professional psychologists and counselors qualified to help with such concerns as relationship adjustment difficulties, family confiict, anger management, social skills development, sex role–awareness development, assertiveness training, unusual eating behaviors, drug and alcohol abuse, sexual abuse therapy, and other problems. The Counseling Center provides individual, couple, and group counseling, as well as crisis intervention, within an atmosphere of confidentiality and trust. For more information or to set up an initial (intake) appointment, call 453-5371, or stop by A-302 Woody Hall.

Women's Services

Women's Services, a component of the Counseling Center, provides counseling and resources to women at SIUC. The staff provides assistance, information, support, and referral to other University and community programs and services, helping women obtain the maximum benefits from their university education. For more information, call 618 453-3655.

The services fall into six categories:

1. providing a resource and referral information clearinghouse;
2. developing and implementing outreach programming—workshops, seminars, groups, lectures—on topics relevant to women;
3. consulting with other services working with women in the University and community;
4. supporting women students by advocacy and individual counseling;
5. coordinating the Campus Safety Program, which includes Women's Safety Transit and women's self-defense classes;
6. providing library services that make available to men and women many books and articles on women's issues not found elsewhere on campus; and
7. providing support and psychoeducational groups.

Non-Traditional Student Services

Non-Traditional Student Services assists students who are 24 or older, married, have dependents, are enrolled part-time, are veterans, commute to campus, or have been away from formal education for some time. Increasing the awareness and response within the University community to the needs and circumstances common to non-traditional students is a primary concern of this office. The staff provides assistance, information, support, and referral to other University and community programs and ser

vices, helping non-traditional students obtain the maximum benefits from their university education. For more information, call 618 536-2338.

Disability Support Services

Disability Support Services provides and coordinates support services to students with disabilities, including those who are non-ambulatory, semi-ambulatory, visually impaired, hearing impaired, or learning disabled. A wide range of services is offered by SIUC—academic support services, handicapped van transportation, other transportation and parking arrangements, modified housing, adapted recreational activities, wheelchair repair, and personal attendant referrals.

Academic support services include test proctoring services for students needing additional time or reading or writing assistance to complete regular course exams; pre-admission planning for support services; reader and tutor referral; taped textbooks; equipment loans; route and campus familiarization for the visually impaired; note-taker referral; and interpreters. The Illinois Department of Rehabilitation Services (IDORS) maintains an on-campus office, and the DSS office works closely with IDORS to facilitate admission and enrollment of students sponsored by IDORS. The SIUC campus is accessible, and all programs, services, and activities are available to people with disabilities.

Individuals with disabilities apply for admission in the same manner as other applicants. The nature or severity of the disability has no bearing on the admission determination. Interested persons are strongly encouraged to apply for admission as far in advance of the semester starting date as possible, so that all necessary support services, financial assistance, special equipment, and housing arrangements may be provided in a timely manner. Call 618 453-5738 (voice or TDD) for more information about Disability Support Services.

Clinical Center Achieve Program

The Clinical Center Achieve Program is an academic support program for students with learning disabilities who are enrolled at SIUC. The program is self-supportive and participation is voluntary and confidential.

Students in the Achieve Program are included in the regular college curricula and campus life. The academic support provided by the Achieve Program is threefold—tutorial, compensatory, and remedial.

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

Those wishing to participate in the Achieve Program must apply to the University as well as to the Achieve Program. Students should make application early (sophomore-junior year in high school) to assure a place in the program. However, applications from high school seniors and transfer students are always processed and considered if space is available.

Requests for information/applications should be addressed to: Clinical Center Achieve Program, Mailcode 6832, Northwest Annex Wing D, SIUC, Carbondale, IL 62901-6832. Requests can also be made by calling 618 453-2595.

The following fees are based on the 1994–95 academic year and are subject to change.

Application fee:	$ 50.00 (one time fee/non-refundable)
Diagnostic fee:	$1000.00 (one time fee/non-refundable)
	$1050.00
*Fees for academic support:	$1850.00 (1994 fall semester)
	$1850.00 (1995 spring semester)
	$3700.00

* Half-time support is available following the first year of participation if students are in good academic standing. Half-time support includes all services, although members must choose either note-takers or tutors. Fees for half-time support are half the amount of full-time membership.

Support fees are refundable any time before the beginning of the semester. Full or partial fee waivers may be available to students who qualify. Application for a fee waiver is made the summer before either entry into or continuation with the University and the program.

Center for English as a Second Language

The Center for English as a Second Language (CESL) offers English language training to non-native speakers of the language. The program runs year-around and is a part of the Department of Linguistics, an academic unit of the College of Liberal Arts. The students studying at the center plan, in most cases, to enter academic programs at the graduate or undergraduate level on completion of their training. The attendance of over a hundred students every term from a wide variety of cultures adds a significant international presence to the campus.

Opportunities are provided for American and CESL students to meet as a means of enriching their stay at SIUC and improving their foreign language skills. For information about CESL, call 618 453-2265, FAX 618 453-6527.

Student Orientation Programs

Student Development provides a comprehensive orientation program for new students and their parents through the Student Orientation Programs, which are designed to assist students in making a smooth transition into the University community and to introduce new students and their parents to the University's resources, programs, and services.

Orientation sessions are offered before the beginning of each semester and on new student guest days. Specially trained upperclassmen, known as Student Life Advisers (SLAs), serve as orientation peer advisers to help new students learn about the campus and its services. The Student Orientation Committee is always available to assist students.

SIUC Parents Association

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

First Year Experience Programs

IT'S MAGIC

Project MAGIC (Maximize Academic Growth in College), one of three First Year Experience programs, is a general advisement program for new students that helps them derive the greatest possible benefit from the people, programs, and facilities at the University. Interested new students are encouraged to develop a friendly and helpful relationship with a member of the University faculty or staff—a mentor—who can assist in the process of developing career and academic goals, in learning how to get the most from the educational opportunities available at the University, and in adjusting to college life.

PROJECT STEP (SUCCESS THROUGH EXPERIENCED PEERS)

Project STEP, another of three First Year Experience programs, is a peer mentoring program for new students. Interested new students are encouraged to develop friendly and informal mentoring relationships with trained volunteer peer mentors, experienced SIUC students who will help them adjust to college life, develop academic and career goals, and learn about involvement and leadership opportunities at the University.

PROJECT AHEAD (A HUMANISTIC EDUCATIONAL APPROACH TO DEVELOPMENT)

Project AHEAD is another of the three First Year Experience programs. In cooperation with the College of Liberal Arts, AHEAD offers an academic course specifically designed to help students in their first year at the University achieve success. The course uses an experiential mode of learning activities and group discussions pertaining to the first-year experience, focusing on factors and issues associated with successful adjustment and academic achievement. Students gain valuable tips on study skills, communication skills, reading skills, time-management techniques, and testing skills

REGISTRATION OF VEHICLES

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.

PARKING POLICIES

Parking facilities on the campus of SIUC are located on the outskirts of the main campus. Students who are of junior or senior status or are over age 21 may purchase a parking permit from SIUC Parking Division.

On-campus residence halls are located within ten minutes' walking distance of most classes. The majority of students who live on campus prefer to walk to their classes or ride bicycles. Bicycle racks are situated near all campus buildings.

The University provides shuttle service to and from campus and the residence halls for students in the aviation program or in programs on the Carterville campus.

Students who are married, who have a disability, or who commute daily from their parents' homes—regardless of age or class status—also may purchase a parking permit. To determine eligibility, write to Parking Division, Mailcode 6723, SIUC, Carbondale, IL 62901-6723. Or call 618 453-5369.

If you are ineligible for a parking permit but would like to bring your car to school, you may want to consider an off-campus rental parking lot. Two off-campus lots are close to campus and within walking distance of residence halls. For more information about these off-campus parking facilities, contact:

City of Carbondale
609 E. College
Carbondale, IL 62901-3308
618 549-5302

or

The Newman Center
715 S. Washington
Carbondale, IL 62901-3741
618 529-3311

In addition to these parking options, most off-campus, privately owned rental housing units provide parking space for their residents.

PARKING APPLICATION AND FEE

Each applicant must bring to the Parking Division the following four items: a valid operator's license; a vehicle registration card or notarized license-applied-for receipt; proof of liability insurance; and a current University identification card. Dealer license plates are not acceptable for motor vehicle registration.

The parking fee is determined by the type of decal, which indicates by color the nature of parking privileges permitted the holder. Decals are valid until midnight August 31 or until revocation or loss of eligibility.

For additional information or a parking brochure, contact:

Parking Division
Washington Square B
Southern Illinois University at Carbondale
Mailcode 6723
Carbondale, IL 62901–6723
Telephone: 618 453-5369
7:30–4:30 Monday–Friday

Day-Care Services

University-affiliated services include:

CHILD DEVELOPMENT LABORATORIES

116 Quigley Hall, SIUC, 618 536-2441
Services offered: High-quality, supervised day care by students majoring in Child and Family Development. Hours: 7:45–5:15, Monday–Friday.

CHILD STUDY CO-OP

Department of Psychology, SIUC
Services offered: Child-care service open to the public. Hours: 8:45–11:10, 12:45–3:10, Monday–Friday.

RAINBOW'S END

320 E. Stoker, SIUC, Carbondale, 618 453-6358
Services offered: A safe, supportive, and stimulating environment that meets the individual needs of children and their families. Hours: 7:30–5:30, Monday–Friday and 5:45–9:45, Monday–Thursday.

HEADSTART

Murdale Baptist Church, Carbondale, 618 529-5800
RR 2, Herrin, Ill., 618 997-2216
Services offered for pre-school children and their families: stimulating environment, nutritious meals, and transportation. Free to eligible participants. Hours: 8–11:30 and 12:30–4, Tuesday–Friday.

Registered Student Organizations

Over 450 registered student organizations offer opportunities for student involvement, student leadership and development, and experiential learning. A core of more than 400 volunteer faculty/staff advisers, along with the Student Development professional staff, provide direction and consultation with student organizations in the areas of fiscal management, organizational management, and University policies and procedures.

Student Development also provides a variety of services designed especially for the organizations: membership referrals, organization directories, leadership development workshops, equipment checkout services, copy/duplicating service, mailbox service, and programming resource library. Included among the organizations are student government 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.

Inter-Greek Council

The Inter-Greek Council (IGC) is the activity-coordinating council for the University's seventeen social fraternities and ten social sororities. Sub-councils include the Inter-Fraternity, Pan-Hellenic, and Panhellenic Councils. 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.

Minority Programming Initiative

Multicultural Programs and Services offers a variety of programs and activities for the academic and personal growth and development of SIUC minority students. Objectives are to orient minority students to the culture of the University, to provide training in leadership and other personal and social skills, and to offer appropriate mentors and role models. Additional activities and programs are coordinated by the United Asian American, Black Affairs, and Hispanic Student Councils.

The UAAC, BAC, and HSC serve as coordinating and governmental bodies for Asian, African-American, and Hispanic student organizations on campus, and program social, cultural, and educational programs. Specific programs include historical commemorations and celebrations, awards programs, and special-interest orientation sessions. For more information, contact Multicultural Programs and Services in the Student Development complex on the third fioor of the Student Center.

Leadership Education and Development

Student Development sponsors LEAD, a leadership development series that offers activities and experiences to enhance students' leadership skills and encourage them to be involved on the campus. Workshops and special topic seminars are offered in such areas as group process, organizational and fiscal management, leadership techniques, and communication skills, One unusual program, EMERGING LEADERS, helps minority students develop as scholars and citizens through active participation in campus affairs.

Student Publications

Special opportunities are available to students interested in media and publications. Students serve as editors, photographers, artists, and writers for several Student Affairs periodicals: the *Monolith*, a new student record book; *Our Voice,* a publication of the Black Affairs Council that features news and events for black students; *Insight,* an award-winning newsletter for members of the SIUC Parents Association; *Visor Vision,* a newsletter for Student Life Advisers; *Columns,* a newsletter for fraternity and sorority members; *Southern Portrait,* a monthly newsletter for student leaders and members of registered student organizations; and *Rainbow Connection,* a weekly newsletter for parents of children enrolled at Rainbow's End child development center.

Credit for Involvement

In cooperation with various academic units, Student Development enables students to receive academic credit for participating in student activities and organizations. Students may participate in leadership development courses for fraternity and sorority members, community service-learning programs for the Saluki Volunteer Corps, leadership development seminars for Student Life Advisers, and undergraduate and graduate internships in such areas as student development, early childhood education, and media and publications.

Touch of Nature Environmental Center

Southern Illinois University at Carbondale is home to an extraordinary center for outdoor, environmental, and experiential learning. Known as Touch of Nature Environmental Center, it sits eight miles southeast of the main campus in the rolling hills of Southern Illinois. Its 3100 acres are bordered by a 700-acre lake, Giant City State Park, and the Crab Orchard National Wildlife Refuge, as well as the Shawnee National Forest. It is one of three major centers of its type in the United States and is highly respected throughout North America for innovative programs that emphasize both natural and human resources. SIUC was one of the first universities in the United States to use nature and the out-of-doors as extensions of the classroom.

Touch of Nature offers a wide variety of credit and non-credit educational and service opportunities for individual students. Education and recreation for the people of Illinois and the nation is provided through a balance of public service, institutional support, service to students, instruction, and research. The center serves as a field site for the departments of plant biology, forestry, recreation, special education, rehabilitation, zoology, food and nutrition, administration of justice, and curriculum and instruction, among others. Internship and practicum opportunities for academic credit are available for undergraduate and graduate students. Paid practical work positions are also available.

Intercollegiate Athletics

Southern Illinois University at Carbondale continues to pride itself on maintaining one of the country's top sports programs for women and men. The Salukis compete in Division I of the National Collegiate Athletics Association (NCAA) in all but one sport: in football SIUC holds Division I-AA status.

Although SIUC is well know for its broad-based program, and particularly for sports such as baseball, track and field, and swimming, the basketball and football programs have also established strong traditions. In 1983, the Salukis claimed the NCAA Division I-AA national football championship and in 1967 won the National Invitation Tournament (NIT) in basketball.

Many former Salukis have distinguished themselves in professional sports, including NBA Hall of Famer Walt Frazier, who led SIUC to its NIT title in '67, and Jim Hart, one of the top quarterbacks in NFL history, who is beginning his eighth year as SIUC's athletic director. Other pro stars have been Dave Stieb, former Toronto Blue Jays' pitching ace and a two-time All Star, and current baseball stars Steve Finley (San Diego Padres) and Sean Begman (Detroit Tigers). World-class 400-meter champion Michael Franks and national gymnastics champion Brian Babcock have also made their mark. On the women's side, world-class discus and shot put champion Connie Price, two-time Olympic cyclist Sally Zack, and former LPGA president Dorothy Germain have gained acclaim.

SIUC was well represented at the '92 Olympics with two coaches and six athletes participating in Barcelona.

ACADEMIC EXCELLENCE AMONG SIUC ATHLETES

Paralleling SIUC's success on the playing fields has been an outstanding academic record on the part of student athletes. Forty-one percent of the University's 347 varsity sport participants earned term or cumulative grade-point averages of 3.0 or above (4.0 scale) in the fall of 1994. Some 79 student athletes made the MVC honor roll; another 20 received the MVC Commissioner's Academic Excellence Award last fall. Since 1983, 24 women athletes have been cited as GTE Academic All Americans as selected by the College Sports Information Directors of America (CoSIDA).

BASEBALL

Last season, Tim Kratochvil (Mt. Olive, Ill.) became the first catcher in school history to win two First Team All-MVC awards; he hit .354 and led SIUC with 49 RBIs. Second baseman Braden Gibbs (Carbondale, Ill.), another All-MVC honoree, hit .318 and paced the Salukis in runs scored. First-year coach Dan Callahan seeks to return the Salukis to past glory. SIUC's baseball teams have been to the College World Series on five occasions, twice finishing second, and have qualified for NCAA Regionals 14 times. SIUC has won the Missouri Valley Conference championships 6 times and has had 21 players advance to the major leagues.

BASKETBALL

Women: SIUC has posted 14 consecutive winning seasons and should get its 500th all-time win on the hardwood this year. Coach Cindy Scott ranks among the nation's winningest coaches, with a 346-173 record (.667 win pct.) in 18 seasons with the Salukis. Scott, a past president of the Women's Basketball Coaches Association, has guided Southern to three conference titles and four NCAA tournament appearances since 1986. During '95, junior Nikki Gilmore was named First Team All-MVC. Sophomore Kasia McClendon (Gary, Ind.), who finished ninth nationally in steals, was named the MVC's Defensive Player of the Year, while Cari Hassell (Nashville, Tenn.) was selected as the league's top freshman and newcomer.

Men: Last season, SIUC became the first MVC school in history to "three-peat" as Valley tournament champions, while making a third straight appearance in the NCAA. Chris Carr, who won the league scoring title with a 22.0 average, was the MVC Player of the Year and Valley tournament MVP. Marcus Timmons and Paul Lusk also sparkled in post-season play as Rich Herrin became the second win-

ningest men's coach in SIUC basketball history. This season will mark Herrin's 40th year on the bench; last season he secured his 800th career win at Creighton. The Salukis finished with a 23–9 record and advanced to a post-season tourney for the seventh straight season. Only 14 other schools in the nation can make the latter claim.

CROSS COUNTRY AND TRACK

Men: This traditionally strong track and field program has captured 26 of 37 Missouri Valley Conference championships since SIUC joined the league in 1976. In addition, cross-country teams have won eight league titles and placed second eight times in the last 18 years. The Salukis have had almost 100 All Americans in track and field since Lew Hartzog's arrival in 1960 and during the tenure of his successor, Bill Cornell, who took over in the early '80s. There have been eight All Americans in cross country.

Women: In cross country, senior Jennie Horner (Armington, Ill.) became the first SIUC harrier since 1987 to win a conference championship and qualify for Nationals. Horner, the 1995 SIUC Female Athlete of the Year, took first in five of nine competitions during the fall, clocked the second fastest time in school history, and placed third of 117 in the NCAA District 5 meet. In the MVC Indoor Track Championship, Horner successfully defended her title in the mile, clocking school and conference marks to qualify for Nationals; Horner also took first in the 1000-meter run to be named the meet MVP. Senior Latonya Morrison (Woodridge, Ill.) was a conference champion in three events. In outdoor track, Jenny Horner and LaTonya Morrison made the final cut to compete in the 1995 NCAA Outdoor Track and Field Championship.

FOOTBALL

Under new coach Shawn Watson, the Salukis hope to revive their fortunes in the Gateway Conference, which is one of the most highly respected leagues in the nation in NCAA division I-AA. At age 35, Watson is one of the nation's youngest head coaches; he is the 17th football head in school history. During '95, his first full recruiting class will be featured.

GOLF

Men: Under third-year coach Gene Shaneyfeld, SIUC finished sixth in the Missouri Valley Conference Tournament. Individually, senior Steve Irish (Glendale, Ariz.) placed 14th overall with 78–76—154.

Women: Last spring, the Salukis were runners-up in the MVC tourney for the third consecutive year, and senior Lieschen Eller (Centralia, Ill.) repeated as an All-Conference pick. Southern has now been first or second in nine of 13 league championships since 1983.

SOFTBALL

SIUC has averaged more than 32 wins the last six seasons. In '95, Dawn Daenzer (Belleville, Ill.) was the MVC Rookie of the Year and led the league in hitting with a .432 mark. Junior center fielder Christine Knotts (Edwards, Ill.), a GTE Academic All American with a 3.94 GPA in mechanical engineering, led the Valley in triples and ranked No. 9 nationally. Veteran coach Kay Brechtelsbauer, who was selected for the Saluki Sports Hall of Fame last fall, is now only four shy of career win No. 500.

SWIMMING AND DIVING

Men: SIUC's swimming and diving program has been one of the most successful of any, as the Salukis have placed in the top 20 teams at NCAA championship meets 26 of the last 36 years and in the top 25 on five other occasions. During the program's proud history, 103 team members have earned All-American status. Salukis swimmers have been under the guidance of Rick Walker the last three seasons, while Dave Ardrey coaches the divers. Senior Rob Siracusano (Long Island, N.Y.), an All American in three-meter diving, was the '95 SIUC Male Athlete of the Year.

Women: This past year the Salukis won their first-ever MVC Women's Swimming and Diving Championship, taking first in 19 of 20 events. Freshman Anne Underwood (Kingwood, Tex.) and junior Melanie Davis (Virginia Beach, Va.) were involved in 11 of those wins. SIUC's proud past in the sport includes four top 10 finishes since 1983 and 46 All Americans. Since fall 1989, 9 swimming and diving greats have been inducted into SIUC's Hall of Fame.

TENNIS

Women: Coach Judy Auld, the 11th winningest active tennis coach in the nation and a Saluki Sports Hall of Famer, garnered her 300th career win last spring. For 1994–95, Auld's netters had a 14–7 dual record with four players notching 25 or more singles wins. Freshman Sanem Berksoy had a 32–11 record; sophomore Liz Gardner was the MVC's No. 2 singles champion and finished 27–13 overall. Last fall, team members combined for a 3.18 grade-point average.

Men: Jeremy Rowan's SIUC tennis squad finished fifth in the MVC during his second season as coach. Junior Bojan Vuckovic, playing No. 3 singles, had a team-best 13–7 record.

VOLLEYBALL

Last fall SIUC set school records with 13 conference wins and nine consecutive victories at home. An 18–12 worksheet included a fourth straight Saluki Invitational title. Senior Deb Heyne (Rochester, Maine) was voted First Team All-MVC, Academic All-Conference, and GTE Academic All-District for the second year in a row. In the classroom, team members combined for a 3.13 GPA.

MEN'S AND WOMEN'S COACHES

Athletic scholarships are awarded in all sports. Applicants interested in obtaining more information about these scholarships are encouraged to contact the coach of the particular sport.

Telephone..... 618 453-5311
Location.....SIUC Arena

Men's Coaches

Baseball..... Dan Callahan
Basketball..... Rich Herrin
Cross Country.....Bill Cornell
Diving..... Dave Ardrey
Football..... Shawn Watson
Golf..... Gene Shaneyfelt
Swimming..... Rick Walker
Tennis ..... Open (TBA)
Track and Field.....Bill Cornell

Women's Coaches

Basketball.....Cindy Scott
Cross Country..... Don DeNoon
Diving..... Dave Ardrey
Golf..... Diane Daugherty
Softball.....Kay Brechtelsbauer
Swimming..... Mark Kluemper
Tennis .....Judy Auld
Track and Field..... Don DeNoon
Volleyball..... Sonya Locke

Intramural-Recreational Sports

Intramural-Recreational Sports offers students, faculty, staff, alumni, and their families a wide variety of interesting and enjoyable recreational activities. The 214,000-square-foot Student Recreation Center houses an Olympic-size swimming pool, two indoor tracks, seven activity areas for basketball, volleyball, badminton, and aerobics, one indoor recreational tennis court, two weight rooms, a sports medicine office, two squash courts, fourteen racquetball/handball courts, and an indoor rock-climbing practice wall. Campus Lake recreational facilities include a sandy beach with a changing area and a sunning raft, a jogging path, and a boat dock. More than twenty tennis courts are located at five convenient locations across campus.

Intramural-Recreational Sports also provides structured programs, including aerobic classes for every skill level and over 40 intramural competitive sport activities. Instruction is available in a wide variety of activities, including yoga, massage, weight training, martial arts, golf, tennis, volleyball, belly dancing, and swimming. Youth Programs offer instruction for children, including martial arts, roller hockey, tennis, basketball, and the climbing wall.

The Adventure Resource Center provides outdoor recreational information and sponsors informative clinics on topics such as fishing, hunting, rock climbing, and nature photography. Camping and canoeing equipment can be rented from Base Camp for a minimal daily fee. For more information about intramural-recreational sports, call 618 536-5531.

Academic Opportunities and Recognition

Recognition of High Scholastic Achievement

Deans' lists recognize academic excellence during a particular semester—they do not take into consideration a student's complete record. Criteria for deans' lists are established by the individual academic units. To be recognized, a student must have been in attendance full time (12 or more semester hours) and must have earned the grade-point average specified by the academic unit. If a student has met the criteria, a notation will appear on the grade slip and on the transcript at the end of the semester.

THE UNIVERSITY HONORS PROGRAM

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

DEPARTMENT HONORS

Honors courses, individual honors work, and honors curricula—all designed to serve the student with high scholastic potential—are offered by departments in the College of Agriculture, the College of Liberal Arts, and the College of Science. A departmental or academic unit honors program comprises no fewer than 6 nor more than 14 semester hours in research or independent study and 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 senior year. Grades may be deferred at the end of the first semester, but do not carry from one school year to the next. Successful completion of an honors program is noted on the academic record when the degree is recorded and on the diploma: for example, *Departmental Honors in Economics.*

The following departments have departmental honors programs (in some cases the program consists of a single course): anthropology, chemistry and biochemistry, economics, English, foreign languages and literatures (classics only), forestry, geography, history, philosophy, physiology, plant and soil science, plant biology, political science, psychology, sociology, and zoology.

HONORS DAY

Every spring an Honors Day convocation recognizes students for high scholastic achievement. Each academic unit has its own convocation, and each honor student is recognized individually. All students who have maintained a grade-point average of 3.5 or better at SIUC (transfer students must have a cumulative average of least 3.5), and who have been full-time students during the entire academic year, are honored.

Various professional, departmental, and fraternal honorary organizations offer recognition and membership to exceptional students. Among them are 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 most of these organizations is announced at the Honors Day ceremonies, although membership in these organizations is not noted on the academic record or diploma.

UNIVERSITY AND DEPARTMENTAL HONORS RECOGNITION AT GRADUATION

As a mark of meritorious achievement in the academic requirements for graduation, students with scholastic averages of 3.50-3.74 receive the notation *Cum Laude;* those with averages of 3.75-3.89 receive the notation *Magna Cum Laude*; and those with averages of 3.9 or better receive the notation *Summa Cum Laude.* These averages apply to all work at Southern Illinois University at Carbondale; for transfer students, the averages also apply to the cumulative record. These honors are noted on the student's academic record and diploma and in the commencement program.

Credit by Means other than Classroom Attendance

Described below are several avenues, other than the classroom, through which students can earn academic credit.

HIGH SCHOOL ADVANCED PLACEMENT PROGRAM (AP)

The High School Advanced Placement Program allows high school students who are qualified through registration in an advanced placement course in their high schools or through other special educational experiences, such as Advanced Placement Tests, to 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 on the examination. The credit awarded will be recorded after the student has earned 12 hours of *C* or above in residence at SIUC.

The maximum credit granted through advanced placement examination is 30 hours (15 for an associate degree). It is nonresident credit, does not carry a grade, and is not used in computing the students' averages. The 30-hour limit also includes any CLEP or proficiency credit that has been earned.

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

American Government: Political Science 114 (3 semester hours)
U.S. History: History 110 and 300 (6 semester hours)
Art History: Art and Design 237 (3 semester hours)
Biology: Plant Biology 115 (3 semester hours)
Chemistry: Chemistry 200, 201, 210, and 211 (8 semester hours)
Comparative Government and Politics: Political Science 250
Computer Science A: Computer Science 202 (3 semester hours)
Computer Science AB: Computer Science 220 (3 semester hours)
Economics/micro: Economics 215 (3 semester hours)
Economics/macro: Economics 214 (3 semester hours)
English Language and Composition with a score of 3 or 4: English 101 (3 semester hours)
English Language and Composition with a score of 5: English 102 and 120 (6 semester hours)
English Literature and Composition: English 121 (3 semester hours)
European History: History 205a&b (6 semester hours)
Foreign Language: credit to be determined in consultation with the chairperson of the Department of Foreign Languages and Literatures
Mathematics:
Calculus AB: Mathematics 150 (4 semester hours)
Calculus BC: Mathematics 150 and 250 (8 semester hours)
Music: credit to be determined in consultation with the director of the School of Music.
Physics B with a score of 3: qualifies the student to take a proficiency exam in Physics 203a&b and Physics 253a&b.
Physics B with a score of 4 or 5: Physics 203a&b (6 semester hours) and Physics 253a&b (2 semester hours)
Physics C, Part I with a score of 3: qualifies the student to take a proficiency exam in Physics 205a and Physics 255a
Physics C, Part I with a score of 4 or 5: Physics 205a (3 semester hours) and Physics 255a (one semester hour)
Physics C, Part II with a score of 3: qualifies the student to take a proficiency exam in Physics 205b and Physics 255b.
Physics C, Part II with a score of 4 or 5: Physics 205b (3 semester hours) and Physics 255b (one semester hour)
Psychology: Psychology 102 (3 semester hours)

Further information about the Advanced Placement Program may be obtained from the appropriate regional office of the College Board or by writing the College Board, 888 Seventh Avenue, New York, New York 10019.

COLLEGE LEVEL EXAMINATION PROGRAM (CLEP)

Through the General Examinations of the College Level Examination Program (CLEP), students may apply for credit that will substitute for university core curriculum courses. Before CLEP credit will be recorded on a student's transcript, the student must earn 12 hours of credit of *C* grade or above in residence at SIUC.

The scores listed below are the minimum required for credit. The scores listed are for tests taken after May, 1989. Students who took exams before that date should consult the *1988 Undergraduate Catalog* for specific scores required. The exams listed below are the only ones for which SIUC will award credit. Also listed are the credit hours that may be awarded for each CLEP exam.

Natural Science: a score of 520 or above entitles the student to receive six semester hours credit of core curriculum courses in science.

Social Sciences and History: a score of 520 or above entitles the student to receive six semester hours credit of core curriculum courses in social science.

Humanities: a score of 520 or above entitles the student to receive six semester hours credit of core curriculum courses in humanities.

English Composition with Essay: with a score of 565 or above on the CLEP English Composition with Essay examination, the student will receive six semester hours of credit for core curriculum courses in composition.

A score of 540 to 564 entitles the student to receive (a) advanced placement in English 120 and (b) six semester hours of credit on successful completion of English 120 with a grade of *C* or higher (three semester hours of English 120 and three semester hours of English 102).

Mathematics: a score of 580 or higher is required to pass the mathematics test. With this score students may earn three hours of credit that will fulfill the university core curriculum mathematics requirement.

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 for students who enroll in the Early Admission program. Such students receive University credit for courses taken during the Early Admission experience and for the CLEP credit earned.

Disciplines included in the science exam include plant biology, microbiology, physiology, zoology, chemistry, physics, earth science, geography, and all university core curriculum science courses. The so-

cial science and history exam includes Western civilization, American history, Afro-Asian civilization, world history, political science, economics, anthropology, sociology, social psychology, social studies, and all university core curriculum social science 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; philosophy—aesthetics, ethics, general survey; and all university core curriculum humanities courses. The mathematics test includes all college-level mathematics.

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

CLEP examinations should be taken at one of the national testing centers and the results sent to the local CLEP coordinator, from where they will be forwarded to Admissions and Records for evaluation.

For further information students should consult with an academic adviser.

PROFICIENCY EXAMINATIONS

Through its proficiency examination program, the University recognizes the importance of providing encouragement for academically talented students, who may apply to demonstrate their mastery of certain courses through proficiency examinations. Application forms are available at the departmental offices.

The following general rules govern 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 for testing; students scoring in the top ten percent of ACT are particularly encouraged to avail themselves of this opportunity.
2. Credit not to exceed 30 semester hours (15 hours toward an associate's 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. All university core curriculum courses are available for proficiency credit, subject to specified restrictions.
4. Students who pass proficiency examinations are granted course credit and receive a *Pass* grade. Their records will show the name of the course, the hours of credit granted, and the 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 there will be no official record of the proficiency examination, although the proficiency examination grade report form will be in the students' files for reference purposes.
5. Students may not take proficiency examinations for the same course more than one time, nor may they take a proficiency examination for a course in which they have previously received a grade. Students who are registered for a course may not receive credit by proficiency examination for that course unless they withdraw from the course by the date during the semester which would result in no course entry appearing on the transcript. This date is the end of the third week for a regular semester course and a correspondingly shorter period for summer session or short courses. Individual departments may require the proficiency examination to be completed in advance of this date.
6. 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.

THREE-YEAR BACCALAUREATE DEGREE PROGRAM

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

INTERNSHIPS IN WASHINGTON

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

Students make prior arrangements through their major departments to receive up to 12 semester hours' credit for fall or spring semesters and up to 6 semester hours for a summer session.

The Washington Center at SIUC is coordinated through University Honors, 3341 Faner Hall, 618 453-2824.

CREDIT FOR WORK EXPERIENCE

Southern Illinois University at Carbondale recognizes that there might well be a number of undergraduate programs for which work experience has a meaningful relationship. The University permits those 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 on 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 check to see whether their major departments approve credit for work experience.

Special Programs

UNIVERSITY HONORS PROGRAM

University Honors is a University-wide undergraduate program that offers uncommon educational ex periences to participating students, making available special sections of certain classes, special honors courses, and independent study. Some special scholarships and internships are available to University Honors students.

The University Honors program is currently open to entering freshmen who apply for membership with an ACT composite score in the 95th percentile or higher. Membership is also open to other than entering freshmen who apply for membership and who have a cumulative grade-point average of 3.25 or better.

Retention in the University Honors program depends on maintaining a 3.25 or better cumulative grade-point average in all course work and having no failing grades in honors courses.

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

To receive the designation "University Honors Program" on a diploma and transcript at graduation, an honors student must complete 15 hours of honors course work (9 hours for two-year College of Technical Careers students, Capstone students, and transfer students with an associate's degree) including a senior honors thesis or project approved in advance by the director.

University Honors students may substitute University Honors seminars for university core curriculum requirements in disciplinery and integrative studies.

University Honors students may be exempted from all university core curriculum requirements if they pass all five CLEP General Examinations, before entering the University, with these minimum scores—natural sciences, social sciences, and humanities, 520; English, composition with essay, 565; and mathematics, 580—and complete the 15-hour Honors program graduation option (9 hours for two-year students and transfers with an associate degree). There is no retroactive extension of the CLEP privilege.

Inquiries about the program should be addressed to the Director of the University Honors Program, 3341 Faner Hall, 618 453-2824.

UNIVERSITY STUDIES DEGREE PROGRAM

University Studies provides another option for earning a baccalaureate degree to students who want a broad university curriculum and do not want to specialize on the undergraduate level and to those whose varied interests do not fit into a traditional discipline. Students may work toward either a Bachelor of Arts or a Bachelor of Science degree in University Studies, which will be granted by the College of Liberal Arts, 618 453-3388.

CAPSTONE OPTION

The Capstone Option is an alternative way for transfer students with Associate in Applied Science (A.A.S.) degrees or equivalent certification to earn a baccalaureate degree. The option involves no more than two additional years of college at a four-year institution and allows students to add to the marketable occupational skills and competencies they have already acquired.

Capstone also provides post-secondary occupational teachers with strong work experience and training in a variety of technical specialties and sub-specialties.

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

College of Agriculture
Agribusiness Economics
Agriculture General
Animal Science
Plant and Soil Science

College of Education
Clothing and Textiles
Early Childhood Education
  Child and Family Services
Workforce Education and Development
  Education, Training & Development
  Administrative Services Training
  Vocational Teacher Development

College of Engineering and Technology
Industrial Technology

College of Liberal Arts
Paralegal Studies

College of Technical Careers
Advanced Technical Studies
Aviation Management
Electronics Management
Fire Science Management (off-campus only)
Health Care Management

Requirements for the Bachelor of Science Degree through Capstone

A student completing a degree using the Capstone Option must complete the same hour requirements, residence requirements, and grade-point average requirements required for all bachelor's degrees. The following university core curriculum requirements must be satisfied:

Science	6 semester hours (select one course from each group)*
Social Science	6 semester hours (select two courses from the approved courses. Only one history course may be selected)*
Humanities	3 semester hours (select one course from either group)*
Fine Arts	3 semester hours (select one course from the approved courses)
Multicultural: Diversity in the U.S.	3 semester hours (select one course from the approved courses)
English Composition	3 semester hours (English 101 or equivalent with a grade of *C* or better)*
Speech	3 semester hours Speech Communication 101
Mathematics	3 semester hours (Mathematics 110, 113, or any mathematics prefix course numbered 108 or above, or equivalent, with the exception of 114)
Minimum Total Required	30 semester hours

* For explanation of science, social science, humanities, fine arts, and multicultural groups, see "University Core Curriculum," Chapter 4 of the *1996-97 Undergraduate Catalog*.

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

Procedures for Applying to the Capstone Option

To qualify for admission to the Capstone Option, the student must:

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

Additional information concerning Capstone requirements, application, and procedures can be obtained from Admissions and Records, Evaluations Division, Mailcode 4701, SIUC, Carbondale, IL 62901-4701, 618 453-2998.

Opportunities for Study Abroad

Southern Illinois University at Carbondale recognizes that students interested in study abroad have widely varying needs and experience. For this reason the University has developed an array of options

ranging from traditional group programs to individual exchanges and internships. SIUC encourages students to use programs offered by other institutions and organizations if the programs conform more closely to their needs. Information about eligibility requirements, program offerings, and application deadlines may be obtained from the Study Abroad Programs division of International Programs and Services. Financial aid is available for all SIUC-sponsored or co-sponsored programs.

INTERNATIONAL STUDIES IN AUSTRIA

One or two semesters of study in German, Austrian life and culture, political science, business, fine arts, and European studies are offered at the SIUC program location in Bregenz, Austria. All courses except German are taught in English and will vary from term to term. Bregenz is located on Lake Constance near the border with Germany and Switzerland. No prior German is required, although it is recommended.

INTERNATIONAL STUDIES IN JAPAN

One or two semesters of study in intercultural communication and Japanese language, culture, and society are offered at the University's off-campus program location in Nakajo, Japan. Students will live with Japanese students and interact with members of the local community. In addition to Japanese studies courses, students may also take university core curriculum and departmental courses offered in Japan.

AUSTRIA-ILLINOIS EXCHANGE PROGRAM

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

SEMESTER IN THE BALTICS

A semester program is offered in one of the Baltic nations of Estonia, Lithuania, or Latvia (formerly parts of the Soviet Union). The location of the program will vary each year. Each program will feature a variety of courses, in English, that will take advantage of the unique setting offered by each of these newly independent states. Field trips to Russia are included in the program.

INTERNATIONAL STUDENT EXCHANGE PROGRAM

The International Exchange Program involves semester or one-year placements at 145 study sites throughout the world. It is a one-for-one exchange plan under which students pay their normal tuition and fees, including room and board, and apply the academic credit they earn toward their degree. 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.

Study sites are found in Africa, Asia, Australia, the British Isles, Canada, Europe, and Latin America. Students in scientific and technical fields, as well as in liberal arts and humanities, are eligible. Applicants must be mature, have a grade-point average of 3.0 or better, and possess appropriate foreign language skills. SIUC is the only Illinois school participating in this program. Additional information may be obtained from International Programs and Services.

U.S.A.-EUROPEAN UNION EXCHANGE PROGRAM (UTRECHT NETWORK)

The Utrecht Network is a consortium of 22 European universities that offer advanced, self-motivated students the opportunity to enroll directly in university courses abroad. The broad focus of the exchange is European Community Studies, which could appeal to students from many departments. There are institutions in Denmark, Belgium, Germany, Italy, Portugal, Ireland, Austria, United Kingdom, France, Sweden, Spain, Greece, Netherlands, Norway, Iceland, and Switzerland. SIUC students are currently studying at the University of Coimbra in Portugal and Bochum University in Germany.

DIRECT EXCHANGES

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

TRAVEL/STUDY PROGRAM

Travel/study courses are offered between sessions as well as during the summer months. Students must register four to six months before the start of the course and may earn graduate or undergraduate credit, depending on the nature of the course. Approximately five offerings, ranging in length from one week to two months, are available during each academic 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 from International Programs and Services.

MID-AMERICA UNIVERSITIES INTERNATIONAL

University students may enroll through SIUC for study-abroad programs offered by the following member institutions: Kansas State University, Oklahoma State University, University of Kansas, University of Nebraska, University of Missouri, and University of Oklahoma. Programs are available in a wide variety of locations.

COUNCIL ON INTERNATIONAL EDUCATIONAL EXCHANGE

The University participates in various study-abroad consortia sponsored through the Council on International Educational Exchange.

These include language and culture programs in Brazil, China, the Dominican Republic, France, Indonesia, Spain, and the former Soviet Union; business and society programs in China, Japan, and Spain; the Summer Tropical Biology Program in Costa Rica; the Paris Internship and Study Program; and Cooperative East European Studies Programs in Hungary and Poland.

EXTERNAL PROGRAMS

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

INDEPENDENT STUDY

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

Scholastic Standards

At the end of each semester or session of attendance at SIUC 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 used in calculating students' grade-point average. However, to be removed from probation, transfer students who are admitted on probationary status will be required to earn a 2.0 or better average, semester by semester, until 12 acceptable semester hours have been earned. This rule needs to be clearly understood by transfer students studying under the general baccalaureate degree requirements.

All grades of *A*, *B*, *C*, *D*, and *F* are used in computing grade-point averages. Each hour of these grades (1 hour of *A* is worth 4 grade-points) is given its numerical grade-point, and the total number of hours is then divided into the total number of grade- points to determine the grade-point average. A 2.0 (*C*) average is the minimum required for work taken at SIUC.

Students with a *C* (2.0) or lower grade-point average who wish to transfer from one SIUC unit to another will be admitted to the new academic unit only with the permission of 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 cumulative SIUC average fall below a *C* average (2.0), the student will be placed on scholastic probation. Students on scholastic probation may continue to be enrolled at SIUC as long as they do not accumulate more than six negative points, although students with more than six negative points will not be suspended as long as their term average is at least *C* (2.0). A student will remain on scholastic probation until the cumulative SIUC average rises above *C* (2.0).

Students on scholastic probation must have the approval of the dean of their academic unit to enroll for more than 14 hours a semester. Other limitations may be established by the individual academic units.

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 they must furnish tangible evidence that they will be successful in undertaking additional education.

Some academic units have scholastic requirements in addition to the overall University requirements listed here. Students must learn and comply with requirements of individual schools and colleges as well as those of the University.

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. Students must successfully complete a minimum of 120 semester hours of credit in approved courses.
2. Transfer students must earn the last 30 semester hours toward a degree in residence at SIUC.
3. Students must earn an overall *C* average and a *C* or better average in the major. These requirements apply to work taken at Southern Illinois University at Carbondale; the University does not carry the transfer grade-point average.
4. Students must complete university core curriculum requirements, upper-division unit requirements, and the requirements of the major and minor concentrations.

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, and by the residence requirements. 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 but not toward the residence requirement.

2. An associate degree in a baccalaureate-oriented program from an accredited institution will be accepted as meeting all the SIUC university core curriculum requirements. The degree will not, however, waive specific academic unit or major and minor requirements that may be offered through university core curriculum courses.

UNIT OF CREDIT

The University is on the early semester calendar. 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-a-half quarter hours. One semester hour of credit represents the work done by a student in a lecture course attended fifty minutes a week for one semester and, in the case of laboratory and activity courses, the stated additional time.

CLASS STANDING

The University requires students to earn at least 120 semester hours of acceptable credit to receive a bachelor's 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 the minimum number constituting full-time attendance for undergraduate students. This is the figure used for reporting undergraduate enrollment by the Illinois State Scholarship Commission and for Public Law 358. Students attending school under some type of scholarship or assistance program that requires them to be enrolled full-time should check this point with the University office administering the program. Further information on Public Law 358 is available from Financial Aid.

Students on scholastic probation must have the approval of the dean of their academic unit to enroll for more than 14 hours a semester. Students employed full-time may not register for more than eight hours.

University Core Curriculum

The university core curriculum is a significant part of the educational process at SIUC. A solid grounding in the liberal arts and sciences will be useful to students in their major programs and will enrich their lives after graduation.

The core curriculum does not require that all students take exactly the same courses. However, through a carefully selected menu of courses this required program emphasizes analytic and imaginative abilities that are essential for a life of inquiry, creativity, and informed civic participation. To make the most of the core curriculum, students are required to complete their foundation skills courses (composition, speech, mathematics) by the time they have completed 56 semester hours of course work. Students are strongly advised to complete their disciplinary studies courses before enrolling in the integrative studies courses.

Further information about SIUC's university core curriculum is available from the Director of University Core Curriculum, College of Liberal Arts, Mailcode 4522, SIUC, Carbondale, IL 62901-4522.

UNIVERSITY CORE CURRICULUM REQUIREMENT - 41 HOURS

I. **Foundation Skills:** **12 hours**

Composition..... 6 hours
ENGL 101, to be completed with a grade of *C* or better, and ENGL 102. ENGL 120, if completed with a grade of *C* or better, will also complete the composition requirement. LING 101 and LING 105 will complete the composition requirement for foreign students.

Math..... 3 hours
MATH 110, MATH 113 or any higher level math course numbered 108 or above with the exception of 114.

Speech..... 3 hours
SPCM 101

II. **Disciplinary Studies** **23 hours**

Fine Arts..... 3 hours
Select one course from the following: AD 101, CP 101, ENGL 203, HIST 201, MUS 103, THEA 101.

Human Health..... 2 hours
Select one course from the following: FN 101, HED 101, MICR 202, PE 101, PHSL 201, ZOOL 202.

Humanities.....6 hours
Select one course from each group:

Group I	Group II
HIST 101a&b	ENGL 121
PHIL 103a&b	ENGL 204
FL 101	PHIL 102
	PHIL 104
	PHIL 105
	FL 230

Or, select one of the following sequences:
HIST 101a&b
ENGL 121, 204
PHIL 103a&b (Humanities)
Science With Labs.....6 hours
Select one course from each group:

Group I	Group II
CHEM 106	PLB 115
GEOL 110	PLB 117
PHYS 101	ZOOL 115

Social Science.....6 hours
Select two courses from the following (students may take only one course in history to satisfy this area requirement): ANTH 104, ECON 113, GEOG 103, HIST 110, HIST 112, POLS 114, PSYC 102, SOC 108.

III. Integrative Studies: **6 hours**
Students are strongly advised to complete their disciplinary studies courses before enrolling in the integrative studies courses.
Multicultural: Diversity In The United States.....3 hours
Select one course from the following: AD 227, AJ 202, ANTH 202, BAS 215, ENGL 205, HIST 202, HIST 210, LING 201, PHIL 210, PHIL 211, SOC 215, SPCM 201, WMST 201
Interdisciplinary:..... 3 hours
Select one course from the following: AGRI 300I, AD 310I, ECON 302I, ENGL 308I, ENGR 301I, ENGR 303I, FL 310I, FL 313I, GEOG 303I, HIST 304I, LAC 300I, PHIL 303I, PHIL 307I, PHIL 308I, PHIL 309I, PLB 301I, PLB 303I, SOC 304I, SOC 305I, SOC 306I, SPCM 301I, ZOOL 312I.

MEETING UNIVERSITY CORE CURRICULUM REQUIREMENTS

University core curriculum requirements may be met by any of the following, subject to the rules and limitations listed:

1. **Completion of university core curriculum courses with a satisfactory grade.** Each student must complete the foundation skills courses (composition, speech, mathematics) or their approved substitutes prior to or upon completing 56 semester hours of course work. The student, working with the academic adviser, shall have the responsibility of meeting this requirement.
2. **Proficiency credit by examination for university core curriculum courses or approved substitute courses.** Substitutions for university core curriculum courses are limited to 12 hours. All university core curriculum courses are eligible for proficiency credit subject to specified restrictions. (See proficiency examinations in Chapter 2 of the *1996-97 Undergraduate Catalog*.) Students should contact the individual department for specific information.
3. **Proficiency credit via general examinations of the College Level Examination Program (CLEP) or Advanced Placement (AP).** Credit given through the High School Advanced Placement Program, College Level Examination Program, and proficiency examination will be nonresident, will not carry a grade, and will not be used in computing the student's grade-point average. The credit will be validated after 12 hours credit in residence at SIUC.
4. **Transfer students may satisfy the requirements of the university core curriculum through successful completion of the Illinois core curriculum.** Transfer students who have not completed all general education or core curriculum requirements prior to enrolling at SIUC can have their transcripts evaluated and comparable courses applied toward the university core curriculum requirements on a course-by-course basis.

   Completion of an associate degree from a baccalaureate-oriented program in an accredited Illinois two-year institution allows a student to (a) be accepted with junior standing and (b) be considered as having completed the university core curriculum requirements. Associate degrees earned at other than Illinois two-year institutions will be reviewed by Admissions and Records. If the degree is determined to be baccalaureate-oriented and to have comparable content and credit-hour criteria, the same benefits will be extended. Credit from an accredited two-year institution is limited only by the provisions that students must earn at least 60 semester hours of work at the University or at any other approved four-year institution and must complete the residence requirements for a degree from the University. Students who have received a bachelor's degree from an accredited institution will also be considered as having their university core curriculum course completed.

   Additional information concerning admission of a transfer students and the evaluation of transfer credit can be found in the sections of this catalog pertaining to those specific programs.
5. **Completion of departmental courses listed as substitutions for university core curriculum courses.**

6. **Course credit from the former general education program may be used by students who started their post-secondary education at Southern Illinois University at Carbondale or another accredited institution beginning summer 1989 to spring 1996.** All approved substitutions for the former program will be honored. Students may not use more than one general education courses to count for more than one university core curriculum requirement. Students should consult their collegiate unit advisers for further information regarding the translation of specific courses.

UNIVERSITY CORE CURRICULUM APPROVED COURSE SUBSTITUTIONS

Core Curriculum Course	Approved Substitute
ANTH 202	ANTH 310G
AD 101	AD 207a, 237
CHEM 106	CHEM 140a, 200 or 222
ECON 113	ECON 214, 215, 240, 241, or ABE 204
ENGL 205	ENGL 225, ENGL 325, or WMST 225
GEOG 103	GEOG 300
GEOL 110	GEOL 220
HIST 110	HIST 301
HIST 210	HIST 300
MICR 202	MICR 444
MUS 103	MUS 357a or 357b
PHIL 102	PHIL 204 or 205
PHIL 104	PHIL 340
PE 101	PE 114
PHYS 101	PHYS 203a and 253a, 203b and 253b, 205a and 255a, 205b and 255b, or TC 126
PHSL 201	PHSL 310
PLB 115	BIOL 200 or PLB 200, or ZOOL 118, 220a or 220b
PLB 303I	ZOOL 404
ZOOL 202	ZOOL 214
ZOOL 115	BIOL 200 or MICR 201 or PLB 200, or ZOOL 118, 220a or 220b
HUMANITIES Group 1 or Group 2	A student may substitute up to a maximum of three credit hours with either a third semester of a foreign language or a first semester or more advanced course in Latin or Greek.

A maximum of twelve (12) semester hours of approved course work may be substituted for university core curriculum courses, with the exception of approved University Honors Program substitutions. A maximum of three (3) semester hours of the University Honors Program may be substituted in each of the sub-areas of fine arts, human health, multicultural: diversity in the U.S., and interdisciplinary studies; and a maximum of six (6) semester hours of the University Honors Program may be substituted in each of the sub-areas of humanities, science, and social science, subject to the advanced determination by the Director of the University Honors Program and the approval of the Core Curriculum Executive Council.

UNIT OF CREDIT

The University is on the early semester calendar. All references to hours of credit in this catalog 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.

TRANSFER CREDIT

After an admission decision has been made, transfer credit for students admitted to the University is evaluated by Admissions and Records for acceptance toward SIUC and university core curriculum requirements. All credit from regionally accredited institutions and those in candidacy status, or from institutions that have their credit accepted by the reporting institution in the state, is evaluated at the time of admission. Remedial or developmental courses will not be accepted for transfer credit. Transfer credit from baccalaureate and non-baccalaureate programs used toward specific program requirements will be evaluated by the department directing the program.

All credit accepted for transfer and not applied to university core curriculum requirements or to a specific degree program will be considered elective credit. A student should not expect to receive credit if the transfer work was taken at a school not regionally accredited or one whose credit is not accepted by the reporting institution in the state.

Students who have an associate degree from a baccalaureate-oriented program in an accredited Illinois two-year institution will be (a) accepted with junior standing and (b) considered to have completed the university core curriculum requirements. Associate degrees earned at other than Illinois two-year institutions will be reviewed by Admissions and Records. If the degree is determined to be baccalaureate-oriented and to have comparable content and credit-hour criteria, the same benefits will be extended to those graduates. Credit from an accredited two-year institution is limited only by the provi

sion that students must complete at least 60 semester hours of work at the University or at any other approved four-year institution and must complete the residence requirements for a degree from the University. Students who have received a bachelor's degree from an accredited institution and come to SIUC for a second bachelor's degree will have completed the university core curriculum requirement.

SUBMISSION OF TRANSCRIPTS

Transfer students who have taken college-level work at other institutions must have an official transcript of all work, from each college or university attended, forwarded to Admissions and Records. 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, dismissal, or denial of credit.

Transfer students may be admitted and their work tentatively evaluated on the basis of a partial or incomplete transcript. However, if the final and complete transcript is not submitted, the student will not be allowed to register for a second semester. It is the student's responsibility to have transcripts sent to 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 information about the status of institutions for credit acceptance purposes.

ACCEPTANCE OF CREDIT FROM INSTITUTIONS NOT REGIONALLY ACCREDITED

Special regulations apply to students who transfer from institutions not regionally accredited.

Occupational work taken from an institution not regionally accredited and presented by a student with an associate's degree or equivalent and with a *C* average or better may be evaluated by the student's major department.

There is no provision for granting credit from an unaccredited institution except by proficiency examinations or individual review by the academic unit the student enters.

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 will be evaluated, course by course, through Admissions and Records. Courses must be equivalent in content to courses at SIUC before credit can be granted. Departmental courses will be evaluated by the department to determine their acceptability. Students 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 its equivalent and are applying to the graduate school. Records must list subjects taken each year and the grades or marks received. Each transcript must include a complete list of all courses taken at that institution and the grades received. There should also be included a description of the grading system of each institution attended and, if possible, a statement of the student's scholastic rank in his or her graduating class.

EXTENSION AND OFF-CAMPUS CORRESPONDENCE CREDIT

The University accepts credit earned through extension, off-campus, or correspondence programs toward the bachelor's degree. Not more than 30 semester hours may be taken in correspondence work.

Correspondence work taken from regionally accredited institutions is accepted if the grade is of *C* quality or better. SIUC operates an individualized learning program, similar to correspondence programs, in which students may earn academic credit.

Persons may enroll for off-campus work on an audit basis if facilities are available. They must receive permission of the instructor to do so, and they must pay the same tuition as though they were registering for credit.

CREDIT FOR MILITARY EXPERIENCE

Students who have served one or more years of active duty and received an honorable discharge may receive two hours of aerospace studies credit, two hours of physical education credit, and two hours of health education credit. Service of six months to one year may result in two hours of freshman aerospace studies or army military science credit. Completion of basic training will result in an award of two hours of physical education credit.

Credit will be accepted for DANTES subject standardized courses within the limits enforced for proficiency credit. No credit is allowed for college-level G.E.D. tests. In evaluating credit possibilities based on formal service-school training programs, the recommendations of the American Council on Education, as set forth in the US. Government bulletin *Guide to the Evaluation of Educational Experiences in the Armed Forces*, are followed.

To receive credit for military service, veterans must present a copy of discharge or separation papers to Admissions and Records, Evaluations Division, Mailcode 4701, SIUC, Carbondale IL 62901-4701.

PREPARATORY OR DEVELOPMENTAL COURSES

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

REPEATING COURSES AND THE GPA

Grades earned in repeated course work will be averaged for both admission and evaluation.
Transferred grades are not considered in calculating SIUC grade-point averages.

Instructional Units

Pre-Professional Programs

Programs of study labeled "pre-professional" do not lead to degrees at SIUC. Pre-professional students who will be on campus for more than two years should enroll as double majors and enter the college that grants a degree in the second major. Students without an additional major will be enrolled in the College of Liberal Arts (pre-law majors), Pre-Major Advisement Center (pre-nursing majors), or College of Science (health career majors). Pre-professional programs are available in the following areas:

Dentistry (3 or 4 years)
Law (3 or 4 years)
Medicine (including osteopathy and podiatry) (4 years)
Nursing (3 or 4 semesters)
Optometry (3 or 4 years)
Osteopathy
Pharmacy (1 or 2 years)
Physical therapy (2 to 4 years)
Podiatry (4 years)
Veterinary medicine (3 or 4 years)

The University also offers professional curricula in engineering and law at Carbondale, medicine at Carbondale and Springfield, and dentistry and nursing at 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 the requirements for a major at the professional school, but this is permitted only with prior approval from the appropriate division. Students also have to complete at least one year of professional work, with acceptable grades, in an accredited dental, law, optometry, podiatry, or veterinary school.

In all cases, SIUC graduation requirements must be met. Students must make the decision to seek a bachelor's degree before entering the professional school, so that criteria can be clarified early on. SIUC's University Career Services schedules aptitude and/or admission tests for some professions; preregistration for these tests is required.

College of Agriculture

For more than a century America's agricultural jobs have been moving from farms to cities, suburbs, and rural communities. As a result, opportunities are probably broader in agriculture than in any other area of employment. The spectrum of career choices for agricultural graduates ranges from the rural producer through the many processing and distributing occupations to those who provide services to the agricultural food and natural resource industries.

The curricula of the five departments of the College of Agriculture, which are presented on the following pages, will appeal to students with wide-ranging interests and abilities in the physical, biological, and social sciences. These basic sciences come together in agriculture to solve food, fiber, environmental, and ecological problems in the local community, the state, the nation, and the world.

MAJORS OFFERED

Agribusiness Economics
Food and Nutrition
General Agriculture
Forestry
Animal Science
Plant and Soil Science

FACILITIES

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

ACCREDITATION

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

UNDERGRADUATE DEGREE OFFERED

Bachelor of Science

GRADUATE PROGRAMS

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

ORGANIZATIONS

Scholastic and professional honoraries: Alpha Zeta (agriculture), Eta Sigma Delta (hotel, restaurant and travel administration), Pi Alpha Xi (floriculture and ornamental horticulture), Xi Sigma Pi (forestry).

Special interest: Alpha Gamma Rho agricultural fraternity and Sigma Kappa agricultural sorority (in development) *College-wide:* Agricultural Student Advisory Council, Agbassadors®, Ag Start.

Departmental: Agricultural Computer Club, Agricultural Communicators of Tomorrow, Agricultural Mechanization Club, Agribusiness Economics Club, Block and Bridle, Collegiate FFA, Equine Science Club, Forestry Club, Hotel and Restaurant Students Association, International Agriculture Club, Society of Minority Hoteliers, Plant and Soil Science Club, Pre-Veterinary Science Club, Society of American Foresters, Student Dietetic Association.

TRANSFER STUDENTS

If agriculture is offered for transfer credit at a regionally accredited associate's degree-granting college, introductory courses in the various fields may be accepted at SIUC in lieu of equivalent courses. Transfer students interested in one of the agricultural, food, or forestry areas should take course work in the physical and biological sciences, social sciences, and humanities, as well as speech and appropriate sequences in English composition and college-level mathematics, before entering SIUC. All agriculture majors must have work in mathematics; plant biology or zoology, or biology; chemistry; economics; and speech. Students who have an associate in applied science degree in an occupationally oriented program should inquire into the possibilities of entering the College of Agriculture under the Capstone Option (see "Capstone Option," p. 34).

FOR FURTHER INFORMATION:

Assoc. Dean for Academic Programs
College of Agriculture
Telephone 618 453-2469

New Student Admission Services
Telephone 618 536-4405

College of Business and Administration

The College of Business and Administration, housed in Henry J. Rehn Hall, prepares students to perform successfully in businesses and other organizations that function in a changing social, economic, and political environment. Students find that the professional education they receive in the college is useful to businesses, governmental units, and public institutions. The advanced curriculum, computer experience, and internship programs not only are useful as educational tools but also give students a head start on their careers.

ACCREDITATION

American Assembly of Collegiate Schools of Business (AACSB)
North Central Association of Colleges and Schools

DEGREES OFFERED

Bachelor of Science
Accounting
Business and Administration
Business Economics
Finance
  Financial Institutions
  Financial Management

Management
Entrepreneurship
Management

Management Information Systems
Operations Management
Marketing

GRADUATE PROGRAM

The College of Business and Administration offers the master of business administration (M.B.A.), master of accountancy (M.Acc.), and doctor of business administration (D.B.A.) degrees.

ORGANIZATIONS

Scholastic and Professional: Alpha Kappa Psi (business), Beta Alpha Psi (accounting), Beta Gamma Sigma (business), Phi Gamma Nu (business), Pi Sigma Epsilon (marketing), Society for Advancement of Management (SAM), American Marketing Association (AMA).

Departmental: Concerned Professional Accountants, American Marketing Association, College of Business and Administration Student Council, Financial Management Society, Blacks Interested in Business, International Business Associations, Successmasters.

TRANSFER STUDENTS

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

Courses	Semester Hours
Principles of Accounting	6.0
Economic Principles	6.0
Business/Economic Statistics	3.0
Basic computer course[2]	3.0
Legal and Social Environment of Business	3.0

[1] At least 40 percent of the course work of all business majors, but not more than 60 percent, must be in economics and business prefix courses. This is called the 40 percent rule.

[2] Computer course work completed at other universities and colleges will be accepted as transfer credit for the core computer requirement if it has been judged equivalent by the College of Business and Administration. The transferred course work must, at the least, include complete instruction in databases, spreadsheets, and information systems.

Students also have the opportunity of validating additional course work, 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.

FOR FURTHER INFORMATION:

Chief Academic Adviser
College of Business and Administration
Telephone 618 536-4431
Rehn Hall 125

New Student Admission Services
Telephone 618 536-4405

College of Education

Preparing teachers of all subjects taught in the public schools from pre-school through high school is the special function of the College of Education. Its graduate offerings, however, 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 comprises six academic departments: Curriculum and Instruction; Educational Administration and Higher Education; Educational Psychology and Special Education; Health Education and Recreation; Physical Education; and Workforce Education and Development.

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

CERTIFICATION

A student nearing completion of the teacher education program (usually during the last semester) can obtain the forms to make application for entitlement to certification for the State of Illinois from the College of Education Student Services, Wham Education Building, Room 135. Upon completion of the

application forms by the student, the certification staff will process the forms. When the student's program, including graduation clearance, is completed, the office will mail the completed forms to the student's permanent address for use in applying for certification through the student's future educational service region superintendent.

Applicants for certification must register and pass the Illinois Certification Test for Basic Skills and Illinois Certification Area before being granted a certificate. Students are advised to take the Basic Skills Test in their junior year. The Illinois Certification Area Test should be taken before graduation.

The State of Illinois issues through the entitlement process the Standard Elementary Certificate, Standard High School Certificate, Standard Special Certificate, or Early Childhood-Preschool Certificate to students who graduate from an approved teacher education program at the University.

Standard Elementary Certificate. Students planning to teach on the elementary level in the public schools of Illinois register in the College of Education. Requirements for entitlement to the State of Illinois standard elementary certificate may be met through the completion of the elementary education (K-9) program. For further information concerning these programs, see the sections of the *1996-97 Undergraduate Catalog* titled "Curriculum and Instruction," and "Professional Education Experiences" in Chapter 5.

Standard High School Certificate. Requirements for entitlement to the State of Illinois standard high school certificate and for entitlement to the standard special certificate may be met as explained in the section of the SIUC *1996-97 Undergraduate Catalog* titled "Curriculum and Instruction," in Chapter 5. A listing of majors, minors, and other programs approved for certification entitlement purposes at Southern Illinois University at Carbondale is presented there. It is possible for a student to be registered in one of the colleges or schools other than the College of Education and to meet the state requirements for the standard high school certificate or the standard special certificate (described below) by using as electives certain prescribed professional education requirements in the College of Education.

Standard Special Certificate. Teaching all grades, kindergarten through grade 12, requires the standard special certificate. As noted above, requirements for entitlement to the standard special certificate may be met in the manner outlined in the section of the SIUC *1996-97 Undergraduate Catalog* titled "Curriculum and Instruction," in Chapter 5. Teaching fields for which the standard special certificate is issued include physical education, special education, music, art, and communication disorders and sciences.

Early Childhood Certificate. Students planning to teach at the preschool-primary level in the public schools or other settings in Illinois register in the College of Education. The early childhood preschool/primary program is specifically designed to prepare future teachers of pre-kindergarten, kindergarten, and primary age children. For further information concerning the program, see the section of the SIUC *1996-97 Undergraduate Catalog* titled "Curriculum and Instruction," in Chapter 5.

ACCREDITATION

North Central Association of Colleges and Schools
National Council for Accreditation of Teacher Education

DEGREES OFFERED

Bachelor of Science

GRADUATE PROGRAMS

Students can continue on the graduate level in these programs and in other areas not listed. For more specific information, students should consult the College of Education and the Graduate School and read the SIUC *Graduate Catalog.*

ORGANIZATIONS

Scholastic and Professional Honoraries: Kappa Delta Pi, Phi Delta Kappa, Pi Omega Pi, Delta Pi Epsilon, Eta Sigma Gamma, 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, Iota Lambda Sigma.

College: Organization for Multi-Ethnic Students in Education

TRANSFER STUDENTS

Students preparing to teach should familiarize themselves with all the specific requirements and prerequisites for teacher certification. Be aware that admission to the University or to an academic unit does not admit a student to the formal Teacher Education Program (see "Admission of Transfer Students," p. 10.

All teacher education candidates are required to complete 100 clock hours of supervised pre-student-teaching clinical experiences. These hours are included in Education 310 and 316 and are planned primarily for the junior and senior professional level of the program. Articulation of courses (integration of required course work) with Illinois community colleges provides a way of gaining some of the clock hours before entering SIUC. Prospective students are encouraged to check for articulation of these courses before enrolling in similar community college courses. Such courses are articulated through the College of Education and Tom McGinnis of New Student Admission Services.

Students wanting to transfer occupational credit into the College of Education should consult a program coordinator in the Department of Workforce Education and Development to determine how this credit might be applied toward meeting degree requirements.

SECONDARY EDUCATION

Students who elect to pursue a bachelor of science degree in the College of Education, in preparation for teaching in junior or senior high schools, should select academic majors and minors from the areas included in the listing below. In the column headed "Major" are those areas for which SIUC has approval from the State of Illinois Office of Education and the State Teacher Certification Board.

Teaching Area	Major	Minor[1]
Agricultural education	X	
Art	X	
Biological sciences	X	X
Black American studies		X
Chemistry	X	X
English	X	X
Foreign languages	X	X
Health education[3]	X	
History	X	X
Mathematics	X	X
Microbiology		X
Music	X	X
Workforce education and development	X	
(business education)		
(home economics education)		
Philosophy		X
Physical education	X	X
Physiology		X
Political science	X	X
Psychology		X
Social studies	X	
Sociology		X
Theater		X
Zoology[2]	X	X

[1] All minors used for additional areas of qualification must include a minimum of 18–29 semester hours.

[2] A student with a major in zoology should have a minor in plant biology to meet certification standards for teaching biology at the high school level.

[3] Driver education is offered for certification purposes in the Department of Health Education and Recreation.

FOR FURTHER INFORMATION:

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

College of Engineering

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

ACCREDITATION

North Central Association of Colleges and Schools
Engineering Accreditation Commission of the Accreditation Board for Engineering and Technology (EAC/ABET) (engineering programs)
Technology Accreditation Commission of the Accreditation Board for Engineering and Technology (TAC/ABET) (engineering technology programs)
National Association of Industrial Technology (industrial technology programs)

DEGREES OFFERED

Bachelor of Science

Civil Engineering
Electrical Engineering
Computer Engineering*
Mechanical Engineering
Mining Engineering
Engineering Technology
Industrial Technology

* A specialization within the electrical engineering major.

GRADUATE PROGRAMS

Master's degree work is available in a number of specialties in civil engineering, electrical engineering, mechanical engineering, mining engineering, and manufacturing systems. A Ph.D. program in engineering science is also available. For specific information concerning advanced degree work, consult the College of Engineering, the Graduate School, and the SIUC *Graduate Catalog*.

TRANSFER STUDENTS

Students should note that the minimum mathematics requirement for bachelor's degrees in the College of Engineering will vary, depending on 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 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 in the industrial technology major under the Capstone Option. Requirements of this special program can be found in "Capstone Option," p. 34.

FOR FURTHER INFORMATION:

Dean
College of Engineering
Telephone: 618 453-4321

College of Liberal Arts

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

Administration of Justice
African Studies[1]
Anthropology
Art
Asian Studies[1]
Black American Studies[1]
Chinese[1]
Classical Civilization[1]
Classics
Comparative Literature[1]
Design
East Asian Civilizations[1]
Economics
English
Foreign Language and International Trade
French
Geography
German
Greek[1]
History
Japanese[1]
Latin[1]
Linguistics
Mathematics
Museum Studies[1]
Music
Paralegal Studies
Philosophy
Political Science
Psychology
Russian
Sociology
Spanish
Speech Communication
Theater
University Studies[2]

[1] Minor only.

[2] University Studies students seeking the Bachelor of Science degree are not required to complete one year of a foreign language.

College Requirements Effective Fall, 1996. Students beginning college in fall 1996 or later must satisfy the following requirements:

1. meet University requirements, including those relating to university core curriculum, residency, total hours, and grade-point average;
2. successfully complete requirements in an approved major in the College of Liberal Arts;
3. successfully complete at least 40 hours of course work at the 300 or 400 level;
4. successfully complete one year of a foreign language (might include Study Abroad course work) and one course in English composition in addition to university core curriculum requirements.
5. successfully complete one approved writing-intensive course designated by the major department as fulfilling the Writing-Across-the-Curriculum requirement;
6. successfully complete one science course with lab in addition to the university core curriculum requirements.

Students should consult an adviser early in their college careers about any problems related to these requirements. Students planning to attend graduate school, law school, medical school, or other professional schools should also consult their advisers on how best to plan their undergraduate curriculum.

FOR FURTHER INFORMATION:

Dean
College of Liberal Arts
Telephone 618 453-2466

College of Mass Communication and Media Arts

The College of Mass Communication and Media Arts comprises three academic units:
Department of Cinema and Photography
Department of Radio-Television
School of Journalism
Complete information about the programs offered in each of these academic units is provided under the departmental description in the *SIUC 1996-97 Undergraduate Catalog*.

Two service units are housed in the college:

The *Daily Egyptian*, a student newspaper with a circulation of 27,000;

Broadcasting Service, operating WSIU-FM, a public radio station, and WSIU-TV, Carbondale and WUSI-TV, Olney, public television stations.

Although admission to the University is handled through Admissions and Records, those students who desire specific information about a major should make an appointment with an academic adviser of that department or school. Each unit of the College of Mass Communication and Media Arts has one or more individuals who will advise prospective students about major requirements, curriculum, activities, careers, and opportunities. Students may also discuss transfer credit and placement in courses with each academic unit in the college.

Faculty of the college are engaged in research/creative activities concerning mass communication and media arts. They also provide consulting service and other communication services to schools, newspapers, radio and television stations, businesses, and governments. They hold professional memberships and serve as officers in various local, state, national, and international organizations in the communications media. A number of special events every year include The Big Muddy Film Festival, Journalism Week, and Radio-Television Week.

DEGREES OFFERED

Bachelor of Arts
- Cinema and Photography
- Radio-Television

Bachelor of Science
- Journalism

GRADUATE PROGRAMS

Master of Arts
- Journalism
- Telecommunications

Master of Science
- Journalism

Master of Fine Arts
- Cinema and Photography

Doctor of Philosophy
- Journalism

For specific information about graduate work, students should consult the Graduate School and the graduate director in their department of interest in the college.

FOR FURTHER INFORMATION

Chief Academic Adviser
College of Mass Communication and Media Arts
Telephone 618 453-4308

New Student Admission Services
Telephone 618 536-4405

College of Science

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

Biological Sciences
Chemistry
- Biochemistry[1]
- Business[1]
- Environmental[1]
- Forensic[1]

Computer Science
Geology
Mathematics
Microbiology
Physics
Physiology
Plant Biology
Zoology

Pre-professional programs are offered in the following areas:

Dentistry
Medicine
Optometry
Osteopathy
[1]Specialization
Podiatry
Pharmacy
Physical Therapy
Veterinary Medicine

ACADEMIC REQUIREMENTS

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

BIOLOGICAL SCIENCES

Students must complete 6 semester hours in courses offered by the biological sciences departments in the college. Although these courses may be substituted for the university core curriculum requirements, the department requirement cannot be satisfied by university core curriculum courses.

FOREIGN LANGUAGE

The foreign language requirement can be met either by passing an 8-hour, 100-level sequence in one language, by earning 8 hours of 100-level credit in one language through proficiency examination, or by 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. If the language is presently taught at SIUC, academic credit may be earned. If the language is not presently taught at SIUC, no credit is given, but partial or full satisfaction of the science foreign language requirement may be granted if the student's major department so recommends.

A student whose native language is English, but who has learned another language not taught at SIUC, may qualify without credit for partial or full satisfaction of the science foreign language requirement under certain circumstances, including formal recommendation by the student's major department and availability of an examiner and examination materials in the Department of Foreign Languages and Literatures. For information, the student should consult the College of Science advisement center.

MATHEMATICS

The mathematics requirement can be met by passing either Mathematics 108 and 109, or 111 or equivalent, or 141.

PHYSICAL SCIENCES

Students must complete 6 semester hours in courses offered by the physical science departments of the college. Although these courses may be substituted for the university core curriculum requirements, the department requirement cannot be satisfied by university core curriculum courses.

GENERAL REQUIREMENTS

At least 40 hours of the 120 hours required 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 taken in residence.

FOR FURTHER INFORMATION:

Dean
College of Science
Telephone 618 536-6666

College of Technical Careers

The College of Technical Careers provides bachelor's-degree programs and two-year college-level associate-degree (A.A.S.) programs. Graduates with associate's degrees qualify for employment at the semiprofessional and technical levels in industry, the health-care professions, and business. A combination of technical courses and university core curriculum 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. Industry and business require two to seven properly trained technicians for every professional person.

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

ACCREDITATION

North Central Association of Colleges and Schools; American Board of Funeral Service Education, Commission on Dental Accreditation of the American Dental Association, Joint Review Committee on Education in Radiologic Technology, CAHEA and the Joint Review Committee for Respiratory Therapy Education, National Fire Protection Association, National Shorthand Reporters Association, National Automotive Technicians Education Foundation, National Association of Schools of Art and Design, and the Foundation for Interior Design Education Research. The Aviation Program is approved by the Federal Aviation Administration.

DEGREES OFFERED

Bachelor of Science
Associate in Applied Science

BACHELOR'S DEGREE PROGRAMS

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

ASSOCIATE IN APPLIED SCIENCE DEGREE PROGRAMS

Architectural Technology
Automotive Technology
Aviation Flight
Aviation Maintenance Technology
Commercial Graphics-Design
Construction Technology
Dental Hygiene
Dental Technology
Electronics Technology
Photographic Production Technology
Mortuary Science and Funeral Service
Office Systems and Specialties
Physical Therapist Assistant
Radiologic Technology
Respiratory Therapy
Tool and Manufacturing Technology

ORGANIZATIONS

Honorary: Dental Hygiene Society.

Professional: Alpha Eta Rho (international aviation fraternity), Phi Beta Lambda (international business education), Sigma Phi Sigma (mortuary science), CTC Electronics Association, Delta Tau (dental lab), Junior SIU American Dental Hygiene Association, and Sigma Phi Alpha, Society of Manufacturing Engineers student chapter, SAE—Society of Automotive Engineers, National Intercollegiate Flying Association, Student Chapter of the American Association of Airport Executives (since 1983).

TRANSFER STUDENTS

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

CAPSTONE OPTION

A student with an associate in applied science (A.A.S.) degree who achieved a GPA of 2.25 or better on a 4.0 scale at the time of receiving the A.A.S. degree is eligible for the Capstone Option, which reduces the amount of university core courses required and guarantees the student a bachelor of science degree with no more than 60 planned semester hours of course work beyond the A.A.S. degree. Qualified students who wish to participate in the Capstone Option must have a Capstone application on file at SIUC by not later than the end of the first semester in the bachelor's degree program.

FOR FURTHER INFORMATION:

Dean
College of Technical Careers
Telephone: 618 453-8821

School of Social Work

The School of Social Work prepares students to perform successfully in public and private social-work agencies, offering a bachelor of science degree with a major in social work and a master of social work degree.

Course work presents the principles and skills of working with others who need help. The social work practice courses equip students with skills useful in preventing and treating a variety of human problems. The practice skills include data-gathering, differential assessment and planning, interaction, and evaluation. Experimental learning, simulation, role-playing, and volunteer experience are all integral to

the curriculum. Students take part in a field practicum that engages them in supervised direct service activities, providing practical experience in the application of the social work theory and skills acquired in the foundation courses.

CAREER OPPORTUNITIES

There is a growing need in our society for professional education and training of social workers at both the baccalaureate (B.S.W.) and graduate (M.S.W.) level. Although the M.S.W. is generally required for advanced practice, research, supervisory, and administrative positions, many challenging opportunities are open to those with a bachelor's degree in social work. B.S.W. graduates work in state and local government agencies and in private organizations, such as departments of human resources; children and family services; mental health, medical care, corrections, and substance abuse programs; and in nursing homes, housing, and community-based programs for the elderly.

RETENTION POLICY

To remain enrolled in the School of Social Work undergraduate program, pre-social-work students must maintain a 2.25 cumulative grade-point average. In addition. students must achieve a grade of *C* or higher in social work courses 275 and 383 to remain in the social work program. These two courses may not be repeated for eligibility for the major.

ACCREDITATION

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

ORGANIZATIONS

The National Association of Social Workers
Social Work Student Alliance

FOR FURTHER INFORMATION:

Chief Academic Adviser
School of Social Work
3 Quigley Hall, Room
Telephone: 618 453-1235

Pre-Major Advisement Center

The Pre-Major Advisement Center is the academic home of students in the process of determining a major. The advisers know the requirements for all majors offered by the University and are prepared to assist students in exploring and selecting a major. Advisers are available for academic counseling and advisement by appointment throughout each semester. There is also an adviser available at selected times each day for problem solving on a walk-in basis. The Pre-Major Advisement Center is located in Woody Hall, Wing C. Call 618 453-4351 for more information.

Center for Basic Skills

The Center for Basic Skills provides access to the University and focused academic and developmental support services for a select group of entering freshmen who may be successful if they are given supplementary support. Services offered by the program include a credit-orientation/learning skills course, academic advisement, counseling, peer counseling, and tutorial assistance. Students interested in this program should direct inquiries to the Director of the Center for Basic Skills, 618 536-6646, or to New Student Admissions Services.

The Graduate School

The Graduate School is concerned with graduate instruction and research at SIUC, and therefore plays an essential role in developing instructional and research programs, acquiring funds, and procuring facilities to encourage and support research by members of the scholarly community. Through students who meet the Graduate School's high standards of academic achievement, and faculty and students who achieve significant advances in their research, the Graduate School makes its contribution to the public welfare here and throughout the world.

The Graduate School offers master's degrees through 59 programs and doctor's degrees through 28 programs. Under the leadership of a graduate faculty of over a thousand members, research and study by approximately 3,700 graduate students is promoted. 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.)
Administration of Justice
Agribusiness Economics
Agricultural Education & Mechanization
Animal Science
Anthropology
Applied Linguistics
Art (M.F.A.)
Behavior Analysis and Therapy
Biological Sciences
Business Administration (M.B.A.)
Chemistry
Cinema and Photography (M.F.A.)
Civil Engineering and Mechanics
Communication Disorders and Sciences
Computer Science
Curriculum and Instruction
Economics
Educational Administration
Educational Psychology
Electrical Engineering
English
Food and Nutrition
Foreign Languages & Literatures
Forestry
Geography
Geology
Health Education
Higher Education
History
Journalism
Manufacturing Systems
Mathematics
Mechanical Engineering & Energy Processes
Microbiology
Mining Engineering
Music (M.M.)
Pharmacology
Philosophy
Physical Education
Physics
Physiology
Plant Biology
Plant and Soil Science
Political Science
Psychology
Public Administration (M.P.A.)
Recreation
Rehabilitation Administration and Services
Rehabilitation Counseling
Social Work (M.S.W.)
Sociology
Special Education
Speech Communication
Teaching English to Speakers of Other Languages
Telecommunications
Theater (M.F.A.)
Workforce Education and Development
Zoology

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

Anthropology
Business Administration (Doctor of Business Administration)
Chemistry
Curriculum and Instruction
Economics
Educational Administration
Educational Psychology
Engineering Science
English
Geography
Geology
Health Education
Historical Studies
Journalism
Mathematics
Microbiology
Pharmacology
Philosophy
Physiology
Plant Biology
Political Science
Psychology
Rehabilitation
Sociology
Special Education
Speech Communication
Workforce Education and Development
Zoology

The Graduate School, as a part of Southern Illinois University at Carbondale, is fully accredited by the North Central Association of Colleges and Schools and by various other professional and academic accrediting organizations. Information on specific graduate programs can be obtained by contacting the appropriate department directly. Information about unclassified (non-degree-program affiliated) status can be obtained by contacting the Graduate School, SIUC, Carbondale, Illinois 62901-4716. Telephone: 618 536-7791.

School of Law

The Southern Illinois University School of Law, established in 1973, is a small law school with roughly 340 students—approximately 120 students enter the school each fall. The student/faculty ratio of 15:1 ranks among the best in the United States. The school is housed in a spacious, modern building that contains classrooms, a law library, a legal clinic, faculty offices, an auditorium, and student lounges. The school is fully accredited by the American Bar Association and is a member of the Association of American Law Schools.

The School of Law offers an extensive curriculum, emphasizing skills in courses such as legal writing and research, transactional drafting, legal argumentation, and trial advocacy. The school has an active moot court program and a unique legal clinic in which upperclass students gain practical experience in civil cases under the supervision of the clinic director. The school is a leader in the fields of environmental law, health law, and international law. The school's Moot Court teams have won national championships in several different areas, and have never placed lower than second in the All-Illinois Competition.

In cooperation with the Graduate School, the School of Law offers concurrent juris doctor and master's degrees in business administration, public administration, and accountancy. It is one of a handful of schools to offer a joint J.D./M.D. degree, which it does in conjunction with the SIU School of Medicine. The law library contains over 300,000 volumes—more than are in over 50 percent of academic law li

braries in the country—as well as two computer-assisted research systems (LEXIS and Westlaw). It also features a computer lab. All law students have keys to the building, which gives them 24-hour access to the law library.

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

Assistant Dean for Admissions and
Student Affairs
School of Law
Southern Illinois University at Carbondale
Carbondale, Illinois 62901-6804

NOTE: Information on undergraduate preparation necessary for schools of law is given under "Pre-Law," p. 178.

School of Medicine

The Southern Illinois University School of Medicine was established in 1970 to assist the people of central and southern Illinois in meeting their present and future health needs through education, research, and service. The school's emphasis is on training primary care physicians, but it encompasses a complete sequence of programs that begins with undergraduate medical education and progresses through residency training and continuing education for practicing physicians.

The training of medical students starts with the first year of the basic sciences, taught in Carbondale. The next three years, increasingly more clinical in content, are spent in Springfield. A problem-based learning curriculum is available to some students during their first two years of medical education. The medical school also offers a six-year joint MD/JD degree program in conjunction with the SIUC School of Law.

Initial clinical activities are offered in Memorial Hospital of Carbondale and the Veterans Administration Hospital of Marion, and continue in St. John's Hospital and Memorial Medical Center in Springfield, among other facilities. Extensive basic and clinical research is conducted on both campuses.

Inquiries on admission should be addressed to:

Erin Coil, Director of Admissions
School of Medicine
Southern Illinois University
P.O. Box 19230
Springfield, IL 62794-9230

Asst. Dean of Students
Lindegren Hall
School of Medicine
Southern Illinois University
Carbondale, IL 62901-6503

NOTE: Information on undergraduate preparation necessary for schools of medicine is given under "Pre-Medicine," p. 179.

Aerospace Studies (Air Force ROTC)

Aerospace Studies is a voluntary course sequence that may lead to an officer's commission in the United States Air Force following graduation from the University. Students in all fields of study at SIUC are eligible to enter the Aerospace Studies program. Evidence of a bona fide baccalaureate degree from SIUC is essential to 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 the two-year membership in the POC. This full-time status may be at the undergraduate or graduate level.

GENERAL MILITARY COURSE (GMC—AS 100/200)

The General Military Course (GMC) is general in nature. Uniforms are provided and classes are taught, but the cadets are under no obligation to the government. Cadets who have successfully completed the GMC requirements, including completion of a course in English composition, may be selected to attend a voluntary four-week Field Training Course at an Air Force Base during the summer to qualify for entry into the Professional Officer Course.

PROFESSIONAL OFFICER COURSE (POC—AS 300/400)

Acceptance into the last two years of the program (POC) is competitive. Selection rests on successful completion of a physical examination and the Air Force Officer Qualifying Test (AFOQT) and on demonstrated leadership potential, physical fitness, and cumulative grade-point average. New students entering at this level are required to attend a six-week summer Field Training Course, normally during the summer following the successful completion of their sophomore year. Such students, and graduate students, should contact the SIUC AFROTC about exceptions to the rule. A course in mathematical reasoning must be taken before commissioning.

OBLIGATIONS

The GMC cadet is not obligated at any time. Cadets entering the POC must accept a commission in the United States Air Force following graduation, thereby accepting a military obligation.

PAYMENTS

GMC cadets are eligible to apply for an Air Force ROTC Illinois State Tuition waiver. GMC cadets will also receive payments during field training at the end of their sophomore year. POC cadets can receive $1,000 per semester for tuition, books, and fees. POC cadets also receive a monthly tax-free subsistence allowance (call AFROTC for the current amount) and are also paid for their field-training activities.

RETENTION

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

SCHOLARSHIPS

Air Force ROTC has two types of scholarships available. The first is the Federal Scholarship, which is awarded to highly qualified cadets for three or two years. These are directed almost exclusively at the engineering and science/technical fields of study. The second scholarship is funded by the state of Illinois and amounts to a tuition waiver for GMC and POC cadets. It is awarded for academic excellence and is available through the department to students enrolled/accepted into the ROTC program at SIUC, regardless of their academic major. Cadets who have attended Illinois state junior colleges and are currently enrolled in SIUC's ROTC courses may also be eligible for a tuition waiver. No military service obligation is incurred by accepting Illinois-funded tuition waivers.

COMMISSIONING PROGRAM FOR ENLISTED MEMBERS AND VETERANS

Qualified Air Force enlisted personnel enrolled in an SIUC resident center may enter the two-year (POC) AFROTC program in Carbondale. An enlistee must: be a U.S. citizen under 30 years of age with a minimum of 180 days of active duty; be able to attain an honorable discharge with a favorable reenlistment code; have qualifying scores on the AFOQT and a qualifying physical examination; be able to graduate within two years of entry in AFROTC at SIUC (full-time status); process successfully through the nearest AFROTC detachment.

Requests for clarification about this program may be addressed by mail or phone to the Carbondale AFROTC office.

AFROTC is available to veterans of all services within the Department of Defense (Army, Navy, Air Force, Marines).

SPECIAL NOTE TO COUNSELORS

This program is available to students in *all* majors. Applicants who want to become pilots, navigators, or missile officers may choose any academic major. 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.

EXTRA-CURRICULAR ACTIVITIES

Arnold Air Society is a private, professional service organization of AFROTC cadets and is an affiliate of the Air Force Association. The organization is self-administered but interfaces with the organizational structure of AFROTC. Arnold Air Society helps develop Air Force Officers, furthers Air Force traditions, supports aerospace power and its role in national security, and advances air and space age citizenship. Membership is composed of AFROTC cadets selected by their peers.

Army Military Science (Army Reserve Officers' Training Corps)

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

SCHOLARSHIPS

Numerous federal scholarships for two, three, and four years are available to qualified students. Illinois residents may be qualified for Illinois State ROTC scholarships, which pay for tuition and have no military obligation. Transfer students are qualified for transfer scholarships, which pay for tuition and have no military obligation.

BASIC COURSE

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

ADVANCED COURSE

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

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

PAYMENTS

All individuals who are contracted into the Advanced Course receive a $150 per month tax-free subsistence allowance.

RETENTION

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

PLACEMENT

We are able to guarantee placement into the Reserve Forces (Army Reserve, Army National Guard) for those students who do not desire active duty.

EXTRACURRICULAR ACTIVITIES

In addition to courses offered for academic credit, the Army Military Science program sponsors extracurricular activities. The Ranger Company is open to all Army ROTC students. The Pershing Rifles, a national organization, is open to all University students. The group maintains the Color Guard and the Drill Team that perform at home football and basketball games and march in numerous local parades and at the annual Mardi Gras parade in New Orleans. The Association of the United States Army is a national organization with membership open to all SIUC students. Members do service work for the VA Medical Centers and go to the Annual National Convention in Washington, DC.

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

Curriculum Guides

Accounting

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

Dr. Richard A. Rivers, Acting Director
Telephone 618 453-2289
232 Henry J. Rehn Hall

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

The bachelor of science degree program with a major in accounting meets the objectives of students considering professional positions as certified public accountants or as members of industry or government management teams. Building on fundamental knowledge developed in core courses and a restricted set of electives, students can select from a variety of other courses to gain in-depth knowledge about their particular areas of interest.

A field internship placement may be an important element in the program and is encouraged for interested students who meet the department's criteria. Students who qualify may arrange to work off campus, during the spring semester of the senior year, under the direction of a cooperating public accounting firm. While most of the work assignments are in the St. Louis and Chicago areas, some students have been assigned, at their request, in districts as far away as New Jersey and Texas. Students receive valuable work experience, a salary, and 3 hours of university credit under the internship program. Interns are selected by the School of Accountancy.

NOTE: The following is a *suggested* curriculum. For more specific information consult the *1996-97 Undergraduate Catalog.*

First Year		Fall	Spring
Select	Science[1]	3	3
Select	Fine Arts[1]	3	–
*PSYC 102	Introduction to Psychology[2]	–	3
Select	Humanities[1]	3	3
*ENGL 101,102	Composition I *and* Composition II[1]	3	3
*MATH 139	Finite Mathematics	3	–
*MATH 140	Short Course in Calculus	–	4
		15	16

Recommended, Second Year		Fall	Spring
Select	Integrative Studies[1]	3	3
Select	Human Health[1]	–	3
*SPCM 101	Introduction to Oral Communication	3	–
*ACCT 220	Financial Accounting[4]	3	–
*ACCT 230	Managerial Accounting[4]	–	3
*ACCT /MGMT 208	Business Data Analysis	3	–
*CS 212/ CIP 229	Introduction to Business Computing *or* Computing for Business Administration[3]	–	3
*ECON 241,240	Introduction to Macro- *and* Microeconomics[2]	3	3
*MGMT 202	Business Communications	–	3
		15	15

* Required course for a major in COBA.
1 See "University Core Curriculum," p. 39.
2 Fulfills a university core curriculum social science requirement.
3 Course will be approved by articulation agreement with each college.
4 A minimum grade of *B* is required as prerequisite to upper-division courses.

Third and Fourth Years

As declared accounting majors, students will take upper-level business courses that will prepare them for rewarding careers in accounting. These courses include the remaining core requirements and 24 hours in accounting.

Accounting 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. The school is accredited by the American Assembly of Collegiate Schools of Business (AACSB) and is a member of the Federation of Schools of Accountancy. See the College of Business and Administration listing for their retention policy and the 40-percent rule. A 2.50 grade-point average in SIUC accounting courses is required for graduation. A *C* or better is required in all upper-division accounting courses.

No minor required. No foreign language required.

Graduate degrees available: master of accountancy (M.Acc.), doctor of business administration (D.B.A).

Representative first job titles: accountant, accounting and fiscal administration career trainee, revenue collection officer, auditor, grants and contract officer, assistant controller, plant accountant, retail controller trainee, junior systems analyst, financial management trainee, internal auditor, accounting management trainee, property accountant, budget accountant.

Administration of Justice

College of Liberal Arts
(Bachelor of Arts)

Dr. James Garofolo, Director
Michael Harbin, Adviser
Telephone 618 453-5701
4248 Faner Hall

The bachelor of arts degree program in administration of justice meets the objectives of students considering careers in law enforcement, the courts, corrections, juvenile justice, criminal behavior, and other aspects of crime and criminal justice, as well as those of students preparing for graduate education in criminal justice or criminology.

The curriculum provides a broad view of crime and criminal justice. Building on fundamental knowledge developed in core courses and a restricted set of electives, students can select from a variety of other courses to gain in-depth knowledge about their particular areas of interest. Students may take supplemental courses—computer science, accounting, management, for example—to complement their special interests. This approach provides a sound foundation in administration of justice while allowing the flexibility needed to accommodate individual interests and needs.

A field internship placement may be an important element in the program and is encouraged for interested students who meet the department's criteria.

Students wishing to enter the administration of justice program must apply for admission to the major. The application must be approved by the director of the program. Admission requires a minimum grade point average of 2.25 based on at least 15 semester hours of college-level courses.

NOTE: The following is a *suggested* curriculum. For more specific information consult the *1996-97 Undergraduate Catalog.*

First Year		Fall	Spring
Select	Science[1]	3	3
Select	Social Science[1]	3	3
Select	Humanities[1]	3	3
ENGL 101,102	Composition I *and* Composition II	3	3
MATH 110/113	Non-Technical Calculus *or* Introduction to Contemporary Mathematics	3	–
AJ 201	Introduction to Criminal Justice System	–	3
		15	15

Second Year		Fall	Spring
SPCM 101	Introduction to Oral Communication[1]	3	–
Select	Fine Arts[1]	–	3
Select	Multicultural Studies: Diversity in the U.S.[1]	3	–
Select	Interdisciplinary Studies[1]	–	3
Select	Foreign Language	4	4
Select	Human Health[1]	2	–
AJ 290	Introduction to Criminal Behavior[2]	3	–
AJ 316	Introduction to Criminal Justice Research[2]	–	3
AJ 300-level	Select[2]	–	3
		15	16

[1] See "University Core Curriculum," p. 39.

[2] Students may substitute PSYC 323 or SOC 383 for AJ 301; POLS 340 for AJ 302; PSYC 211, SOC 312, or POLS 300 for AJ 316.

At least 15 of the credit hours applied toward completion of the requirements of a B.A. in administration of justice must have been earned in AJ courses offered at SIUC.

Administration of justice majors are encouraged to take the university core curriculum course AJ 203. However, AJ 203 can be counted toward the 33 hours in the administration of justice major only if the student fulfills the university core curriculum integrative studies: multicultural requirement with some course other than AJ 203.

Third and Fourth Years

During the last two years, students complete the remaining required courses and select other administration of justice courses consistent with their career objectives.

Administration of Justice as a Major

In addition to the university core curriculum, the College of Liberal Arts requires one year of a foreign language (we recommend Spanish); one course in English composition (English 290); one approved writing-intensive course; one science course with lab; and at least 40 hours of course work at the 300 or 400 levels.

A minor is required. Students must fulfill the requirements of the department offering the minor.

Graduate degree program available.

Representative first job titles: police officer, investigator, private security officer, corrections officer, prisoner classification interviewer, probation or parole officer, delinquency prevention specialist, juvenile intake officer, group home supervisor, outreach worker, rehabilitation counselor, social/behavioral researcher.

Advanced Technical Studies

College of Technical Careers
(Bachelor of Science)

Dr. Eileen Troutt-Ervin, Chair
Telephone 618 453-7263
126 Technical Careers Building

The bachelor of science degree program in advanced technical studies builds on students' previous technical education through a combination of core courses, departmental requirements, approved major electives, and SIUC university core curriculum requirements.

The degree program is a flexible, individually designed program of study emphasizing technical management for students with a broad range of technical education, interests, and experience. It is ideally suited for community college and technical institute graduates who hold occupationally-oriented associate degrees in fields such as automotive technology, architectural technology, commercial graphics, construction technology, drafting, electronic data processing, photographic technology, secretarial services, law enforcement, small-business management, and tool and manufacturing technology. It is especially useful to students who have entered career paths for which there are no traditional bachelor's degrees.

The advanced technical studies degree program focuses on managerial and supervisory skills for the technical and service professions. Graduates put these skills to work in such fields as construction, automotive service operations, computer information processing, office management, court reporting, architectural drafting/design, advertising, and small business technical and service operations.

Requirements for a Major in Advanced Technical Studies

First and Second Years

The first and second years are usually satisfied by an Associate of Applied Science (A.A.S.) degree, and students enter advanced technical studies as juniors. Students may also enter as freshmen or sophomores and receive their occupational training and/or university core curriculum from SIUC.

Students may also receive some credit for previous educational, military, and occupational experience. Credit is established by departmental evaluation. Field internships and independent study opportunities may be available on approval by the student's faculty adviser.

Third and Fourth Years

ATS core courses — 12 hours required

ATS 364	Work Center Management	3
ATS 416	Applications of Technical Information	3
ATS 383	Data Interpretation	3

One of the following:

ATS 332/ ATS 421	Labor Management Problems *or* Professional Development	3

University Core Curriculum Requirements

The 41–hour university core curriculum requirement may be satisfied by courses completed at any accredited college or university, credit received through CLEP, USAFI, DANTES, or proficiency examinations. For more information consult the *1996-97 Undergraduate Catalog.*

Students who have completed an A.A.S. degree may be eligible for the Capstone Option, which reduces the required university core curriculum hours from 41 to 30. The Capstone Option application must be on file by the end of the student's first semester at SIUC. Additional qualification requirements are detailed under "Capstone Option," p. 34.

Departmental Requirements / Approved Electives—24 Hours Required

Approved advanced requirements must include at least 15 hours of 300–400 level course work individually designed with students' faculty advisers. Nine of these 24 hours must be selected from Advanced Technical Studies 361, 362, 363, 426, 464, 483, or approved equivalents.

TOTAL: 120 hours

Representative first job titles: district sales and service manager, construction foreman, graphic artist, designer, project manager, team leader, project coordinator, technical manager, realtime writer, court reporter, office systems specialist.

Agribusiness Economics

(Agricultural Economics/Agribusiness)
College of Agriculture
(Bachelor of Science)

Dr. Steven E. Kraft, Acting Chair
Telephone 618 453-2421
226 Agriculture Building

The bachelor of science degree program in agricultural economics/agribusiness meets the objectives of students considering careers in the attractive business and public policy aspects of agriculture. Courses offered include agribusiness management, finance, marketing, prices, policy, farm management, economic development and natural resource management. To accomplish the objectives of providing students 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 College of Agriculture.

Two options are available in the agribusiness economics degree program: the *Agriculture Resource Management (ARM) option*, which provides a broad training in agriculture, and the *Applied Economics and Agribusiness (AEA) 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.

NOTE: The following is a *suggested* curriculum. For more specific information consult the *1996-97 Undergraduate Catalog.*

First Year		Fall	Spring
CHEM 140A	Chemistry [1]	4	–
*PLB115	General Biology (or equivalent)	–	3
Select	Social Science[2]	–	3
Select	Fine Arts[1]	–	3
ENGL 101,102	Composition I *and* Composition II	3	3
Select	Human Health[2]	2	–
*ABE 204	Introduction to Agricultural Economics[3]	–	3
ANS 121	Science of Animals that Serve Mankind *or* agricultural elective	3	–
ANS 122	Production and Processing Practices	1	–
MATH 110/113	Non-Technical Calculus *or* Introduction to Contemporary Mathematics[4]	3	–
		16	15

Second Year		Fall	Spring
Select	Social Science[2]	3	–
Select	Humanities[2]	3	3
SPCM 101	Introduction to Communication	–	3
*ACCT 220	Accounting I	–	3
*ECON 240,241	Introduction to Micro- *and* Macroeconomics	3	3
PLSS 200	Introduction to Field Crop Science *or* agriculture electives	3	–
Select	Electives	3	3
		15	15

* Required courses for a major in agricultural economics/agribusiness.
1 CHEM 140B is required in addition to 140A for ARM option.
2 See "University Core Curriculum," p. 39.
3 Fulfills a university core curriculum social science requirement.
4 MATH 108 is recommended for the AEA option.
5 Only ECON 241 Macroeconomics is required for ARM option.
6 Accounting, quantitative methods, or agriculture recommended. Two courses in accounting are required for AEA option.

Third and Fourth Years

The last two years of the agricultural economics/agribusiness curriculum are devoted to advanced courses in agricultural economics, agribusiness, economics, and business to meet the particular objectives of students. About 20 hours of free electives are included in the last two years of this curriculum.

Agribusiness Economics (Agricultural Economics/Agribusiness) as a Major

Students having an aptitude for social science, business, resource management, or agriculture will find the program interesting and challenging. Those transferring from community colleges can complete an agricultural/economics/agribusiness degree program in two years. Credit for internships is available. Internships typically occur over the summer but may be taken during any semester.

No minor required.

Class size 20–50; senior year 15–30.

Master's degrees available in agricultural economics and agricultural services.

Representative first job titles: agricultural sales, sales management, commodity merchandiser, agricultural program administrator, agricultural commodities inspector, farm loan officer, farm management, agricultural economist, agricultural management specialist, agricultural marketing specialist, agricultural market reporter, economic development specialist.

Agriculture General

(Agriculture Education Specialization)
College of Agriculture
(Bachelor of Science)

Dr. James Legacy, Professor
AGED Coordinator
Telephone 618 536-7733
154 Agriculture Building

The bachelor of science degree program in agriculture with an agriculture education specialization meets the objectives of students interested in certification as teachers of agricultural occupations. Students may specialize in one of the following areas: *agribusiness, power and machinery, horticulture*, and *agriculture resources*.

Students who major in general agriculture at SIUC may choose from an extensive list of courses, work closely with excellent teachers, and participate in many outstanding student activities. The curriculum is focused on four areas of specialization: education, information, mechanization, and production.

Not only are there excellent employment opportunities for agricultural education majors as teachers in high schools and community colleges; the breadth of training also provides educational background needed for adult training programs offered by high schools, colleges, extension services, and industry. Many international agricultural positions are open to persons with this training, which also provides the educational background sought by many agribusiness firms for sales and management training positions.

NOTE: The following is a *suggested* curriculum. For more specific information consult the *1996-97 Undergraduate Catalog*.

First Year		Fall	Spring
CHEM 106	Chemistry and Society[1,2]	–	3
PLB 115	General Biology [2]	3	–
Select	Social Science[3]	–	3
Select	Humanities[3]	–	3
*ENGL 101,102	Composition I *and* Composition II	3	3
MATH 108	College Algebra	3	–
HED 101/PE 101	Foundations of Human Health *or* Current Concepts of Physical Fitness[4]	2	–
AGEM 170	Physical Principles in Agriculture	–	4
ANS 121	Science of Animals that Serve Mankind	3	–
ANS 122	Production and Processing Practices	1	–
Select	Electives[5]	–	2
		15	18

Second Year		Fall	Spring
Select	Integrative Studies[3]	3	–
PSYC 102	Introduction to Psychology[4]	3	–
POLS114/ HIST 110	Introduction to American Government and Politics *or* Twentieth Century America[2]	–	3
Select	Fine Arts[3]	–	3
Select	Humanities[3]	3	–
SPCM 101	Introduction to Communication	3	–
ABE 204	Introduction to Agricultural Economics[2]	–	3
AGEM 314	Agricultural Information Programs	3	–
PLSS 200	Introduction to Crop Science	–	3
Electives[5]		–	3
		15	15

1 Students with background and interest in chemistry are advised to take a higher level of chemistry.
2 This course is required for the major and fulfills university core curriculum requirements.
3 See " University Core Curriculum," p. 39.
4 Fulfills both a teacher certification and a university core curriculum requirement. See "College of Education," p. 45.
5 Students should consult with agriculture counselor regarding options available for agriculture electives.

Third and Fourth Years

The last two years of the program concentrate on specific professional objectives and electives. Important: see "Teacher Education Program Admission Requirements," p. 14.

Agricultural Education as a Major

Students may select one of four agricultural specialty options for major emphasis. Information about these specialties may be secured from the department. Approximate class size 30. Methods and student teaching will be stressed junior and senior years. Courses in both the College of Agriculture and the College of Education are included.

No minor required. No foreign language required.

Master's degree available in agricultural education.

Agriculture General

(Agricultural Information Specialization)
College of Agriculture
(Bachelor of Science)

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

The bachelor of science degree program in agriculture with a specialization in agricultural information meets the objectives of students considering careers in the communication of information. Course work involves instruction in selected areas of agriculture, education, and communications. Areas of employment include agricultural extension, agricultural media, post-secondary educational institutions, and industry.

Students who major in general agriculture at SIUC may choose from an extensive list of courses, work closely with excellent teachers, and participate in many outstanding student activities. The curriculum is focused on four areas of specialization: education, information, mechanization, and production.

NOTE: The following is a *suggested* curriculum. For more specific information consult the *1996-97 Undergraduate Catalog*.

First Year		Fall	Spring
CHEM 106	Chemistry and Society[1,2]	–	3
*PLB 115	General Biology [2]	3	–
Select	Fine Arts[3]	–	3
Select	Humanities[3]	3	3
ENGL 101,102	Composition I *and* Composition II	3	3
*MATH 108	College Algebra	3	–
PHSL 201	Physiology and Health[3]	–	2
AGEM 170	Physical Principles in Agriculture	–	4
ANS 121	Science of Animals that Serve Mankind	3	–
ANS 122	Production and Processing Practices	1	–
		16	18

Second Year		Fall	Spring
*SOC 108/ PSYC 102	The Sociological Perspective[4] *or* Introduction to Psychology[4]	3	–
Select	Integrative Studies[3]	3	3
SPCM 101	Introduction to Communication	3	–
ABE 204	Introduction to Agricultural Economics[4]	3	–
AGEM 314	Agricultural Information Programs	–	3
PLSS 200	Introduction to Field Crop Science	–	3
Select	Electives	3	6
		15	15

* Required or strongly recommended courses for Agricultural Information Specialization.

1 Students with background and interest in chemistry are advised to take a higher level of chemistry.

2 Fulfills a university core curriculum science requirement.

3 See "University Core Curriculum," p. 39.

4 Fulfills a university core curriculum social science requirement.

Third and Fourth Years

The last two years of the program concentrate on specific professional objectives and electives.

Agricultural Information as a Specialization

This is a program for students with good language skills who like working with people.

No minor required. No foreign language required.

Approximate class size 30.

Master's degree available in agricultural education and mechanization.

Representative first job titles: agricultural communications specialist in newspaper, radio, television, advertising or agricultural photojournalism; agricultural microcomputer application specialist, assistant county extension adviser; product education specialist; assistant manager (farm supply business); agricultural industry representative; agricultural manager; sales representative.

Agriculture General

(Agricultural Mechanization Specialization)
College of Agriculture
(Bachelor of Science)

Dr. Robert L. Wolff, Chair
Telephone 618 536-7733
154 Agriculture Building

The bachelor of science degree program in agriculture with a specialization in agricultural mechanization meets the objectives of students interested in the application of technical knowledge and methods to the management of agricultural systems and enterprises. Course work provides understanding of the technical principles and processes used by businesses and agencies serving production agriculture, communication of information, and the effective management of resources. Excellent opportunities for employment and professional association exist in this field.

Students who major in general agriculture at SIUC may choose from an extensive list of courses, work closely with excellent teachers, and participate in many outstanding student activities. The curriculum is focused on four areas of specialization: education, information, mechanization, and production.

NOTE: The following is a *suggested* curriculum. For more specific information consult the *1996-97 Undergraduate Catalog.*

First Year		Fall	Spring
*CHEM 106	Chemistry and Society[1]	–	3
Select	Social Science[2]	3	–
ENGL 101,102	Composition I *and* Composition II	3	3
Select	Human Health[2]	2	–
AGEM 170	Physical Principles in Agriculture	–	4
*ANS 121	Science of Animals that Serve Mankind	3	–
*ANS 122	Production and Processing Practices	1	–
*MATH 108	College Algebra	3	–
Select	Physical Science	–	3
		15	13

Second Year		Fall	Spring
Select	Integrative Studies[2]	3	–
Select	Humanities[2]	3	3
Select	Fine Arts[2]	–	3
SPCM 101	Introduction to Communication	–	3
*ABE 204	Introduction to Agricultural Economics[3]	3	–
*PHYS 203a,b	College Physics	3	3
PLSS 200	Introduction to Crop Science	–	3
Select	Elective	2	–
		14	15

* Required or strongly recommended courses for agricultural mechanization majors.
1 Fulfills a university core curriculum science requirement.
2 See "University Core Curriculum," p. 39.
3 Fulfills a university core curriculum social science requirement.

Third and Fourth Years

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

Agricultural Mechanization as a Specialization

This is a specialization for students with an aptitude for and interest in technology.

An agricultural background is not required for study in the agricultural mechanization specialization. Internships are suggested for the summer terms.

No minor required. No foreign language required.

Class size 20–50; senior year 15–30. Department sponsors special workshops on campus.

Master's degree available.

Representative first job titles: agriculture business manager, farm machinery sales and service, power use adviser, agricultural commodities inspector, agricultural commodity warehouse examiner, agricultural industry's representative, farm manager, industrial relations specialist, industrial property management specialist, agricultural manager, agribusiness technician, soil and water conservationist.

Agriculture General

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

Dr. Robert L. Wolff, Chair
Chief Academic Adviser
Telephone 618 536-7733
154 Agriculture Building

The bachelor of science degree program in agriculture with a specialization in agricultural production meets the objectives of students considering production-related careers in farming and agricultural service businesses. Course work develops technical and managerial skills required for the culture of commodity crops, livestock, and enterprise management.

Students who major in general agriculture at SIUC may choose from an extensive list of courses, work closely with excellent teachers, and participate in many outstanding student activities. The curriculum is focused on four areas of specialization: education, information, mechanization, and production.

NOTE: The following is a *suggested* curriculum. For more specific information consult the *1996-97 Undergraduate Catalog.*

First Year		Fall	Spring
ZOOL 118	Principles of Animal Biology[1]	4	–
Select	Social Science[2]	–	3
Select	Humanities[2]	–	3
ENGL 101,102	Composition I *and* Composition II[1]	3	3
AGEM 170	Physical Principles in Agriculture	–	4
ANS 121	Science of Animals that Serve Mankind	3	–
ANS 122	Production and Processing Practices	1	–
MATH 108	College Algebra	3	–
CHEM 140a	Chemistry	–	4
		14	17

Second Year		Fall	Spring
Select	Integrative Studies[1]	–	3
Select	Humanities[2]	3	–
SPCM 101	Introduction to Communication	–	3
Select	Fine Arts[2]	–	3
Select	Human Health[2]	2	–
ABE 204	Introduction to Agricultural Economics[3]	–	3
AGEM 372	Agricultural Production Machinery	–	3
CHEM 140b	Chemistry [1]	4	–
PLB 200	General Plant Biology & Lab	4	–
PLSS 200	Introduction to Crop Science	3	–
		16	15

[1] Fulfills a university core curriculum science requirement.
[2] See "University Core Curriculum," p. 39.
[3] Fulfills a university core curriculum social science requirement and counts toward the major.

Agricultural Production as a Specialization

Requirements include a minimum of 24 semester hours of courses in four departments in the College of Agriculture plus additional elective courses in agriculture or forestry to complete a total of 32 semester hours. An additional 31 semester hours of electives are required and may be taken in agriculture or other areas of study.

No minor required. No foreign language required.

Representative first job titles: farmer, farm manager, soil conservationist.

Allied Health Careers Specialties

College of Technical Careers
(Associate in Applied Science)

Frederic Morgan
Telephone 618 453-7211
16 Technical Careers Building

NOTE: SIUC is not accepting new students into this program.

The associate in applied science degree program in allied health careers specialties is a highly individualized program that prepares graduates for service in medical facilities where they may be employed as single- or multi-competent technicians.

During the first year students take a common core of course work that includes physiology, human anatomy, medical terminology, English composition, speech, and college algebra. The remainder of the degree work is in specialty courses and in clinical studies based on the core course work. Most of the clinical studies will be completed off campus in health-care facilities.

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

Students in the clinical portion of the program should expect to spend approximately $135, in addition to tuition and fees, for materials, insurance, and uniforms for each clinical specialty area, and must furnish their own transportation to off-campus clinical experiences.

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

Also see: Radiological Technology and Respiratory Therapy.

Animal Science
(Equine Science Specialization)
College of Agriculture
(Bachelor of Science)

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

The bachelor of science degree program in animal science with a specialization in equine science meets the objectives of students considering careers in the horse industry. Students can augment their animal science studies with courses in other areas of agriculture or in related fields, such as business, communications, or physical sciences. This flexibility allows them to include in their education the agronomic, agricultural economic, and agricultural engineering phases of agriculture, pre-veterinary medicine, or business as related to animal production.

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

NOTE: The following is a *suggested* curriculum. For more specific information consult the *1996-97 Undergraduate Catalog.*

First Year		Fall	Spring
*ZOOL 118	Principles of Animal Biology[1]	4	–
Select	Social Science[2]	3	–
Select	Humanities[2]	–	3
ENGL 101,102	Composition I *and* Composition II	3	3
Select	Mathematics[2]	–	3
Select	Human Health[2]	–	2
*ANS 121	Science of Animals that Serve Mankind	3	–
*ANS 122	Production and Processing Practices of the Animal Industry	1	–
*ABE 204	Agribusiness Economics[3]	–	3
		14	14

Second Year		Fall	Spring
Select	Fine Arts[2]	–	3
Select	Humanities[2]	3	–
Select	Integrative Studies[2]	–	3
SPCM 101	Introduction to Communication	–	3
Select	Agriculture Electives	3	3
ANS 331	Physiology, Growth, and Development of Farm Animals	4	–
*CHEM 140a,b	Chemistry[1]	4	4
*PHSL 208	Physiology Lab	1	–
		15	16

* Required for the major.
[1] Fulfills a university core curriculum science requirement.
[2] See "University Core Curriculum," p. 39.
[3] Fulfills a university core curriculum social science requirement.

Third and Fourth Years

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

Animal Science as a Specialization

The animal science degree program is supported by extensive facilities for several species of livestock. Every student has the opportunity to get involved in work, research, or observation at the 2000-acre farm system that is the core of our animal science program, with special centers for beef cattle, dairy cattle, horses, and swine. Many students work at the livestock centers and laboratories to help defray the cost of education as well as to gain valuable experience. An intern course also enables students 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 the teaching staff have advanced degrees (Ph.D.).
Class size ranges from 20–60; senior year 10–30.
Graduate programs are available.

Representative first job titles: general manager, farm manager, trainer/assistant trainer, stallion or broodmare manager/assistant manager, equine health technician, assistant marketing director, superintendent of horses or herdsman, racetrack official, events manager, assistant manager.

Animal Science
(Production Specialization)
College of Agriculture
(Bachelor of Science)

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

The bachelor of science degree program in animal science with a specialization in production meets the objectives of students considering careers in the livestock industry. Students can also select courses in other areas of agriculture or in related fields, such as business, communications, or physical sciences. This selection allows students to include in their education the agronomic, agricultural economic, and agricultural engineering phases of agriculture, pre-veterinary medicine, or business as related to animal production.

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

NOTE: The following is a *suggested* curriculum. For more specific information consult the *1996-97 Undergraduate Catalog.*

First Year		Fall	Spring
ZOOL 118	Principles of Animal Biology[1]	4	–
Select	Social Science[2]	–	3
Select	Humanities[2]	3	3
ENGL 101,102	Composition I *and* Composition II	3	3
Select	Mathematics[2]	–	3
Select	Human Health[2]	–	2
ANS 121	Science of Animals that Serve Mankind	3	–
ANS 122	Production and Processing Practices of the Animal Industry	1	–
ABE 204	Agribusiness Economics[3]	–	3
		14	17

Second Year		Fall	Spring
Select	Fine Arts[2]	–	3
Select	Integrative Studies[2]	3	3
SPCM 101	Introduction to Communication	–	3
AG	Agriculture Electives	3	3
ANS 331	Physiology, Growth, and Development of Farm Animals	4	–
CHEM 140a,b	Chemistry[1]	4	4
PHSL 208	Physiology Lab	1	–
		15	16

[1] Fulfills a university core curriculum science requirement.
[2] See "University Core Curriculum," p. 39.
[3] Fulfills a university core curriculum social science requirement.

Third and Fourth Years

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

Animal Science as a Specialization

The animal science degree program is supported by extensive facilities for several species of livestock. Every student has the opportunity to get involved in work, research, or observation at the 2000-acre farm system that is the core of our animal science program, with special centers for beef cattle, dairy cattle, horses, and swine. Many students work at the livestock centers and laboratories to help defray the cost of education as well as to gain valuable experience. An intern course also enables students 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.).
Class size 20–60; senior year 10–30.
Graduate programs are available.

Representative first job titles: animal husbandman, animal physiologist, animal breeding expert, swine herdsman, animal industry representative, animal hygiene specialist, farm manager, dairy cattle manager, product evaluator, animal control biologist, livestock manager, animal nutrition specialist, poultry manager.

Animal Science

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

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

The bachelor of science degree program in animal science with a specialization in science and pre-veterinary medicine meets the needs of students planning to attend veterinary school or pursue graduate work in animal science. Students who complete this option qualify for the B.S. degree, meet the course requirements for admission to a veterinary medicine program, and acquire an excellent foundation for graduate work in animal science.

Most faculty members have advanced degrees (Ph.D.). Instruction, demonstration, and consultation are provided in dairy, horse, livestock, and poultry production, meats, and animal hygiene. Courses are offered in all phases of animal production and management including meats, animal hygiene, reproduction, animal breeding, and nutrition.

NOTE: The following is a *suggested* curriculum. For more specific information consult the *1996-97 Undergraduate Catalog.*

First Year		Fall	Spring
Select	Social Science[1]	–	3
ENGL 101,102	Composition I *and* Composition II	3	3
Select	Humanities[1]	–	3
Select	Human Health[1]	2	–
ANS 121	Science of Animals that Serve Mankind	3	–
ANS 122	Production and Processing Practices of Animal Industry	1	–
ZOOL 118	Principles of Animal Biology[2]	4	–
MATH 108,109	College Algebra *and* Trigonometry	3	3
Select	Electives	–	3
		16	15

Second Year		Fall	Spring
Select	Fine Arts[1]	–	3
Select	Humanities[1]	–	3
SPCM 101	Introduction to Communication	–	3
ABE 204	Agribusiness Economics[3]	3	–
ANS 331	Physiology, Growth and Development	4	–
CHEM 200,201	Introduction to Chemical Principles & Lab[2]	4	–
PHSL 208	Physiology Lab	1	–
PHYS 203a,b	College Physics	3	3
PHYS 253a,b	College Physics Lab	1	1
Select	Integrative Studies[1]	–	3
		16	16

[1] See "University Core Curriculum," p. 39.
[2] Fulfills a university core curriculum science requirement.
[3] Fulfills a university core curriculum social science requirement.

Third and Fourth Years

The last two years of the program concentrate on specialization requirements. Most of the agricultural courses for the major will be in animal science, but students can select courses from agronomy, horticulture, forestry, agricultural education, microcomputers in agriculture, agricultural mechanization, agribusiness and economics, and farm management.

Animal Science as a Specialization

The animal science major is supported by extensive facilities for several species of livestock. Every student has the opportunity to get involved in work, research, or observation at the 2000-acre farm system, the core of our animal science program, which has special centers for beef cattle, dairy cattle, horses, and swine. Many students work at the various livestock centers and laboratories to help defray the cost of education as well as to gain valuable experience. An intern course also enables students 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.

Class size 20–60; senior year 10–30.

Graduate programs are available.

Representative first job titles: animal husbandman, animal physiologist, animal breeding expert, swine herdsman, animal industry representative, animal hygiene specialist, farm manager, dairy cattle manager, product evaluator, animal control biologist, livestock manager, animal nutrition specialist, poultry manager.

Anthropology

College of Liberal Arts
(Bachelor of Arts)

Dr. Prudence Rice, Chair
Telephone 618 536-6651
3525 Faner Hall

The bachelor of arts degree program in anthropology meets the objectives of students considering careers in teaching, research, archaeology, museums and archives, linguistics, personnel or social work, and business. A variety of courses in four sub-fields—archaeology, physical anthropology, linguistics, and sociocultural anthropology—present a broad view of the field.

Resources for anthropology students include a large university library, the University Museum, a fully equipped computer center, the Center for Archaeological Investigations, and 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. Members 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.

NOTE: The following is a *suggested* curriculum. For more specific information consult the *1996-97 Undergraduate Catalog.*

First Year		Fall	Spring
Select	Science[1]	3	3
Select	Social Science[1]	3	3
Select	Humanities[1]	3	3
ENGL 101,102	Composition I *and* Composition II[1]	3	3
Select	Fine Arts[1]		3
Select	Human Health[1]	2	–
		14	15

Second Year		Fall	Spring
Select	Mathematics[1]	–	3
Select	Multicultural Diversity in the U.S.[1]	3	–
SPCM 101	Introduction to Oral Communication[1]	3	–
Select	Interdisciplinary Studies[1]	–	3
FL	Foreign Language[2]	4	4
ANTH 300a,d	Physical *and* Sociocultural Anthropology[3,4]	3	3
ANTH 300b/c	Linguistic Anthropology *or* Archaeology[4]	–	3
Select	elective	3	–
		16	16

[1] See "University Core Curriculum," p. 39.

[2] Two semesters (generally 8 hours) of a foreign language are required for all liberal arts students. Students intending to pursue a graduate education should realize that a foreign language would probably be required for graduate school admission; for these students two years of foreign language is recommended.

[3] Sociocultural Anthropology is central to major requirements and should be taken as soon as possible. Any two of 300A, B, and C may be taken the second year. All four must be taken as a requirement for the major.

[4] Grades below *C* in anthropology courses will not be accepted as fulfilling major requirements.

Anthropology as a Major

The core of the program is a set of four courses that introduce the basic questions and issues of the subfields and the methods and techniques used to address them. The core is supplemented by specialty courses that cover 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 provide actual experience in the laboratory and the field, and there is a practicum in museum studies.

Undergraduates are encouraged to get involved in anthropology outside the classroom. Students often work on varied field and laboratory research projects, and an archaeology field school is offered every summer. The undergraduate Anthropology Club sponsors such activities as trips to nearby archaeological sites, lectures, and an annual picnic. 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 preparation, archival worker.

Architectural Technology

College of Technical Careers
(Associate of Applied Science)

Norman L. Lach
Program Representative
Telephone 618 453-1128
410 Quigley Hall

An associate of applied science degree program in architectural technology will meet the objectives of students considering careers in support of architecture or other aspects of the construction industry. Courses are a balance of design/theory and production/technology.

Bachelor of Science Degree Option: After completing the associate of applied science degree in architectural technology it is possible to earn a bachelor of science degree in advanced technical studies (major concentration in architectural studies) or other related fields, such as interior design, engineering, and education. The Illinois Department of Professional Regulation recognizes the B.S. degree in advanced technical studies, combined with the A.A.S. degree in architectural technology, as awarded by Southern Illinois University at Carbondale, to be a pre-professional degree in architecture. Graduates with both degrees, who have acquired five years of qualifiable architectural experience/training, qualify to take the Architect Registration Examination (A.R.E.) in Illinois.

NOTE: The following is a *suggested* curriculum. For more specific information consult the *1996-97 Undergraduate Catalog.*

First Year		Fall	Spring
ENGL 101,102	Composition I *and* Composition II	3	3
SPCM 101	Introduction to Oral Communication	–	3
ARCH 111	Architectural Drafting	6	–
ARCH 112	Architectural Graphics	3	–
ARCH 113	Architectural History	3	–
ARCH 124	Architectural Drawings I	–	5
ARCH 125	Architectural Design I	–	4
IMS 125	Technical Mathematics with Application	4	–
IMS 126	Technical Physics	–	4
		19	19

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

Electives		
ARCH 315	Architectural Design IV	4
ARCH 316	Architectural Structures III	3
ARCH 318	Architectural CADD I.	3
ARCH 324	Architectural Drawings IV	4
ARCH 328	Architectural CADD II	3
ARCH 338	Architectural CADD III	3
ARCH 371	Lighting and Acoustical Systems	3
ARCH 372	Mechanical and Plumbing Systems	3
ARCH 471	Professional Practice	3

A minimum grade of *C* is required for major drawing-and-design sequence courses in the architectural technology major.

A minimum of 74 hours of credit must be completed for graduation. Students should budget approximately $600 for equipment and supplies for the two-year program.

Architectural Technology as a Major

All faculty have extensive experience and educational backgrounds in architecture. Many are licensed architects and members of the American Institute of Architects and/or the Construction Specifications Institute. These experts are able to transmit to students a professional approach to the architectural and design professions; components of the construction industry; the design and production process; and the historical, mathematical, and physical factors involved in architecture. This program covers building materials, systems and construction, and preparation and interpretation of technical communications (architectural drawings and delineations).

Courses in computer-aided drafting and design use a variety of software with color and three-dimensional imaging to give students the widest possible preparation.

Some students choose to continue their education by applying to graduate schools of architecture.

Representative first job titles: architectural intern, inspector, specification writer, coordinator, work supervisor, estimator.

Art

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

Robert A. Paulson Director
School of Art and Design
Telephone 618 453-4315
109 Allyn Building

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

The bachelor of fine arts degree program meets the objectives of students interested in a particular studio discipline. 135 semester hours are required for graduation: 41 hours in University core curriculum, 15 hours in art history, and 75 hours in studio art.

NOTE: The following is a *suggested* curriculum. For more specific information consult the *1996-97 Undergraduate Catalog.*

First Year		Fall	Spring
Select	Science[1]	–	3
Select	Social Science[1]	3	–
ENGL 101,102	Composition I *and* Composition II	3	3
Select	Mathematics[1]	3	–
AD 100a,b	Two-Dimensional *and* Three-Dimensional Design	3	3
AD 107	Fundamentals of Art	–	3
AD 110	Introduction to Drawing I	3	–
AD 120	Introduction to Drawing II	–	3
		15	15

Second Year		Fall	Spring
Select	Science[1]	3	–
Select	Social Science[1]	3	–
SPCM 101	Introduction to Oral Communication	–	3
AD 200	Introduction to Drawing III	3	–
AD 201	Beginning Painting	–	3
AD 203	Beginning Sculpture	3	–
AD 204/205/206	Beginning Ceramics, Metals, *or* Fibers	–	3
AD 207a,b	Introduction to Art History[2]	3	3
AD 300	Intermediate Drawing	–	3
		15	15

[1] See "University Core Curriculum," p. 39.

[2] All specializations in the School of Art and Design receive 3 hours of university core curriculum substitution for AD 207a.

Art as a Major

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

Studio courses will be evaluated for transfer credit on the basis of presentation of the work (or professional quality slides of it) executed in the course(s). Admission is based on a portfolio review to be conducted when students choose, generally during the particular semester in which 27 hours of major course work is completed.

The 135-semester-hour program requirement is in keeping with the professional emphasis of the bachelor of fine arts degree. An extra semester, or additional work during summer sessions, is usually required for completion of the degree program.

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

The School of Art and Design is accredited by the National Association of Schools of Art and Design.

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

Art

(Art History)
(General Studio)
College of Liberal Arts

(Bachelor of Arts)
(Art Education)
College of Liberal Arts

(Bachelor of Arts)
College of Education

(Bachelor of Science)

Robert L. Paulson, Director
School of Art and Design
Telephone 618 453-4315
109 Allyn Building

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

Jacquelyn Bailey
Chief Academic Adviser
Telephone 618 453-2354
135 Wham Education Building

The bachelor of arts and bachelor of science degree programs in art education prepare students to earn the Illinois Standard Special Certificate to teach art in grade levels kindergarten through twelve. Students learn studio practices, art history, basic art criticism, and aesthetics as these apply to the art classroom. The bachelor of arts degree program in general studio enables undergraduate students to acquire skill in studio practices in more than one studio area. The bachelor of arts degree program in art history provides knowledge of art history, a strong studio component, and understanding of aesthetics, which may lead to graduate studies, museum and gallery positions, and higher education instructional and research positions. The program contains 66 hours in art.

The art education program is a combination of studio art, art history, art education, and traditional education courses that prepares students for careers as art teachers in elementary and secondary schools. The direction of the program equips the graduate with the technical skills, historical understanding, and philosophical and practical theory to deal with traditional as well as contemporary trends in art education. Classroom observation is stressed early in the curriculum, and culminates in a student-teaching semester. Upon graduation, students will meet the requirements for teacher certification in Illinois. The program is fully accredited by the National Council for the Accreditation of Teacher Education (NCATE) and the Illinois State Office of Education.

NOTE: The following is a *suggested* curriculum. For more specific information consult the *1996-97 Undergraduate Catalog.*

First Year		Fall	Spring
Select	Science[1]	–	3
POLS 114/ HIST 110	Introduction to American Government and Politics *or* Twentieth Century America[1,2]	3	–
ENGL 101,102	Composition I *and* Composition II[1,2]	3	3
Select	Mathematics[1]	3	–
HED 101	Foundations of Human Health[1,2]	–	2
AD 100a,b	Two-Dimensional *and* Three-Dimensional Design	3	3
AD 107	Fundamentals of Art	–	3
AD 110	Introduction to Drawing I[7]	3	–
AD 120	Introduction to Drawing II[7]	–	3
		15	17

Second Year		Fall	Spring
Select	Science[1]	3	–
POLS 114/ HIST 110	Introduction to American Government and Politics *or* Twentieth Century America[1,2]	–	3
PSYC 102	Introduction to Psychology[1,2]	3	–
SPCM 101	Introduction to Oral Communication[1]	–	3
AD/FL	Introductory Studio *or* Foreign Language[3,4,5]	3/4	–
AD/FL	Introductory Studio *or* Foreign Language[3,4,5]	–	3/4
AD/Select	Introductory Studio *or* Humanities[2,3,5]	3	3
AD 207a,b	Introduction to Art History[6]	3	3
		15/16	15/16

1 See "University Core Curriculum," p. 39.
2 See "College of Education," p. 45, for teacher certification requirements.
3 General studio students must take 21 hours of introductory studio courses in seven different media.
4 Art history requires 8 hours of French or German, and general studio requires 8 hours of a foreign language.
5 Art education students must take AD 201, Introduction to Painting; AD 203, Beginning Sculpture; AD 204, Beginning Ceramics; AD 205, Beginning Jewelry and Metalsmithing; and either AD 202, Introduction to Printmaking, or AD 206, Beginning Fibers.
6 All specializations receive 3 hours of university core curriculum substitution for AD 207a.
7 AD 120 not required for art history degree program.

During their third and fourth years students in art education take 28 hours of professional education courses and 20 hours of the following: art education courses (10 hours), art history courses (3 elective hours), and studio courses (6 elective hours). During their third and fourth years art history students take 39 hours from a rich variety of art history courses and 17 hours of liberal arts courses.

During their third and fourth years general studio students take the remaining introductory studio courses, 15 hours of intermediate studio courses in at least 3 media, 6 hours of advanced studio courses in 2 media, 3 hours of an art history elective, and 6 hours of liberal arts electives.

Art Education as a Major

Students may pursue art education in either the College of Liberal Arts or the College of Education. Students considering the major should become aware of the requirements for entrance into the teacher education program.

Art education students can pursue graduate programs in the College of Education in such areas as curriculum and instruction, educational administration, educational psychology, or higher education.

Automotive Technology

College of Technical Careers
(Associate of Applied Science)

James White
Program Representative
Telephone 618 453-4024
Carterville Campus

The associate in applied science degree program in automotive technology meets the many and varied occupational goals of our students. Graduates have obtained employment as service technicians, service advisers and writers, service managers, parts managers, and owners of independent repair centers.

First-year students are required to enroll in a series of core courses from which they can obtain and develop the skills and technical information considered essential to all service technicians. During the second year students may choose any four of seven possible areas. In most cases, these courses will deal with advanced instruction in areas covered in the core courses.

NOTE: The following is a *suggested* curriculum. For more specific information consult the *1996-97 Undergraduate Catalog.*

First Year		Fall	Spring
ENGL 101	Composition I	3	–
SPCM 101	Introduction to Oral Communication	–	3
AUT 101	Automotive Engines and Fuel Systems Lab	3.5	–
AUT 121	Basic Automotive Engines and Fuel Systems Theory	3	–
AUT 103	Brakes and Chassis Lab	3.5	–
AUT 123	Brakes and Chassis Theory	3	–
AUT 115	Related Shop Lab	1	–
AUT 105	Engine Electrical Lab	–	3.5
AUT 125	Engine Electrical Theory	–	3
AUT 107	Drive Trains Lab	–	3.5
AUT 127	Drive Trains Theory	–	3
IMS 125	Technical Mathematics with Application *or* equivalent	–	3/4
		17	19/20

Second Year		Fall	Spring
Select	Social Science[1]	–	3
IMS 126	Technical Physics	4	–
*AUT	Automotive Lab and Theory	13	10
ENGL 102	Composition II	–	3
		17	16

1 See "University Core Curriculum," p. 39.

* Select a 200- to 300-level automotive course: With the aid of an adviser and availability of courses, students must choose four areas of study (two per semester) from the following list of courses:

	Lab	Theory
Automatic Transmissions	AUT 201–3.5	AUT 221–3
Automotive Body and Chassis Electrical	AUT 203–3.5	AUT 223–3
Automotive Air Conditioning	AUT 204–3.5	AUT 224–3
Electronic Fuel and Emission Controls	AUT 205–3.5	AUT 225–3
Engine Service	AUT 208–3.5	AUT 228–3
Engine Electronics	AUT 209–3.5	AUT 229–3
Uni-body and Front Wheel Suspension and Brake Systems	AUT-302D-5	
Body And Chassis Electronics	AUT 301C-5	
Comfort Control Systems	AUT 301D-5	

Students are expected to provide tool kits containing both domestic and metric tools and supplies. The cost is approximately $700.

Automotive Technology as a Major

Students may choose to continue their education beyond the associate degree and obtain a bachelor's degree, more than doubling their occupational opportunities. Positions are available as manufacturer's district service manager, automotive instructor, technical writer, general service manager, and training center director, to name a few.

SIUC's automotive technology program is Master certified and meets the rigid standards of the National Institute for Automotive Service Excellence.

Automotive Service Educational Program

A Two-Year Associate Degree
Cooperative Program

ASEP Coordinator
Telephone 618 453-4024
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 designed by General Motors representatives and the SIUC automotive technology faculty. The program, which leads to an associate in applied science degree with a major in automotive technology, requires student attendance in the classrooms and laboratories of SIUC and cooperative work experience in GM dealerships.

The entire program takes 24 months. Approximately half the time will be spent acquiring a technical academic background at SIUC. The remaining time will be spent getting on-the-job experience at sponsoring GM dealerships. Each curriculum block will be followed immediately by a work block that reinforces the classroom learning. The success of the program depends on reinforcing learning and retention by having academic/laboratory and practical work experience closely aligned

Chrysler Dealer Apprenticeship Program

A Two-Year Associate Degree
Cooperative Program

CAP Coordinator
Telephone 618 453-4024
Carterville Campus

The Chrysler Dealer Apprenticeship Program (CAP) is a two-year technical program designed to provide highly competent automotive service specialists for Chrysler dealerships. The approved curriculum will be delivered in a format designed by Chrysler representatives and the SIUC automotive technology faculty. The technology requires student attendance in the classrooms and laboratories of SIUC and cooperative work experience in Chrysler dealerships.

The entire program takes 24 months. Approximately half the time will be spent acquiring a technical academic background at SIUC. The remaining time will be spent in on-the-job experience at sponsoring Chrysler dealerships. Each curriculum block will be followed immediately by a work block that reinforces the classroom learning. The success of the program depends on reinforcing learning and retention by having academic/laboratory and practical work experience closely aligned.

NOTE: The following is a *suggested* curriculum. For more specific information consult the *1996-97 Undergraduate Catalog.*

ASEP and CAP Curriculum

First Year		Credit	Hours	Weeks
AUT 103	Brakes and Suspension Lab	3.5	112	8
AUT 123	Brakes and Suspension Theory	3	48	8
AUT 125	Engine Electrical	3	80	4
AUT 229	Engine Electronics	3	80	4
ENGL 101	Composition I	3	48	16
IMS 125	Technical Mathematics with Application *or* equivalent	3/4	64	16
AUT 219	Co-Op Work Experience	6	680	17
AUT 221	Automatic Transmissions-Theory	3	42	7
AUT 201	Automatic Transmissions-Lab	3.5	98	7
AUT 121	Engine and Fuel Systems	3	100	5
SPCM 101	Introduction to Oral Communication	3	40	8
Select	Social Sciences[1]	3	40	8
		40/41	1432	

Second Year		Credit	Hours	Weeks
AUT 219	Co-Op Work Experience	6	760	19
AUT 223	Body & Chassis Electrical	3	80	4
AUT 224	Automotive Air Conditioning	3	80	4
AUT 205	Elec. Fuel & Emissions-Lab	3.5	112	8
AUT 225	Elec. Fuel & Emissions-Theory	3	48	8
ENGL 102	Composition II	4	48	16
IMS 126	Technical Physics	4	64	16
AUT 219	Co-op Work Experience at Dealership	4	480	12
		29.5	1672	

1 See "University Core Curriculum," p. 39.

Advanced Technical Automotive Studies Through Third-Year Specializations

Students who have successfully completed the associate in applied science degree in automotive technology at SIUC, a community college, or another accredited post-secondary institution, may pursue a third-year specialization in advanced technical automotive studies. These 300-level (junior year) automotive courses may also be applied toward a bachelor's degree, as long as other degree requirements have been completed. Two specializations are available.

Advanced Studies in Automotive Electronics

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

Advanced Studies in Automotive Power Trains

AUT 302C	Conventional & Front Wheel Drive Power Transmissions.	5
AUT 302D	Unibody & Front Wheel Suspension & Brake Systems	5

Each area of study in these specializations requires 20 clock hours of laboratory training per week for eight weeks. Prerequisite for these specializations is completion of the associate degree program or consent of the program coordinator.

Students also have the option of designing a course of study to meet their specific occupational goals as they earn a bachelor of science degree in advanced technical studies.

Bachelor of Science Degree Options at SIUC

The Automotive Technology program, in conjunction with the advanced technical studies program in the SIUC College of Technical Careers, offers a bachelor's degree for individuals who wish to combine automotive service skills with business and management skills.

This bachelor's degree is best suited to individuals who have completed an associate degree in automotive technology and have the desire to continue their education at SIUC. A minimum of two additional years (60 semester hours) is required to complete the program of study in automotive service operations, earning a bachelor of science degree in Advanced Technical Studies.

This program is open to individuals admitted to the University in good standing and to individuals already in the University with a GPA of 2.0 or better. Those without an associate degree in automotive technology may be admitted but would be required to follow a slightly different program of study.

Graduates of this program find employment in a variety of technical and management positions in the automotive service field. There are many job opportunities available with the automotive aftermarket industry, automotive dealerships, independent repair centers, and automotive manufacturers. Job titles include service adviser, service manager, technical representative, district service manager, technician, training instructor, field technical specialist, customer relations administrator, district sales manager, and parts sales manager.

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

For additional information write or call:

Automotive Technology
Mail Code 6895
College of Technical Careers
Southern Illinois University at Carbondale
Carbondale, IL 62901–6895
Telephone 618 453-6895
FAX 618 453-8483

Aviation Flight*

College of Technical Careers
(Associate in Applied Science)

Program Representative
Aviation Flight
Telephone 618 453-1147
Southern Illinois Airport

The associate in applied science degree program in aviation flight and bachelor of science degree program in aviation management meet the objectives of students seeking professional flight instruction and careers in aviation. Admission to SIUC's bachelor's degree program in aviation management normally requires completion of an SIUC associate degree or equivalent in a technical aviation curriculum. Therefore, first-year students who wish to pursue a bachelor's degree in aviation management must apply for admission to the aviation flight degree program. Transfer students with more than 26 semester hours of course work and previous flight experience should contact the aviation counselor to determine whether they can apply directly to the bachelor's degree program.

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

NOTE: The following is a *suggested* curriculum. For more specific information consult the *1996-97 Undergraduate Catalog.* Availability of post-associate courses is subject to the availability of instructional staff and equipment.

First Year		Fall	Spring
AF 200	Primary Flight Theory	3	–
AF 201	Flight—Primary	5	–
AF 202	Flight—Basic and Intermediate Theory	–	3
AF 203	Flight—Basic	–	5
ATA 101	Aircraft Systems	3	–
ENGL 101	Composition I	–	3
GEOG 330	Weather	3	–
IMS 125/ MATH 108	Technical Mathematics with Application *or* College Algebra	–	3/4
		14	14/15
Second Year			
AF 205	Flight—Instrument Theory	–	3
AF 204	Flight—Intermediate	5	–
AF 260	Reciprocation and Jet Airplane Systems	–	4
AF 206	Flight—Instrument	–	2
ATA 200	Electronics for Aviators	4	–
ENGL 102	Composition II	3	–
SPCM 101	Introduction to Oral Communication	3	–
PHYS 203a,253a/ IMS 126	College Physics *and* College Physics Lab *or* Applied Physics	–	4
		15	13
Summer Session			
AF 207a	Flight—Advanced	2	
AF 207b	Flight—Multi-Engine Operations	2	

* Also see Aviation Management.

Additional costs are incurred by students pursuing this degree. Students should plan on spending approximately $18,000 to obtain the flight certifications contained in this course work. These flight costs are in addition to tuition and fees, room and board, etc. Flight instruction required in the aviation flight curriculum includes the Private Pilot, Commercial/Instrument, and Multi-Engine licenses and ratings.

Aviation Flight as a Major

Aviation Flight is situated at Southern Illinois Airport, approximately five miles from the main campus. Some training flights are required at night, on weekends, and at other times when University transportation may not be available. For this reason exceptions to student vehicle restrictions will be provided for freshman and sophomore flight students who have their own transportation.

The SIUC Aviation Flight program is an FAA 141–approved certificated Pilot School with examining authority, providing comprehensive flight training that includes instruction for the most basic flight (Private Pilot) to the most advanced (Practicum in Air Carrier Operations).

Post-Associate Aviation Flight Courses

Additional courses are available for graduates of the associate degree program who want to become FAA certified single engine, multi-engine, and instrument flight instructors. Additional costs are associated with these courses.

Aviation Maintenance Technology

College of Technical Careers
(Associate in Applied Science)

M. George Mandis, Adviser
Telephone 618 536-3371
Southern Illinois Airport

The associate in applied science degree program in aviation maintenance meets the objectives of students preparing for employment in the aviation industry. Depending on their area of concentration, graduates are qualified to obtain the Federal Aviation Administration (FAA) Airframe and Powerplant certificate as A & P maintenance technicians.

Students study 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.

NOTE: The following is a *suggested* curriculum. For more specific information consult the *1996-97 Undergraduate Catalog.*

		Credit Hours	Lecture Hours/Wk	Lab Hours/Wk
First Semester				
ENGL 101	Composition I	3	3	0
MATH 108	College Algebra *or approved substitute*	3	3	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
		20	17	13
Second Semester				
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
		20	12	18
Third Semester				
ENGL 102	Composition II	3	2	0
AMT 203	Aircraft Aerodynamics	2	2	2
AMT 206	Metals Processing	3	2	3
AMT 214	Propellers	3	2	2
AMT 215	Powerplant Testing	5	3	4
AMT 216	Jet Propulsion Powerplant	6	4	4
		22	15	15
Fourth Semester				
Select	Social Science[1]	3	3	0
SPCM 101	Introduction to Oral 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
		20	13	13
Summer Session (8 weeks only)				
AMT 225	Aircraft Inspections	6	5	15
AMT 230	Powerplant Inspections	6	5	15
		12	10	30

[1] See "University Core Curriculum ," p. 39.

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.

Students entering the aviation maintenance technology program for the first time must purchase a basic tool kit and special study materials costing approximately $550.

Specialization in Helicopter Maintenance

In the past decade advances in technology and engineering have brought about the practical use of helicopters as a fast and economical mode of executive transportation on a door-to-door basis. Advances in the use of helicopters for heavy-lift work on construction projects and other commercial applications has proven its value and dependability.

A licensed airframe and power plant technician with advanced helicopter training will find new realms of job opportunities. In view of the complexity of the helicopter and its systems, the qualified helicopter technician can command top salary and benefits.

To meet the new demands of the aviation industry, the Department of Aviation Technologies offers courses in helicopter maintenance as a third-year elective of the AMT curriculum. The first semester deals with helicopter theory and general maintenance. The second semester involves the study of helicopter power trains and major component overhaul and inspection. All courses treat a variety of

makes and models of helicopters, including Bell, Sikorsky, Enstrom, and Hughes, among others. Classroom instruction is closely coordinated with laboratory experience on operational helicopters.

First Semester
Helicopter Theory and General Maintenance Practices
Maintenance Laboratory

Second Semester
Helicopter Power Train and Inspection
Helicopter Power Train Laboratory

Avionics Technology

Avionics technology, or aircraft electronics, is a rapidly growing field that requires technicians for the installation, maintenance, testing, and repair of airborne communication and navigation systems, airborne radar systems, integrated flight systems, and related equipment.

Through a series of specialized courses, students may pursue avionics technology training as post-associate degree electives in aviation maintenance technology or as specialization requirements incorporated into the bachelor of science degree programs in advanced technical studies or aviation management offered in the College of Technical Careers.

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.

The SIUC Aviation Maintenance Technology program is acclaimed by many branches of the aviation industry and government agencies as the best school of its kind in the nation. Students will work with state-of-the-art equipment and training aids, animated training panels, systems trainers, and computer training software covering a variety of jet aircraft. Included are the Boeing 707, 727, 737, 747 ,757, 767, and the Douglas DC 8, DC 9, DC 10, MD 11, and MD 80 aircraft. A fully operational DC 10 cockpit procedures trainer is also used for instruction.

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

An advisory committee that serves the program is made up of executives in the aviation industry.

Representative first job titles: A&P mechanic, maintenance technician.

Aviation Management

College of Technical Careers
(Bachelor of Science)

Willie Cave-Dunkel
Adviser
Telephone 618 453-8898
Technical Careers Building

The bachelor of science degree program in aviation management meets the objectives of students preparing for employment in the aviation industry with a major that builds on previous technical training in aviation maintenance, flight, avionics technology, air traffic control, aircraft operations support, or other aviation-related fields. The required technical training may be gained at SIUC or through other post-secondary institutions, proprietary schools, the military, government agencies (international or domestic), or government-certified flight or maintenance training schools.

Students entering the aviation management major are encouraged to complete the requirements of an aviation-related associate degree under the provision of the Capstone Option. As an alternative to an associate degree in aviation, students in aviation management should have aviation-related work experience, internship experience, or technical training. Finally, concurrent enrollment in aviation-related degree programs, internships, cooperative education, or technical training is required for those students not having prior aviation training, experience, or education.

Students who major in aviation management may participate in the following aviation management-related internship/cooperative education programs (all are part of a formal written agreement with the agency/company).

1. The United Airlines/SIUC Cooperative Education Program in Aviation Flight and Aviation Management.
2. Delta Airlines/SIUC Flight Operations Internship.
3. The Federal Aviation Administration–approved Airway Science Curriculum at SIUC.
4. The Federal Aviation Administration–approved Air Traffic Control Cooperative Education Program at SIUC.

Graduates of the aviation management program find professional, technical, and management positions in aviation manufacturing, airlines, general aviation, military aviation, and government agencies related to aviation.

Bachelor of Science Degree, College of Technical Careers

University core curriculum requirements		41
Requirements for major in aviation management		48
Core Requirements:		
	Advanced Technical Studies 364, 416, and two of the following: 332, 383, 421	12
	Fifteen hours selected from Aviation Management 360, 370, 371, 372, 373, 374, 375, 376, 377, 386, 401, 460	15
	Twelve hours selected from the following as approved by the adviser: Advanced Technical Studies 363; Aviation Management 319, 320, 350; or approved equivalent	12
	Nine hours of additional aviation management courses or adviser-approved specialization electives	9
	Approved career electives	31
		120

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:		6
AVM 385	Air Transport Labor Relations	3
ATS 383	Data Interpretation	3
AVM 402	Aviation Industry Career Development	3
		12

Aviation Management Specialization Requirements — 15 hours required

AVM 360	The Air Traffic Control System, Procedures, and Rules	3
AVM 370	Airport Planning	3
AVM 371	Aviation Industrial Regulations	3
AVM 372	Airport Management	3
AVM 373	Airline Management	3
AVM 374	General Aviation Operations	3
AVM 375	Legal Aspects of Aviation	3
AVM 376	Aviation Maintenance Management	3
AVM 377	Aviation Safety Management	3
AVM 386	Fiscal Aspects of Aviation Management.	3
AVM 401	Current Issues in Aviation Management.	3
AVM 460	National Airspace System	3

Aviation Management Specialization electives - 9 hours required. (Must be approved by adviser).
Internship, cooperative education, independent study, or approved equivalent - 12 hours required.
Approved career electives - 31 hours (A.A.S. in an aviation-related field preferred).
For more specific information consult the *1996-97 Undergraduate Catalog.*

Biological Sciences

College of Education*
(Bachelor of Science)

Jacquelyn Bailey
Chief Academic Adviser
Telephone 618 453-2354
135 Wham Education Building

A bachelor of science degree program in biological sciences meets the objectives of students considering a broad, yet intensive, education in the biological sciences to prepare for teaching biology at the secondary level and for various other careers. The work may be taken in either the College of Science or the College of Education. The science requirement for this concentration is the same in both colleges.

The biological sciences curriculum consists of courses selected from the microbiology, physiology, plant biology, and zoology departments. Students selecting biological sciences as their concentration do not need to take a secondary concentration.

NOTE: The following is a *suggested* curriculum. For more specific information consult the *1996-97 Undergraduate Catalog.*

First Year		Fall	Spring
HIST 110	Twentieth Century America[1]	–	3
Select	Humanities[2]	–	3
ENGL 101,102	Composition I *and* Composition II	3	3
SPCM 101	Introduction to Oral Communication	3	–
PLB 200	General Plant Biology and Lab[3]	–	4
MATH 111	Pre-Calculus[4]	5	–
ZOOL 220a,b	Diversity of Animal Life	4	4
		15	17

Second Year		Fall	Spring
POLS 114	Introduction to American Government and Politics[1]	3	–
PSYC 102	Introduction to Psychology	–	3
Select	English Elective in Humanities[2]	3	–
Select	Fine Arts[2]	3	–
HED 101/PE 101	Foundations of Human Health *or* Current Concepts of Physical Fitness	2	–
PLB 204	Plant Diversity and Lab	–	4
CHEM 200,201	Introduction to Chemical Principles *and* Lab[3]	4	–
CHEM 340,341	Organic Chemistry I *and* Lab	–	5
PHSL 310	Introductory Human Physiology	–	5
		15	17

* See "College of Education," p. 45, for teacher certification requirements.
1 Fulfills a university core curriculum social science requirement.
2 See "University Core Curriculum," p. 39.
3 Fulfills a university core curriculum science requirement.
4 Or Mathematics 108 and 109, or 140, or 141.

Biological Sciences as a Major

Courses required for teacher certification include: PSYC 102, Introduction to Psychology; POLS 114, Introduction to American Government and Politics; HIST 110, Twentieth Century America; ENGL 101, Composition I; ENGL 102, Composition II; SPCM 101, Introduction to Oral Communication; HED 101, Foundations of Human Health; and one additional English course. At least one three-semester-hour course must be taken in non-Western or Third World cultures from either humanities or social science.

A foreign language is not required.

Biological Sciences[1]

College of Science
(Bachelor of Arts)

Dr. DuWayne C. Englert, Director
Biological Sciences Program
Telephone 618 536-2032
148 Life Science II

The bachelor of arts degree program in biological sciences meets the objectives of students seeking a broad interdisciplinary program appropriate for the preprofessional student (premedicine, predentistry, etc.), for the student interested in environmental studies, and for the student preparing to teach biology at the secondary level. Students interested in teaching may enroll in either the College of Science or the College of Education, since the science requirements are the same in both colleges. Courses are selected from the offerings of the four life science departments (microbiology, physiology, plant biology, and zoology) to provide the breadth of training desired.

NOTE: The following is a *suggested* curriculum. For more specific information consult the *1996-97 Undergraduate Catalog.*

First Year		Fall	Spring
Select	Social Science[2]	3	–
Select	Humanities[2]	–	3
ENGL 101,102	Composition I *and* Composition II	3	3
Select	Human Health[2]	–	2
Select	Foreign Language[3]	4	4
MATH 108,109	College Algebra *and* Trigonometry[3,4]	3	3
ZOOL 220a,b	Diversity of Animal Life (Invertebrate, Vertebrate)	3	3
		16	18

Second Year		Fall	Spring
Select	Social Science[2]	3	–
Select	Humanities[2]	3	–
SPCM 101	Introduction to Oral Communication	3	–
Select	Integrative Studies[2]	–	3
CHEM 200,201	Introduction to Chemical Principles[3,5] *and* Lab	4	–
CHEM 340,341	Organic Chemistry *and* Organic Chemistry Lab		5
PLB 200	General Plant Biology[3]	4	–
PLB 204	Plant Diversity[3]	–	4
PHSL 310	Introductory Human Physiology[3]	–	5
		17	17

1 See also "College of Education", p. 45.
2 See "University Core Curriculum," p. 39.
3 Students in the College of Science must take one year of foreign language, one year of mathematics, 6 semester hours of physical sciences, and 6 semester hours of biological sciences.
4 MATH 111 or 141 may be substituted for MATH 108 or 109.
5 Fulfills a university core curriculum science requirement.

Third and Fourth Years

Majors in biological sciences should consult with the director and/or a College of Science adviser for the appropriate route to take in completing their third and fourth years, which should include the following: three additional hours in university core curriculum (Fine Arts and Integrative Studies), Microbiology 301, 302 (7 hours); any two of Biology 305, 306, 307, 308, or 309 (6 hours), and 6 hours of electives in any of the 400–level courses in microbiology, physiology, plant biology, or zoology.

Biological Sciences as a Major

The increasing complexity of the world and the nature of its problems emphasize the importance of the study of biology. The problems of the world that are most forcibly felt—population increase, nutrition, food production, energy supplies, medicine, sanitation, waste disposal, toxicities—are biological.

Biological sciences is an appropriate major for anyone who wants to teach in secondary schools, to serve as a researcher in industry, to pursue a preprofessional career in medicine or dentistry, or to seek employment as an environmental specialist. Some positions may require an advanced degree. An M.S. degree is available.

Representative first job titles: venereal disease investigator, aide-veterinary clinic, pharmaceutical sales, fisheries 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.

Business and Administration

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

Linda Seibert
Chief Academic Adviser
Telephone 618 536-4431
121 Henry J. Rehn Hall

The bachelor of science degree program in business and administration meets the objectives of students whose professional goals call for combining business course work with a secondary concentration from another University unit. Students considering management information systems can combine business with computer science or computer information processing; students considering actuarial careers can combine business with mathematics.

This combining of interests calls for custom-tailored programs. Business and administration requires business plus a secondary concentration of 20–23 semester hours of course work offered by other schools and colleges of the University. The outside field (or secondary concentration) must be consistent with a specific career objective or career development. Individual programs are subject to the approval of the dean of the College of Business and Administration.

NOTE: The following is a *suggested* curriculum. For more specific information consult the *1996-97 Undergraduate Catalog.*

First Year		Fall	Spring
Select	Science[1]	3	3
Select	Fine Arts[1]	3	–
*PSYC 102	Introduction to Psychology	–	3
Select	Humanities[1]	3	3
ENGL 101,102	Composition I *and* Composition II[1]	3	3
MATH 139	Finite Mathematics[3]	3	–
MATH 140	Short Course in Calculus	–	4
		15	16

Second Year		Fall	Spring
Select	Integrative Studies[1]	–	3
SPCM 101	Introduction to Oral Communication	3	–
*ACCT 220	Financial Accounting	3	–
*ACCT 230	Managerial Accounting	–	3
*ACCT/ MGMT 208	Business Data Analysis	3	–
*CS 212/ CIP 229	Introduction to Business Computing *or* Computing for Business Administration[4]	–	3
*ECON 241,240	Introduction to Macro- *and* Microeconomics[2]	3	3
*FIN 270	Legal & Social Environment of Business[4]	3	–
*MGMT 202	Business Communications	–	3
		15	15

* Required course for a major in COBA.
1 See "University Core Curriculum," p. 39.
2 Fulfills a university core curriculum social science requirement.
3 Fulfills the university core curriculum mathematics requirement.
4 Course will be approved by articulation agreement with each college.

Third and Fourth Years

As declared business and administration majors, students will take upper-level business courses, including the remaining core requirements, 12 additional credit hours in acceptable business-prefix course work, and at least 20 credits in the secondary concentration.

Business and Administration as a Major

It is strongly recommended that the courses listed above be completed prior to the junior year, because many of them are prerequisites to later requirements.

The department is accredited by the American Assembly of Collegiate Schools of Business (AACSB).

See "College of Business and Administration," p. 44, for the retention policy and the 40-percent rule.

Secondary concentration required. Foreign language not required.

Graduate degrees available: master of business administration (M.B.A.), master of accountancy (M.Acc.), D.B.A.

Business Economics

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

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

The bachelor of science degree program in business economics meets the objectives of students interested in general preparation for future managerial and staff assignments in a variety of business and public organizations. Offered through the College of Business and Administration, the business economics major emphasizes the application of economic concepts and the use of critical analysis in the solution of economic and managerial problems.

The program also prepares students for graduate study in economics as well as for the master of business administration (M.B.A.) degree. Students who propose professional careers as business and managerial economists are advised to complete one to four years of postgraduate study.

NOTE: The following is a *suggested* curriculum. For more specific information consult the *1996-97 Undergraduate Catalog.*

First Year		Fall	Spring
Select	Science[1]	3	3
Select	Fine Arts[1]	3	–
*PSYC 102	Introduction to Psychology	–	3
Select	Humanities[1]	3	3
ENGL 101,102	Composition I *and* Composition II	3	3
*MATH 139	Finite Mathematics[3]	3	–
*MATH 140	Short Course in Calculus	–	4
		15	16

Second Year		Fall	Spring
Select	Integrative Studies[1]	–	3
SPCM 101	Introduction to Oral Communication	3	–
*ACCT 220	Financial Accounting	3	–
*ACCT 230	Managerial Accounting	–	3
*ACCT/ MGMT 208	Business Data Analysis	3	–
*CS 212 /CIP 229	Introduction to Computing *or* Computing for Business Administration[4]	–	3
*ECON 241,240	Introduction to Macro- *and* Microeconomics[2]	3	3
*FIN 270	Legal & Social Environment of Business[4]	3	–
*MGMT 202	Business Communications	–	3
		15	15

* Required course for a major in COBA.
[1] See "University Core Curriculum," p. 39.
[2] Fulfills a university core curriculum social science requirement.
[3] Fulfills a university core curriculum mathematics requirement.
[4] Course will be approved by articulation agreement with each college.

Third and Fourth Years

Declared business economics majors will take upper-level business courses to prepare for exciting careers in the business economics area. These will include the remaining core requirements and 21 semester hours in business economics.

Business Economics as a Major

It is strongly recommended that the courses listed above be completed prior to the junior year, because many of them are prerequisites to later requirements.

The business economics program is accredited by the American Assembly of Collegiate Schools of Business (AACSB). See "College of Business and Administration," p. 44, for the retention policy and the 40-percent rule.

No minor or foreign language required.

Graduate degrees available: master of business administration (M.B.A.), master of accountancy (M.Acc.), D.B.A.

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.

Chemistry[1]

College of Education
(Bachelor of Science)

Jacquelyn Bailey
Chief Academic Adviser
Telephone 618 453-2354
135 Wham Education Building

The Department of Chemistry and Biochemistry undergraduate programs have a long and distinguished record of providing thorough training in theory and in practice. Three undergraduate degrees are offered, allowing students to select the program best suited to their future goals.

The bachelor of science degree program in education with a major in chemistry meets the objectives of students planning to become secondary-school chemistry teachers. Education is currently experiencing severe shortages of individuals trained in chemistry. Illinois, like many other states, has a great need for high school teachers with sound backgrounds in chemistry. There is national concern about the science training high schools are providing, and there will be strong pressure to improve the quality and number of chemistry teachers.

NOTE: The following is a *suggested* curriculum. For more specific information consult the *1996-97 Undergraduate Catalog.*

First Year		Fall	Spring
POLS 114	Introduction to American Government and Politics[3]	–	3
Select	Humanities[2]	3	3
ENGL 101,102	Composition I *and* Composition II	3	3
HED 101/ PE 101	Foundations of Human Health *or* Current Concepts of Physical Fitness[3]	–	2
CHEM 200,201	Introduction to Chemical Principles[4] *and* Lab	4	–
MATH 111	Pre-Calculus[3]	5	–
CHEM 210,211	General and Inorganic Chemistry *and* Lab	–	4
		15	15

Second Year		Fall	Spring
Select	Biological Science[2]	–	3
PSYC 102	Introduction to Psychology[3]	3	–
HIST 110	Twentieth Century America[2,3]	–	3
Select	English Elective in Humanities[3]	3	–
Select	Non-Western Civilizations[2,3]	–	3
SPCM 101	Introduction to Oral Communication	–	3
CHEM 230	Introduction to Quantitative Chemical Principles	5	–
MATH 150	Calculus I	4	–
PHYS 203a/253a	College Physics and Lab	–	4
		15	16

* See "College of Education," p. 45, for teacher certification requirements.

1 See "College of Science," p. 49.

2 See "University Core Curriculum," p. 39.

3 The following courses are required for teacher certification: PSYC 102, Introduction to Psychology; POLS 114, Introduction to American Government and Politics; HIST 110, History of the United States; ENGL 101, Composition I; ENGL 102, Composition II; SPCM 101, Introduction to Oral Communication; HED 101, Foundations of Human Health, or PE 101, Current Concepts of Physical Fitness; one additional English course. At least one 3-semester-hour course must be taken in non-Western or Third World cultures. University core curriculum science courses must include one laboratory class and both physical and biological sciences.

4 Approved substitutes for university core curriculum. For specific major requirements, see the *1996-97 Undergraduate Catalog.*

Chemistry as a Major

Students planning to teach in secondary schools should consult the teacher education program admission requirements on p. 14. The bachelor of science degree in the College of Education is designed for those who wish to become secondary school chemistry teachers. Those seeking this degree will take a minimum of 32 hours of chemistry, mathematics through calculus, and one year of physics (including laboratory). Additional courses in mathematics and a foreign language are recommended but not required.

Chemistry

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

Dr. Steve Scheiner
Department Chair
Telephone 618 453-5721
224 Neckers Building

The Department of Chemistry and Biochemistry undergraduate programs have a long and distinguished record for providing thorough training in theory and in practice. Two degrees are offered through the College of Science.

The bachelor of science degree program in the College of Science meets the needs of those preparing for graduate school or planning to be professional chemists. Two options in this degree are possible: a rigorous program that carries American Chemical Society (ACS) certification, and one with fewer hours that does not. ACS certification usually has little effect on students' marketability.

The bachelor of arts degree in the College of Science has been restructured around a core of courses followed by additional courses that lead to a specialization in biochemistry and business, environmental, or forensic chemistry.

NOTE: The following is a *suggested* curriculum. For more specific information consult the *1996-97 Undergraduate Catalog.*

First Year		Fall	Spring
Select	Humanities[1]	–	3
ENGL 101,102	Composition I *and* Composition II	3	3
BIOL	Biological Sciences (*not from university core*)[2]	3	3
CHEM 200,201	Introduction to Chemical Principles *and* Lab[2]	4	–
CHEM 210,211	General and Inorganic Chemistry *and* Lab[3]	–	4
CHEM 340,341	Organic Chemistry *and* Lab[3]	–	(5)
MATH 111	Pre-Calculus[4]	5	–
MATH 150	Analytic Geometry and Calculus	–	4
		15	18-22

Second Year		Fall	Spring
Select	Social Science[1]	3	–
SPCM 101	Introduction to Oral Communication	–	3
CHEM 210,211	General and Organic Chemistry *and* Lab[3] (*if not taken first year*)	(4)	–
CHEM 230	Quantitative Analysis[3]	4	–
CHEM 340,341	Organic Chemistry I *and* Lab[3,5] (*if not taken first year*)	5	–
CHEM 342,343	Organic Chemistry II *and* Lab[5]	–	5
CHEM 350[c]	Introductory Biochemistry[5]	–	4
MATH 250	Calculus II	–	3
Select	Foreign Language	4	4
		16–20	5–19

1 See "University Core Curriculum," p. 39.

2 Fulfills a university core curriculum science requirement.

3 A student may begin organic chemistry after one semester of general chemistry. That is, the student may take 340, 341 in the first year and take 210, 211 later. CHEM 210, 211 is needed for 230.

4 Fulfills a university core curriculum mathematics requirement.

5 A student may elect to take biochemistry after Organic Chemistry I or delay until later.

Some explanation of the course sequencing above is in order. Many of the chemistry courses have been restructured, and in many instances, renumbered. See the new catalog for course numbers and descriptions. A student is now offered a variety of options in which the sequence of lower-level courses may be taken. After completing CHEM 200, 201 a student may elect to take CHEM 210, 211 or to begin organic CHEM 340, 341. If the choice is to take 340, 341 the second semester, the student may continue with 342, 343 (second semester organic) or 350 (biochemistry) or 210, 211 (general and inorganic). Of course one can follow the traditional approach of 200, 201, 210, 211, 340, etc.

CHEM 115 will no longer be offered (a course for people who have not had high school chemistry). Students who normally take that course will be offered CHEM 140A, which is similar to 115 but will include some organic chemistry. The one-semester organic course 380A will be replaced by 340, 341, which will serve as a one-semester organic course as well as the first semester of a two-semester course. CHEM 226a,b, a two-semester five-hour course, has been replaced by 230, a one-semester 4-hour course.

Third and Fourth Years

The last two years of the program concentrate on specific professional objectives and on fulfilling any remaining university core curriculum requirements. What courses will be taken in chemistry will depend on the students' degree programs. All programs require a semester of biochemistry, an advanced inorganic chemistry course, and one to two semesters of physical chemistry. Details of the various programs are available from the chemistry and biochemistry department and will appear in the *1996–97 Undergraduate Catalog.*

Chemistry as a Major

Classroom instruction is provided by 23 faculty members, all with Ph.D. degrees. Our building is relatively new, and our teaching equipment is modern. We take pride in the quality of professional training available to our students. Those who are considering careers in research or college teaching will con-

tinue their education in an appropriate graduate school. Others may enter professional schools or select immediate employment in the industry. Chemists typically find work in private or government laboratories, and their activities may be in research and development, sales, or analysis and control of manufacturing processes.

Teaching Chemistry in Secondary School

The bachelor of science program in chemistry in the College of Education is in the process of being dropped, because there is little demand for the program. This will not deter students from teaching chemistry in a secondary school. Very few of the current teachers has a chemistry degree, and a student who majors or minors in chemistry and completes the necessary educational requirements will qualify to teach chemistry in a secondary school.

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 Mass Communication and Media Arts
(Bachelor of Arts)

Gary Kolb, Chairperson
Telephone 618 453-2365
1101 Communications Building

The visual and aural world of still and moving images 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, express, and communicate.

The bachelor of arts degree program in cinema and photography meets the objectives of students interested in professional and fine-arts applications of these visual media, 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 fulfill particular interests and career plans.

The master of fine arts degree (M.F.A.) in cinema and photography is also available.

NOTE: The following is a *suggested* curriculum. For more specific information consult the *1996-97 Undergraduate Catalog.*

First Year		Fall	Spring
Select	Science[1]	3	3
Select	Social Science[1]	–	3
Select	Humanities[1]	3	–
ENGL 101,102	Composition I *and* Composition II	3	3
Select	Mathematics[1]	–	3
SPCM 101	Introduction to Oral Communication	3	–
Select	Human Health[1]	2	–
Select	Fine Arts[1]	–	3
		14	15

Second Year		Fall	Spring
Select	Social Science[1]	–	3
Select	Humanities[1]	3	–
Select	Integrative Studies[1]	3	3
*CP 310/360	History of Still Photography *or* Film Analysis	3	–
*CP 311/368	Contemporary Photography *or* Introduction to Cinema Theory	–	3
*CP 320/355	Basic Photography *or* Film Production I	4	–
*CP 322/356	Color Photography *or* Film Production II	–	4
Select	Cinema and Photography electives	3	3
		16	16

*Requirements for cinema and photography major.

[1] See "University Core Curriculum," p. 39.

Students purchase supplies for many cinema and photography courses. A screening fee is assessed in courses that involve analysis and screening of a number of films. Lab and equipment rental fees may be required for certain other courses.

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.

Cinema And Photography as a Major

The SIUC Department of Cinema and Photography is recognized by national organizations as one of the leading departments in the country.

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

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

No minor required. No foreign language required.

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, multimedia specialist, film editor, production assistant, assistant sound recorder/mixer, lighting technician, independent filmmaker, independent producer, photojournalist, stylist, graphic arts technician, communications specialist, medical illustrator, teacher, screenwriter, cinematographer, production manager, assistant cinematographer, special effects photographer, film animator.

Civil Engineering

College of Engineering
(Bachelor of Science)

Dr. Sedat Sami
Telephone 618 536-2368
D23 Engineering Building

See also: Electrical Engineering, Mechanical Engineering, and Mining Engineering.

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

The bachelor of science degree program in civil engineering meets the objectives of students interested in one or more areas of specialization: *computational mechanics, structural engineering, hydraulic engineering, environmental engineering, surveying engineering,* and *geotechnical engineering.* Additional technical electives enable students to concentrate on specialty areas that support their career goals.

The civil engineering program at SIUC prepares men and women for professional careers in one or more specialty areas of civil engineering. Civil engineers take up positions with construction companies, consulting engineering and architectural firms; transportation, public utility and manufacturing companies; the aerospace industry; and governmental agencies on every level. They become involved in the planning, design, and construction of the nation's infrastructure and the physical facilities that improve and preserve our society: buildings, highways, bridges, hydraulic structures, transportation facilities, environmental engineering systems, and many others.

NOTE: The following is a *suggested* curriculum. For more specific information consult the *1996-97 Undergraduate Catalog.*

First Year		Fall	Spring
Select	Social Science [1,2]	–	3
Select	Humanities [1,2]	3	3
ENGL 101,102	Composition I *and* Composition II[1]	3	3
CHEM 200,201	Introduction to Chemical Principles *and* Lab	4	–
CHEM 210	General and Inorganic Chemistry	–	3
ENGR 102	Engineering Graphics	2	–
MATH 150,250	Calculus I[3] *and* II	4	4
		16	16

Second Year		Fall	Spring
Select	Fine Arts[1,2]	3	–
Select	Social Science[1,2]	–	3
Select	Humanities[1,2]	–	3
SPCM 101	Introduction to Oral Communication[1,2]	3	–
ENGR 222	Computational Methods for Engineers	2	–
ENGR 260a,b	Mechanics of Rigid Bodies (Statics *and* Dynamics)	2	3
MATH 251,305	Calculus III *and* Differential Equations I	3	3
PHYS 205a,b	University Physics[3]	3	3
PHYS 255a,b	University Physics Lab	1	1
		17	16

1 See "University Core Curriculum," p. 39. Transfer students without a baccalaureate-oriented associate degree will be required to take some specific university core curriculum courses. It is recommended that such students contact the College of Engineering advisement office for information on approved university core curriculum courses.

2 Accreditation standards require that students transferring with a baccalaureate-oriented associate degree will need 16 semester hours of social sciences, fine arts, and humanities; 6 or 7 semester hours of oral and written communications; and 32 semester hours of mathematics and basic science before graduation from SIUC. A 300-level social science or humanities course, building on a discipline already completed, must be taken at SIUC or at another senior institution. In general, this means that a maximum of 13 semester hours of social sciences, fine arts and humanities from a community college will be counted toward this 16–hour requirement.

3 Fulfills a university core curriculum requirement.

Transfer students from community colleges or other institutions should have strong backgrounds in the physical sciences, mathematics, social sciences, fine arts, and humanities. Students are encouraged to complete specific university core curriculum requirements that include 6 semester hours of English composition, 3 hours of speech, 8 hours of university physics, 7 hours of chemistry, 11–14 hours of mathematics, including calculus; two hours of engineering mechanics (statics), and two hours of graphics. Calculus is a prerequisite for most junior-level courses.

Representative First Job Titles: civil engineer, construction engineer, design engineer, environmental engineer, foundation engineer, geotechnical engineer, hydraulic engineer, stress analyst, structural engineer.

Classics

College of Liberal Arts
(Bachelor of Arts)

Dr. Thomas Keller, Chair
Department of Foreign Languages and Literatures
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, foreign language and international trade, French, German, Russian, and Spanish. Students majoring in a foreign language usually begin at the second- or third-year level. Students who have taken two years (or the equivalent) of one foreign language in high school may earn proficiency credit by taking a proficiency exam in Latin at SIUC Testing Services (618 536-4405) or in Chinese, Greek, Japanese, Russian, at the Department of Foreign Languages and Literatures. The foreign language department will honor CLEP exams in French, German, and Spanish. As an alternative, or for additional credit, students who can enter at the 200 course level or above are encouraged to take a validating course. Students can gain up to 16 hours of proficiency credit, which puts them in position to complete a double major.

NOTE: The following is a *suggested* curriculum. For more specific information consult the *1996-97 Undergraduate Catalog.*

First Year		Fall	Spring
Select	Science[1]	–	3
Select	Social Science[1]	3	3
Select	Fine Arts[1]	3	–
ENGL 101,102	Composition I *and* Composition II	3	3
Select	Mathematics[1]	–	3
Select	Human Health[1]	2	–
CLAS 133a,b/ CLAS 130a,b/ CLAS 202a,b/ CLAS 201a,b	Elementary Latin[2,3] *or* Elementary Classical Greek[2,3] *or* Intermediate Latin[2,3] *or* Intermediate Greek[2,3]	3/4	3/4
		14/15	15/16

Second Year		Fall	Spring
Select	Science[1,2]	3	3
Select	Humanities[1]	–	3
SPCM 101	Introduction to Oral Communication	3	–
CLAS	Classics Electives[4]	3/4	3/4
CLAS	Latin *or* Greek Language	3	3
Select	Integrative Studies[1]	3	3
		15/16	15/16

[1] See "University Core Curriculum," p. 39.
[2] See "College of Liberal Arts," p. 48, for specific requirements.
[3] Required by the major—two years of one language or one year of each.
[4] Required by the major (see *Undergraduate Catalog*).

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 while in residency at SIUC.

Students are advised not to enroll for elementary Greek and elementary Latin in the same semester.

Classics as a Major

A major in classics consists of 36 semester hours in courses on all levels. Electives must be approved by the classics adviser from offerings in classics and related disciplines. A minor in classics consists of 15 semester hours.

Representative first job titles: teacher, translator, simultaneous interpreter, consecutive interpreter, visitors' guide, communications specialist, public information officer, escort interpreter, conference interpreter, international relations officer, sales representative, writer, editor, publications staff, speech writer, archaeological worker, archival worker, museum curator, cultural studies specialist, researcher, exhibit preparation.

Clothing and Textiles

(Apparel Design)
Department of Workforce
Education and Development
College of Education
(Bachelor of Science)

Jacquelyn Bailey
Chief Academic Adviser
Telephone 618 453-2354
135 Wham Education Building

Sue Ridley
Coordinator
Telephone 618 453-3321
311 Quigley Hall

The bachelor of science degree program in clothing and textiles with a specialization in apparel design meets the objectives of students preparing 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 provides students with opportunities to develop individual skills and competencies.

NOTE: The following is a *suggested* curriculum. For more specific information consult the *1996-97 Undergraduate Catalog.*

First Year		Fall	Spring
Select	Science[1]	3	3
ECON 113	Economics of Contemporary Social Issues	3	–
Select	Humanities[1]	–	3
ENGL 101,102	Composition I *and* Composition II	3	3
Select	Human Health[1]	–	2
AD 101	Introduction to Art[1]	–	3
WED 336	Survey of Clothing	3	–
WED 338a	Beginning Clothing Construction	3	–
		15	14

Second Year		Fall	Spring
Select	Humanities[1]	3	–
PSYC 102	Introduction to Psychology	3	–
Select	Integrative Studies[1]	3	3
MATH 110/113	Non-Technical Calculus *or* Introduction to Contemporary Mathematics	–	3
SPCM 101	Introduction to Oral Communication	–	3
AD 110	Introduction to Drawing I	3	–
AD 206	Beginning Fibers	–	3
WED 337	Clothing for Consumers	3	–
WED 345a,b	Textiles	–	4
		15	16

[1] See "University Core Curriculum," p. 39.

Third and Fourth Years

If not completed at the junior-college level, WED 338a (Beginning Clothing Construction) must be taken during the first semester transfer students are at SIUC. Courses taken during the last two years will include the professional apparel design courses in the department and professional electives.

Clothing and Textiles as a Major

This specialization is intended for students interested in professional preparation in apparel design or allied design positions in either industrial or commercial fashion businesses. The courses available to students 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 courses in art, business, and other areas that will provide a suitable background for various career opportunities.

Representative first job titles: consumer market analyst, consumer relations officer, apparel designer, fashion coordinator, pattern 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[1]

(Retailing)
Department of Workforce
Education and Development
College of Education
(Bachelor of Science)

Jacquelyn Bailey
Chief Academic Adviser
Telephone 618 453-2354
135 Wham Education Building

Sue Ridley
Coordinator
Telephone 618 453-3321
311 Quigley Hall

The bachelor of science degree program in clothing and textiles with a specialization in retailing meets the objectives of students preparing for careers in retail stores as buyers or department managers or in personnel, training, inventory control, and security. Professional and free elective hours make it possible for students to choose the courses that support their career goals. The program is offered through the Department of Workforce Education and Development.

NOTE: The following is a *suggested* curriculum. For more specific information consult the *1996-97 Undergraduate Catalog.*

First Year		Fall	Spring
Select	Science[1]	3	3
PSYC 102	Introduction to Psychology	–	3
Select	Humanities[1]	3	3
ENGL 101,102	Composition I *and* Composition II	3	3
Select	Human Health[1]	–	2
WED 336	Survey of Clothing	3	–
		15	14

Second Year		Fall	Spring
Select	Integrative Studies[1]	3	–
ECON 113	Economics of Contemporary Social Issues	3	–
Select	Integrative Studies[1]	3	–
MATH 110/113	Non-Technical Calculus *or* Introduction to Contemporary Mathematics	–	3
SPCM 101	Introduction to Oral Communication[1]	–	3
AD 101	Introduction to Art	–	3
ACCT 210/220	Accounting Principles and Control *or* Accounting I	–	3
WED 337	Clothing for Consumers	3	–
WED 345a,b	Textiles	–	4
WED 347	Fashion Motivation	3	–
		15	16

[1] See "University Core Curriculum," p. 39.

Third and Fourth Years

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

Representative first job titles: consumer market analyst, consumer relations officer, apparel designer, fashion coordinator, pattern designer, tailor, clothing economist, fashion merchandising expert, advertising assistant, retail store manager, cost analyst, customer services specialist, sales agent, purchasing manager, marketing specialist, textile selector, textile laboratory assistant, customer relations specialist, pattern maker, industrial relations specialist, price economist, manufacturer's representative.

Commercial Graphics—Design

College of Technical Career
(Associate in Applied Science)

David J. White
Program Representative
Telephone 618 453-8863
Building 6721

The associate in applied science degree program in commercial graphics—design meets the objectives of students interested in the growing field of graphic design or advertising art, which presents a variety of employment opportunities for creative individuals. Professionals may produce story illustrations, advertising layouts, billboard design, point-of-purchase displays, package designs, direct mail pieces, annual report designs, television commercials, finished lettering, fashion illustrations, airbrush and photo-retouching, computer graphics, and many other applications.

Applicants are admitted to the University for the fall semester with a pre-commercial graphics design designation, and are then asked by the program to submit a portfolio of required examples and take part in a workshop. The 35 best-qualified students will be invited to enroll in the program. Counselors or art teachers may request a videotape (VHS 36:30) presentation or talk by a faculty member, time permitting. There is no charge for this service.

First Year		Fall	Spring
ENGL 101	Composition I	3	–
SPCM 101	Introduction to Oral Communication	–	3
*CG 109	Basic Photography for Graphic Design	2	–
CG 110a,b	Survey of Graphic Design	3	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
		15/20	16/21

Second Year		Fall	Spring
PSYC 102	Introduction to Psychology	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
ENGL 102	Composition II	3	–
		18	13

Electives		
CG 310a,b	Advanced Illustration for CG-D[1]	6
CG 312a,b	Advanced Airbrush/Tech. Illustration for CG-D[1]	6
CG 315	Advanced Dimensional Design for CG-D[1]	3
CG 320	Cooperative Education, Opportunities in CG-D	2-6
CG 350	Technical Career Subjects	1-32
CG 360	Advanced Computer Applications for CG-D[1]	3

* Elective

[1] Departmental offerings may vary each semester.

A minimum of 70 hours is required for this program.

For more information consult the *1996-97 Undergraduate Catalog.*

The national reputation of the program at SIUC requires that an individual submit a portfolio and attend a workshop (ask the program office for portfolio requirements). At the end of the workshop, applicants' work will be appraised and they will learn whether they have been accepted.

Students should expect to spend $1500–$2000 for supplies, equipment, and materials over a two-year period.

Commercial Graphics as a Major

Students in the commercial graphics degree program develop multiple art skills so that they may qualify for entry positions in many different areas of advertising art and design. Each individual has a base on which to build a career according to his or her own special interests and talents. Students are admitted to 300-level courses on the basis of the quality of the work they do in the first two years.

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

All faculty are professionals who have worked in agencies or studios and are adept in the practical aspects of graphic design, advertising art, and illustration.

Representative first job titles: graphic designer, layout artist, sketch artist, paste-on artist, package designer, freelance artist, illustrator, publication designer, airbrush illustrator, photo-retoucher, assistant to art director, production supervisor, computer graphics, freelance designer, technical illustrator, tv graphic artist, ad agency artist.

Communication Disorders and Sciences

(Clinical Specialization)
(Public School Specialization)
College of Education
(Bachelor of Science)

Kenneth Ruder, Chairperson
Telephone 618 453-4301
1003 Communications Building

The bachelor of science degree program in communication disorders and sciences meets the objectives of students preparing to work with children and adults whose speech, language, or hearing is impaired. The pre-professional undergraduate curriculum is broad in scope and presents students with the necessary background for the professional program, which is offered at the master's level. Both state and national certification require the Master of Science degree.

NOTE: The following is a *suggested* curriculum. For more specific information consult the *1996-97 Undergraduate Catalog.*

First Year — Non-Teacher Education Program		Fall	Spring
ENGL 101,102	Composition I *and* Composition II	3	3
PLB/ZOOL 115	General Biology	3	–
PSYC 102	Introduction to Psychology	3	–
Select	Mathematics[1]	3	–
Select	Fine Arts[1]	3	–
PHYS 101	Physics of Modern Communication	–	3
SPCM 101	Introduction to Oral Communication	–	3
ANTH 104	Human Experience—Anthropology	–	3
Select	Humanities[1]	–	3
		15	15

Second Year—Non-Teacher Education Program		Fall	Spring
CDS 301	Introduction to Speech-Language and Hearing Science[2]	3	–
Select	Humanities[1]	3	–
LING 201	Language Diversity in USA	3	–
PSYC 301	Child Psychology	3	–
PHSL 201	Physiology and Health	–	3
PSYC 211	Research Methods in Psychology	–	4
Select	Electives	3	6
Select	Interdisciplinary[1]	–	3
		15	16

First Year -- Teacher Education Program		Fall	Spring
ENGL 101,102	Composition I, Composition II	3	3
PLB/ZOOL 115	Biology	3	–
Select	Fine Arts[1]	3	–
Select	Mathematics[1]	3	–
PSYC102	Introduction to Psychology	3	–
PHYS 101	Physics of Modern Communication	–	3
Select	Humanities[1]	–	3
SPCM 101	Introduction to Oral Communication	–	3
HIST 110	Twentieth Century America	–	3
		15	15

Second Year -- Teacher Education Program		Fall	Spring
Select	English Literature[3]	3	–
POLS 114	American Government	3	–
Select	Science[1]	3	–
HED 101/PE 101	Foundation of Human Health *or* Current Concepts of Physical Fitness	–	2
CDS 301	Introduction to Speech-Language Hearing[2]	3	–
Select	Non-Western Civilization[4]	–	3
Select	Humanities[2]	–	3
PSYC 301	Child Psychology	–	3
Select	Elective	3	3
		15	14

[1] See "University Core Curriculum," p. 39.

[2] Students may take these courses in fall or as offered by the department.

[3] To meet the university core curriculum requirements for certification, the following university core curriculum courses must be taken: ENGL 101, 102; SPCH 101; MATH 110 or 113; PHYS 101, GEOL 110 or CHEM 106; PLB 115, 117, or ZOOL 115; Science elective; AD 301I, ENGL 308I*, FL 310I, 313I*, HIST 304I*, or PHIL 308I*; HIST 110; AD 101, HIST 201, MUS 103 or THEA 101; FL 101, HIST 101a*, b, PHIL 103a, b; ENGL 121 or 204; POLS 114; PSYC 102; ANTH 202, HIST 202, 210 or SOC 115; HED 101 or PE 101.

[4] Choose from HIST 101A, FL 313I, HIST 304, PHIL 308I.

Communication Disorders and Sciences as a Major

In the departmental major of 30 semester hours the third and fourth years present students with pre-professional training that relates to normal and disordered aspects of speech, language, and hearing. Graduate work is primarily devoted to training in differential diagnosis, assessment, and the management of communication disorders in clinical or school settings.

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, speech and hearing consultant.

Computer Science

College of Science
(Bachelor of Science)

Undergraduate Program Director
Telephone 618 453-6046
2128 Faner Hall

The bachelor of science degree program in computer science covers the major areas of computer science and meets the needs of students preparing for professional and technical careers in government and industry or graduate work leading to advanced degrees.

NOTE: The following is a *suggested* curriculum. For more specific information consult the *1996-97 Undergraduate Catalog.*

First Year		Fall	Spring
Select	Social Science[1]	3	–
Select	Humanities[1,2]	3	3
ENGL 101,102	Composition I *and* Composition II[1]	3	3
Select	Human Health[1]	2	–
CS 202	Introduction to Computer Science[3]	–	3
CS 215	Discrete Mathematics[3]	–	3
MATH 111	Pre-Calculus[4]	5	–
MATH 150	Calculus 1[3]	–	4
		16	16

Second Year		Fall	Spring
Select	Social Science[1]	–	3
Select	Lab Science[3,5,6]	3/4	3/4
SPCM 101	Introduction to Oral Communication	–	3
Select	Fine Arts[1]	3	–
CS 220	Programming with Data Structures[3]	3	–
CS 302	Computer Organization with Assembly Language Programming[3]	–	3
Select	a third English composition course[3]	3	–
MATH 221	Introduction to Linear Algebra[3]	–	3
MATH 250	Calculus II[3]	4	–
		16/17	15/16

1 See "University Core Curriculum," p. 39.
2 PHIL 105 Elementary Logic is recommended.
3 Required by the major.
4 Fulfills a university core curriculum mathematics requirement.
5 Consult with the department's undergraduate program director for the approved list of laboratory science courses.
6 Fulfills a university core curriculum science requirement.

Computer Science Courses: CS 202 is a first course in programming using the language PASCAL. CS 220 is a data structures course which also uses PASCAL. CS 302 is an intensive course in assembly language programming. CS 215, a discrete mathematics course, is a prerequisite to 220. CS 220 is a prerequisite to CS 302.

Mathematics Courses: The basic calculus requirement for a B.S. degree in Computer Science is 8 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 students with insufficient background must take a pre-calculus course such as MATH 111 before taking MATH 150 and CS 215.

Science Courses: The department requires a two-semester sequence of laboratory science courses chosen from an approved list maintained by the department's undergraduate program director. A correctly chosen sequence also satisfies the College of Science physical science requirement. Two biological science courses are also required. Some of these courses may substitute for university core curriculum requirements.

Computer Science as a Major

The curriculum covers programming, computer hardware and software systems, simulation, graphics, artificial intelligence, database systems, and computer applications to business and science. Advisers from the department guide students toward courses that will help them pursue their academic and professional interests.

Representative first job titles: applications 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.

Construction Technology

College of Technical Careers
(Associate in Applied Science)

Terry Owens
Program Representative
Telephone 618 453-4024
Carterville Campus

The associate in applied science degree program in construction technology meets the objectives of students preparing to enter the business of residential and commercial construction, which offers a multitude of opportunities in the areas of management and supervision.

The College of Technical Careers provides training planned to help graduates qualify for positions of responsibility in the fields of construction supervision, cost estimating, management, and building construction management.

First Year		Fall	Spring
ENGL 101	Composition I	–	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
IMS 125	Technical Mathematics	4	–
IMS 126	Applied Physics	–	4
		18	17

Second Year		Fall	Spring
SPCM 101	Introduction to Oral Communication	–	3
CST 105	Construction Codes, Specifications, Inspection and Safety	2	–
CST 210	Remodeling and Renovation	–	3
CST 125	Structural Mechanics I	3	–
CST 207	Construction Management	–	3
CST 209	Mechanical Systems	4	–
CST 212	Scheduling & Adv. Cost Estimating	–	3
CST 211	Commercial Construction	3	–
CST 225	Structural Mechanics II	–	3
IMS 120	Fiscal Aspects of Technical Careers	3	–
Select	Social Science *or* Humanities[1]	–	3
		15	18

[1] See "University Core Curriculum," p. 39. For more information consult the *1996-97 Undergraduate Catalog.*

The following advanced construction courses, beyond the A.A.S. requirement, are available during the summer term:

CST 303	Advanced Concrete Technology
CST 307	Computer Applications in Construction
CST 325	Quality Assurance in Construction

A minimum of 68 hours' credit is required for the associate degree.

Students will need to purchase small amounts of equipment and supplies.

Construction Technology as a Major

Students will learn the basic processes, procedures, and management techniques used in the construction industry, with emphasis placed on surveying, blueprint reading, properties of construction materials, and management. They will be able to understand construction details and working drawings and to produce an estimate derived from material cost, labor cost, overhead cost, and profit cost for residential and commercial construction. Students will be introduced to specification and code requirements pertaining to plumbing, heating, air conditioning, lighting, and structural features of a building. They will study labor relations and contract management, stressing the academic disciplines of communication skills, social sciences, physical sciences, and mathematics.

Students will participate in several laboratory classes in which they will apply the information gained in lecture classes to the processes and procedures of the construction process. Field trips to nearby construction projects will help them analyze and apply the principles learned in the classroom.

Many graduates of this program enter the construction industry in management positions. Others start their own construction businesses.

Representative First Job Titles: assistant project manager, assistant superintendent, estimator, purchasing agent, field engineer, quality control technician, scheduler, municipal building inspector, trade foreman, real estate agent, insurance agent, maintenance supervisor.

Dental Hygiene

College of Technical Careers
(Associate of Applied Science)

Shirley M. Beaver
Program Representative
Telephone 618 453-7213
18D Technical Careers Building

The associate in applied science degree program in dental hygiene meets the objectives of the student preparing to enter the health care profession as a licensed dental hygienist. Services provided by the dental hygienist are regulated by laws, which may vary among states. Most states allow the services of scaling and polishing of teeth, radiographic examination, patient education and nutritional counseling, application of cavity-preventing agents, and oral cancer and blood pressure screening. The clinical services provided by the dental hygienist are under the supervision of a licensed dentist.

A licensed dental hygienist may be employed in private practice dental offices, in school systems, in public health, in research, in administration and education, in government institutions, or as a commissioned officer in the armed services. Several states currently allow expanded duties and/or independent contracting in private practice. Employment opportunities are excellent and are projected to increase in the future.

The Dental Hygiene Admissions Committee evaluates applicants by reviewing ACT scores, rank in class, number of mathematics and science courses taken in high school and college (and the grades received), and overall college credit and earned GPA. Students may take any of the university core curriculum and science support courses (non-DH) from area colleges.

First Year		Fall	Spring
CHEM 106	Chemistry and Society	3	–
AHC 141	Anatomy and Physiology	4	–
MICRO 201	Elementary Microbiology	–	4
DH 126	Oral Anatomy and Tooth Morphology	3	–
DH 133	Histology and Embryology	–	2
DH 137	Pre-Clinical Dental Hygiene	5	–
DH 138	Pathology	–	2
DH 147	Preventive Dentistry	1	–
DH 208	Clinical Dental Hygiene	–	4
DH 211a	Seminar	–	1
DH 218a	Dental Radiology	2	–
DH 226	Anatomy of the Head and Neck	2	–
DH 218b	Dental Radiology	–	2
SOC108	Introduction to Sociology	–	3
		20	18

Summer Session (8 weeks)		
DH 209	Dental Hygiene Clinic	3
DH 211b	Seminar	1
DH 217	Dental Nutrition	2
DH 241	Periodontology	2
		8

Second Year		Fall	Spring
DH 240	Pharmacology	2	–
PSYC 102	Introduction to Psychology	–	3
SPCM 101	Introduction to Oral Communication	–	3
DH 201	Dental Materials	4	–
DH 238	Oral Pathology	2	–
DH 248,348	Dental Public Health and Community Dentistry *and* Practicum	2	2
DH 310a,b	Clinical Dental Hygiene *and* Radiology	6	6
DH 311a,b	Senior Seminar	1	1
DH 315	Ethics, Jurisprudence and Office Management	–	2
ENGL 101	Composition I	3	–
		20	17

It is recommended that CHEM 106, Chemistry and Society, or equivalent, plus ENGL 101, Composition, or equivalent, be completed prior to entering the dental hygiene program in the fall. If these courses are not completed students will be required to carry an overload during the first semester of the dental hygiene program.

A minimum of 83 hours is required for this program. For more information consult the *1996-97 Undergraduate Catalog.*

Dental Hygiene as a Major

This program is fully accredited by the Council on Dental Education of the American Dental Association. Available facilities restrict first-year enrollment to 36 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 for fall 1996 should be on file with the University and the program by January, 1996. Applications received later than this will be considered if space is available. Individual applications will be reviewed as they become complete. Applications are reviewed until the class is filled.

Dental hygiene students have expenses of about $2500, in addition to University tuition and fees, to cover the cost of instruments, uniforms, liability insurance, and a basic professional library, and they will spend time at the East St. Louis Dental Clinic for an off-campus clinical experience.

The dental hygiene courses may be applied toward a baccalaureate degree.

Representative first job titles: dental hygienist, researcher, health administrator, registered dental hygienist, dental hygiene educator, public health dental hygienist.

Dental Technology

College of Technical Careers
(Associate in Applied Science)

Dennis Laake
Program Representative
Telephone 618 453-7215
18B Technical Careers Building

Dental technology is concerned with the construction of replacements for natural teeth that have been lost through disease or accident. A technologist trained in this art is called a dental technician.

The associate in applied science degree program in dental technology meets the objectives of students preparing to work in dental offices or laboratories, where they fill dentist's prescriptions. 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.

The technical curriculum covers a complete study of dental morphology, fabrication of dental restorations and applicancies 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 an especially rewarding career. Job opportunities are excellent.

To prepare students for a socially complex world, the University requires that about a third of the course work be in university core curriculum.

First Year		Fall	Spring
PHYS101	Physics of Modern Communication	–	3
CHEM106	Chemistry and Society	3	–
ENGL 101	Composition I	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
SPCM 101	Introduction to Oral Communication	–	3
IMS 229	Computing for Business Administration	–	3
DT 113b	Science of Dental Materials	2	–
*DT 202	Dental Orthodontics & Periodontics	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
IMS 120	Fiscal Aspects of Technical Careers I	3	–
		19.5	19.5

* Five-week module.

Students should expect to spend about $1,000 over a two-year period for a dental kit, laboratory jacket, Delta Tau Club, and recognized graduate examination fee.

For more information consult the *1996-97 Undergraduate Catalog.*

Dental Technology as a Major

SIUC's is the second oldest dental technology program in the country, and the first of its kind in the state of Illinois, to be accredited by the Commission on Dental Accreditation of the American Dental Association. The program has maintained 'full approval' accreditation status since it was founded in the summer of 1956. A graduate of an accredited program has the best education it is possible to give in the allotted time.

The faculty is highly qualified, having enjoyed many years of experience in dental technology education and years of practical experience in the entire field. The program has excellent placement of its graduates in laboratories throughout the United States and foreign countries.

Representative first job titles: dental technician, sales representative, technical representative.

Design
(Product Design)
(Visual Communication)
School of Art and Design
College of Liberal Arts
Bachelor of Arts

Robert L. Paulson, Director
School of Art and Design
Telephone 618 453-4315
109 Allyn Building

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

The bachelor of arts degree program in design meets the objectives of students considering careers in product or visual design. Design is defined as "devising innovative courses of action to change existing situations into preferred situations." Translated into the objectives of the design program, this means that our goal is to develop in students the conceptual and design capabilities to cope effectively with multifaceted design problems. The faculty and students of the design program are part of the School of Art and Design.

NOTE: The following is a *suggested* curriculum. For more specific information consult the *1996-97 Undergraduate Catalog.*

First Year		Fall	Spring
Select	Science [1]	3	–
ENGL 101,102	Composition I *and* Composition II	3	3
MATH 113	Introduction to Contemporary Mathematics	–	3
Select	Human Health[1]	2	–
AD 100a,b	Two Dimensional *and* Three Dimensional Design	3	3
AD 107	Fundamentals of Art	–	3
AD 110,120	Introduction to Drawing I *and* II	3	3
		14	15

Second Year		Fall	Spring
Select	Social Science[1]	–	3
Select	Humanities[1]	–	3
SPCM 101	Introduction to Oral Communication	3	–
AD 207 a,b	Introduction to Art History[1]	3	3
AD 122/253	Drawing for Communication *(VC majors) or* Human Factors *(PD majors)*	3	–
AD 213/222	Basic Materials And Processes *(PD majors) or* Type as Image *(VC majors)*	3	–
AS 223/232	Rendering and Graphics *(PD majors) or* Graphic Reproduction (VC majors)	–	3
AD 249,263	2D/3D Presentation *(VC majors) or* Materials and Methods (PD majors)	–	3
AD 203/204/ 205/206	Beginning Sculpture, Ceramics, Metals, *or* Fibers (PD majors)		
Select	Science[1]	3	–
		15	15

[1] See "University Core Curriculum," p. 38.

[2] All specializations in the School of Art and Design receive 6 hours of university core curriculum substitution credit for AD 207a.

Third and Fourth Years

Courses taken during the third and fourth years will include additional design core, professional preparation, and elective courses.

Two options are available: *product design* and *visual communication*. AD 222 and 232 are prerequisites for the first of four courses in visual communication, which *must be taken in sequence*. The same is true for AD 213 and 263 in product design. If these courses are not available at the community college, students will need three years at SIUC to complete the degree. Studio courses will be evaluated for transfer credit on the basis of presentation of the work (or professional quality slides of it) executed in the course(s). Admission will be based on a portfolio review to be conducted by or before completion of AD 232 or 263.

Product Design as a Major

Product designers create articles that are useful, safe, economical, attractive, and appropriate for specific human needs. They visualize and develop a wide range of items, from simple tools to complex microelectronic hardware, rehabilitation equipment to transportation systems. Under faculty supervision, students learn to use the theories, techniques, and materials common to the profession for defining the problem, assessing the need, developing the solution, and creating the product.

Visual Communication as a Major

Graphic designers work in advertising, packaging, promotions, publication, and/or exhibition design for private industry, public concerns, or as free-lance designers. The program couples aesthetics with concept development, visualization techniques, a knowledge of tools and processes, and an understanding of message content, design methods, planning, and management.

Representative first job titles: designer, junior art director, art director, retouch artist/designer, comp' artist, illustrator, display designer, package designer, computer graphics designer/specialist, typographics designer, television storyboard artist.

Early Childhood

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

Jacquelyn Bailey
Chief Academic Adviser
Telephone 618 453-2354
135 Wham Education Building

Dr. Billy Dixon, Chair
Department of Curriculum and Instruction
Telephone 618–536-2441
327 Wham Education Building

The bachelor of science degree program in early childhood with a specialization in child and family services meets the objectives of students preparing for positions as nursery school directors or teachers in private schools and day care centers; directors or non-certified teachers 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.

NOTE: The following is a *suggested* curriculum. For more specific information consult the *1996-97 Undergraduate Catalog.*

First Year		Fall	Spring
Select	Science[1]	3	3
SOC 108	Introduction to Sociology[2]	–	3
PSYC 102	Introduction to Psychology[2]	3	–
Select	Fine Arts[3]	3	–
ENGL 101,102	Composition *and* Composition II	3	3
PSYC 301	Child Psychology	–	3
SPCM 101	Introduction to Oral Communication	3	–
HED 101/FN 101	Foundations of Human Health *or* Nutrition: Contemporary Health Issues	–	2
		15	14

Second Year		Fall	Spring
Select	Interdisciplinary Studies[4]	3	–
Select	Multicultural Studies[5]	–	3
ENGL 121/204	The Western Literary Tradition[6] *or* Perspectives on the Modern World[6]	3	–
HIST 101/ PHIL103A	The History of World Civilization[6] *or* World Humanities[6]	–	3
Select	Mathematics[1]	–	3
*CI 227	Marriage and Family Living	3	–
*CI 237	Child Development	–	3
PSYC 303/ Elective	Adolescence and Young Adulthood *or* appropriate elective[7]	3	–
SPED 400/ Elective	Introduction to Special Education *or* appropriate elective[7]	–	3
		12	15

* Required courses for a major in early childhood. To avoid spending additional time completing the degree, students should contact the department and determine equivalencies.

1 See "University Core Curriculum," p. 39.

2 Required university core curriculum courses.

3 Choose from AD 101, MUS 103, or THEA 101.

4 Choose from PLB 301I, PLB 303I, or ZOOL 312I.

5 Choose from ANTH 202, HIST 202, HIST 210, OR SOC 215

6 Fulfills a university core curriculum humanities requirement

7 The flexibility of the program provides for specialization in the areas of direct care of children, teaching, and community development–related services. See *1996-97 Undergraduate Catalog* for elective choices.

Early Childhood as a Major

The emphasis in the child and family services specialization is on the development of a sound understanding of theoretical and social issues related to the child and the family. The program includes several education-related courses, such as early childhood curriculum, instructional materials and activities, and administration of preschool programs, as well as sociology, psychology, marriage and family living, infant and early child development, family relationships, and nutrition. Courses in parent involvement and field observation give the student insights into the child and family services field.

Students can study topics related to their specific career goals through such courses as psychology of personality, social work as a social institution, interviewing and interpersonal helping skills, social services and diverse populations, and social factors in personality and adjustment, among many others.

In this specialization, students are required to serve as interns in one of the many area agencies that serve children and families. This will give them an opportunity to put classroom theory into practice even before they graduate.

Faculty have varied interests in child development/family relations, early intervention, motivation of the child, pre-kindergarten education, early literacy, hands-on science, and child abuse.

Excellent facilities: a Child Development Laboratory with observation booth that serves infants, toddlers, and pre-school children.

No minor required.
Graduate degree available.

Representative first job titles: nursery school director, day care center director, child development 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, children's programs organizer, child development specialist, minority groups & race relations education specialist, family planning specialist, teacher (pre-school and infant/toddler care).

Early Childhood Education

(Preschool/Primary)
College of Education
(Bachelor of Science)

Jacquelyn Bailey
Chief Academic Adviser
Telephone 618 453-2354
135 Wham Education Building

Dr. Billy Dixon, Chair
Department of Curriculum and Instruction
Telephone 618 536-2441
327 Wham Education Building

Educators have become increasingly aware of the importance of providing quality care and guidance for the preschool child. The "baby boomlet"—children of the baby boom generation—is swelling the number of infants, toddlers, and preschool and elementary school children. At the same time, other social forces, such as the increasing numbers of two-career families and single-parent households, are causing an increasing proportion of our children to need some form of child care.

The bachelor of science degree program in early childhood education with a preschool/primary specialization meets the objectives of students interested in the education of children 0–8 years of age (birth to grade 3). Students completing this program will meet state early childhood teacher certification requirements.

NOTE: The following is a *suggested* curriculum. For more specific information consult the *1996-97 Undergraduate Catalog.*

First Year		Fall	Spring
Select	Science[1]	3	3
PSYC 102	Introduction to Psychology[2]	–	3
AD 101	Introduction to Art[2,3]	3	–
ENGL 101,102	Composition I *and* Composition II[2]	3	3
SPCM 101	Introduction to Oral Communication	3	
HED 101	Foundations of Human Health	–	2
MATH 114	Algebraic *and* Arithmetic Systems	4/3	–
MATH 314	Geometry for Elementary Teachers	–	3
		16/15	14[4]

Second Year		Fall	Spring
Select	Interdisciplinary Studies[5]	3	
Select	Multicultural Studies[6]	–	3
POLS 114	Introduction to American Government and Politics[2]	3	–
HIST 110	Twentieth Century America[2] *or* Perspectives on the Modern World[3]	3	–
HIST 101A	The History of World Civilizations[2]	–	3
*CI 227	Marriage and Family Living	3	–
*CI 237	Early Child Development I	3	–
PSYC 301	Child Psychology	–	3
MUS 101	Music Fundamentals	–	3
		15	15

* Required courses for a major in early childhood education. Students who intend to transfer with an associate degree should contact the department to determine the comparability of major classes to avoid spending additional time completing the bachelor's degree.

[1] See "University Core Curriculum," p. 39. Must have 12 hours of science, with at least one physical science and one biological science, for state certification. One lab course required. CI 427 is required to fulfill science requirement.

[2] Teacher certification requirements include PSYC 102; POLS 114; HIST 110, HIST 101a or substitute; MUS 101; an art class; ENGL 101, ENGL 102 (all with a grade of *C* or better); HED 101. Science selection must include a laboratory course. A non-Western or Third World culture course (HIST 101A or substitute) and additional university core curriculum courses are required. Additional study in behavioral studies to equal 18 hours required; nine hours must be upper-division hours. These courses are built into the program.

[3] Art may be AD 101 or 348.

[4] After completing 30 hours of college credit, including ENGL 101 and 102, with an overall GPA of 2.5 (4.0=*A*) or higher, students should apply to the SIUC teacher education program.

[5] Choose from PLB 301I and PLB 303I or ZOOL 302I.

[6] Choose from ANTH 202, HIST 202, HIST 210, SOC 215.

See the *1996-97 Graduate Catalog* for additional information on this program.

Specific university core curriculum courses listed are required for this program.

Early Childhood as a Major

The preschool-primary specialization in early childhood is a balanced blend of theory and practical courses. Students will learn about children through such courses as infant development, early childhood development, and child psychology, and will learn to understand the child with a disability. Other courses will focus on marriage and family living and parent involvement in education. Another block of time will be devoted to studying professional development, curriculum and instructional materials, literature for children, art and music for young children, and language acquisition.

Faculty have varied interests in child development/family relations, early intervention, motivation of the child, pre-kindergarten education, early literacy, and hands-on science.

Excellent facilities: Child Development Laboratory, with observation booth, that serves infants, toddlers, and pre-school-age children.

Economics

College of Liberal Arts
(Bachelor of Arts)

Dr. Daniel Primont
Department of Economics
Telephone 618 453-2713
4121 Faner Hall

The bachelor of arts degree program in economics meets the objectives of students considering various areas of business, including banking and finance, industry, trade, and utilities. Majoring in economics is also excellent preparation for graduate study in business, law, or any of the social sciences. Many SIUC economics graduates are employed by government agencies at all levels—federal, state, and local. Others have been employed by state agencies such as the Illinois Bureau of the Budget. The requirements for a major in economics are very flexible, and include 30-37hours of electives.

NOTE: The following is a *suggested* curriculum. For specific information consult the *1996-97 Undergraduate Catalog.*

First Year		Fall	Spring
Select	Science[1]	3	3
Select	Social Science[1]	3	–
Select	Humanities[1]	–	3
ENGL 101,102	Composition I *and* Composition II[1]	3	3
MATH 108/111	Pre-Calculus *(recommended)*	3–5	–
SPCM 101	Introduction to Oral Communication	–	3
Select	Human Health[1]	2	–
MATH 140/150	Short Course in Calculus *or* Calculus I *(if took MATH 111)*[2]	–	4
		14–16	16

Second Year		Fall	Spring
Select	Science[6]	3	–
Select	Social Science	–	3
Select	Humanities[1]	–	3
Select	Human Health[1]	2	–
ECON 240, 241	Introduction to Macro- *and* Microeconomics[4]	3	3
Select	Foreign Language[3]	4	4
Select	Electives[5]	3	3
		15	16

1 See "University Core Curriculum," p. 39.

2 The mathematics requirement for economics majors is Math 140 or 150.

3 Two semesters (generally 8 semester hours) of a foreign language are required for all Liberal Arts students.

4 Part of economics major requirement. Economics 240 also satisfies a social science requirement. MATH 113 recommended before ECON 240 and 241.

5 Elective hours should be used to explore areas of interest or to arrange a program that will meet specific career objectives. For example, students planning careers in business or government might take elective courses in accounting and other business subjects and in computer science. Those considering graduate study in economics are encouraged to take several courses in mathematics.

6 College of Liberal Arts requires one science with lab in addition to the university core curriculum science requirements.

Economics as a Major

The degree program in economics consists of 33 semester hours of economics courses, 18 hours of which are required courses. For the remaining 15 hours students can choose from courses in comparative systems, economic development, economic history, economic theory, econometrics, human resources, international economics, money and banking, political economy, public finance. The flexibility permitted by these electives permits students to tailor a program to their career plans.

To Counselors: We recommend that high school students thinking of majoring in economics take economics, if it is offered, and as much English (composition and literature), mathematics, government, and history as possible. Community college students interested in economics should study principles of macro- and micro-economics, English, and mathematics in addition to, or as part of, university core curriculum courses.

Representative First Job Titles: market research analyst, econometrician, economic analyst, economic forecaster, finance administrator, budget analyst, government 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 geographist, legislative aide, population economic analyst, right-of-way agent, tax economist, urban economist.

Electrical Engineering

College of Engineering
(Bachelor of Science)

Darcy Murphy, Advisement
Telephone 618 453-2261
A120 Engineering Building

See also: Civil Engineering, Mechanical Engineering, and Mining Engineering.

The bachelor of science degree program in electrical engineering meets the objectives of students preparing for professional and technical employment or for graduate studies leading to advanced degrees. Employment opportunities exist in such organizations as governmental laboratories, consumer goods manufacturers, and telecommunications, electric power, computer, and microelectronic companies. The electrical engineering major is accredited by the Accreditation Board for Engineering (ABET).

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.

NOTE: The following is a *suggested* curriculum. For specific information consult the *1996-97 Undergraduate Catalog.*

First Year		Fall	Spring
Select	Human Health[1]	2	–
Select	Social Science[1,2]	–	3
Select	Fine Arts[1,2]	3	–
ENGL 101,102	Composition I *and* Composition II[1,2]	3	3
CHEM 200,201	Introduction to Chemical Principles and Lab[3]	4	–
CHEM 210	General and Inorganic Chemistry	–	3
ENGR 222	Computational Methods for Engineers	–	2
MATH 150,250	Calculus I[3] *and* II	4	4
		16	15

Second Year		Fall	Spring
Select	Social Science [1,2]	–	3
Select	Humanities[1,2]	3	3
SPCM 101	Introduction to Oral Communication[1,2]	3	–
EE 225	Introduction to Digital Systems	3	–
EE 235	Electric Circuits	–	4
MATH 251,305	Calculus III *and* Differential Equations I	3	3
PHYS 205a,b	University Physics[3]	3	3
PHYS 255a,b	University Physics Lab	1	1
		16	17

[1] See "University Core Curriculum," p. 39. Transfer students without a baccalaureate-oriented associate degree will be required to take some specific university core curriculum courses. Students should contact College of Engineering Advisement for information on approved university core curriculum courses.

[2] Accreditation standards require that students transferring with a baccalaureate-oriented associate degree will need 16 semester hours of social sciences, fine arts, and humanities; 6 or 7 hours of oral and written communications, and 32 hours of basic sciences and mathematics before graduation from SIUC. A 300–level social science or humanities course, building on a discipline already completed, must be taken at SIUC or another senior-level institution. In general, this means that a maximum of 13 semester hours of social sciences, fine arts, and humanities from a community college will be counted toward this 16–hour requirement.

[3] Substitutes for university core curriculum.

Transfer students from community colleges or other institutions should have strong backgrounds in the physical sciences, mathematics, social sciences, fine arts, and humanities. Students are encouraged to complete specific freshman and sophomore course requirements, which include 6 semester hours of composition; 3 hours of speech, 8 hours of university physics, 7 hours of chemistry; and 11–14 hours of mathematics, including calculus.

Calculus is a prerequisite for most junior-level courses.

Computer Engineering Specialization

Students can pursue a specialization in computer engineering by completing a selected list of senior elective 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

College of Technical Careers
(Bachelor of Science)

William G. Shupe, Program Representative
Telephone 618 453-7200
202 Technical Careers Building

The bachelor of science degree program in electronics management combines advanced technical training with development of supervisory and management skills and meets the objectives of technically trained students interested in communications, industrial technology, computer technology, and biomedical applications.

The program allows students with associate in applied science degrees to build on their technical training through a combination of core courses, major requirements, approved major electives, and the university core curriculum. Entering freshmen should apply to the appropriate associate degree major and plan to enter the electronics management program on completion of an associate degree.

NOTE: The following is a suggested curriculum. For more specific information consult the *1996-97 Undergraduate Catalog.*

First Year		Fall	Spring
Select	Science[1]	3	–
Select	Social Science[1]	–	3
Select	Humanities[1]	3	–
ENGL 101,102	Composition I *and* Composition II	3	3
Select	Mathematics[1]	–	3
Select	Human Health[1]	2	–
Select	Interdisciplinary Studies[1]	–	3
Electives *or*	Technical Specialization	7	6
		18	18
Second Year			
Select	Science[1]	–	3
Select	Social Science[1]	–	3
Select	Humanities[1]	3	–
Select	Fine Arts[1]	3	–
SPCM 101	Introduction to Oral Communication	3	–
Select	Multicultural Studies[1]	–	3
Electives *or*	Technical Specialization	9	10
		18	19

* University core curriculum = 41 hours. See adviser to determine eligibility for Capstone Option. See electronics technology option for A.A.S. requirements.

[1] See "University Core Curriculum," p. 39.

Third and Fourth Years

Core courses — 12 hours required

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

Two of the following:

ELM 365	Data Applications	3
ELM 387	Electronics Industry Labor–Management Relations	3
ELM 389	Career Development for Electronics Managers	3

Electronics Management Requirements — 15 hours

ELT 301	Biomedical Instrumentation Lecture*	5
ELT 302	Optical Electronics Lecture	4
ELT 303	Microcomputer Construction and Troubleshooting Lecture	5
ELT 304	Communication Systems	4
ELT 305	Microcomputer Repair	4
ELT 306	Computer Aided Drafting and Design for Electronics	3
ELT 307	Advanced Industrial Electronics	5
ELT 309	Microprogramming	3
ELT 311	Biomedical Instrumentation Lab*	6
ELT 312	Optical Electronics Lab	2
ELT 313	Microcomputer Construction and Troubleshooting Lab	6
ELT 314	Communication Systems Lab	4
ELT 317	Advanced Industrial Electronics Laboratory	6
ELT 337	Power Distribution and Motor Control	4
ELT 404	Communications Systems II	4
ELT 414	Communications Systems II Lab	4

NOTE: At least one set of ELT lecture and laboratory courses is required. Competency tests will be administered during the first lecture period.

*Biomedical option requires completion of 12–hour internship.

Electronics Management Electives–9 hours. Courses must be approved by adviser.

The 41–hour university core curriculum requirement may be met by courses completed at any accredited college or university or by credit received through CLEP, USAFI, DANTES, or proficiency exami-

nations. However, there is a 60-hour requirement for credit granted by a senior-level institution. Students who have completed an A.A.S. degree may be eligible for the Capstone Option, which reduces the hours required in university core curriculum from 41 to 30. Students may also receive credit for previous educational, military, and occupational experience. Credit is established by departmental evaluation.

Field internships and independent study opportunities are available with approval from the faculty adviser.

Internship, independent study, or approved equivalent: 12 hours.

Approved career electives: 26 hours

TOTAL: 120 hours

Representative First Job Titles: electronics technician, service representative, instrumentation engineer, technical sales representative, customer engineer, quality control engineer.

Electronics Technology

College of Technical Careers
(Associate in Applied Science)

William G. Shupe
Program Representative
Telephone 618 453-7200
203 Technical Careers Building

The associate in applied science degree program in electronics technology meets the objectives of students taking a two-year degree and entering the job market or continuing in the College of Technical Careers for a four-year electronics degree. SIUC is one of the few state institutions offering both two-year and four-year degrees in electronics technology. The program provides a high technical level of student preparation, as well as a theoretical approach to electronics, that prepares technologists capable of taking their place in a wide range of industry positions.

NOTE: The following is a *suggested* curriculum. For specific information consult the *1996-97 Undergraduate Catalog.*

First Year		Fall	Spring
ENGL 101	Composition I	–	3
SPCM 101	Introduction to Oral Communication	–	3
ELT 101	AC-DC Circuit Analysis Theory	5	–
ELT 111	AC-DC Circuit Analysis Lab	6	–
ELT 121	Electronics Devices	3	–
ELT 102	Electronics Circuits Theory	–	5
ELT 112	Electronics Circuits Laboratory	–	6
ELT 224	Computer System Applications	–	3
IMS 125	Technical Mathematics with Application	4	–
		18	20

Second Year		Fall	Spring
ENGL 102	Composition II	–	3
IMS 102/ CS 202/212	Introduction to Programming *or* Introduction to Computer Science *or* Business Computing	–	3
ELT 201	Telemetry and Industrial Circuits Theory	5	–
ELT 202	Digital Electronics Theory	–	5
ELT 211	Telemetry and Industrial Circuits Lab	6	–
ELT 212	Digital Electronics Laboratory	–	6
ELT 221	Electronics Systems Analysis	3	–
IMS 126	Technical Physics	4	–
		18	17

A minimum of 72 semester hours credit must be completed for graduation.
Workbooks and supplies required for laboratory courses cost approximately $150.
For more information consult the *1996-97 Undergraduate Catalog.*

Electronics Technology as a Major

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, including 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 learn to use diagnostic analysis in troubleshooting and repairing electronics equipment.

During the first year of the program most instruction focuses on basic principles of electricity and electronics, followed by digital circuits, including microprocessors and computer aided design and industrial systems. Throughout the four semesters of study students will have a minimum of ten clock hours of laboratory work and eight hours of electronics theory lectures each week. Laboratory classes require students to design and construct projects. Second-year students select projects, in the framework of the class, that are related to their own interests. The contents of lectures and laboratories are constantly changing the basis of input from a very active advisory committee of representatives from IBM, Texas Instruments, ITC/3M, ALCOA, Zenith, Motorola, GE-FANUC, Emerson Electric, McDonnell-Douglas, MCI, and Carl Foundation..

Graduates are employed by such major corporations as General Electric, Emerson Electric, A T & T Bell Research Laboratories, IBM, General Tire and Rubber Company, Digital Equipment Corporation, Texas Instruments, Rockwell, General Telephone (Automatic Electric), Motorola, McDonnell-Douglas, Zenith, and many other major electronics companies. A majority of these graduates work in direct support, and the rest in indirect support, of electronics engineers.

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

Representative First Job Titles: electronics technician, bench technician, repair analysis technician, biomedical technician, technical sales representative, customer engineer, quality control engineer, field technician, field engineer.

Elementary Education (K-9)

College of Education
(Bachelor of Science)

Jacquelyn Bailey
Chief Academic Adviser
Telephone 618 453-2354
135 Wham Building

Dr. Billy Dixon, Chair
Telephone 618 536-2441
327 Wham Building

The bachelor of science degree in education with a concentration in elementary education meets the objectives of students interested in teaching grades K-9, particularly grades 4-6, and prepares them to fulfill the minimum requirements for a standard Elementary School Certificate. Elementary education majors are prepared to accept jobs in self-contained or departmentalized classrooms at the elementary or junior high school level. Recent predictions indicate that there may be a shortage of elementary teachers in just a few years. Students should study the section in the *1996-97 Undergraduate Catalog* that lists such requirements.

In addition to general University and College of Education requirements, students must meet all requirements prerequisite to student teaching.

NOTE: The following is a *suggested* curriculum. For specific information consult the *1996-97 Undergraduate Catalog.*

First Year		Fall	Spring
Select	Physical Science[1]	3	–
PSYC 102	Introduction to Psychology	–	3
AD 101	Introduction to Art	3	–
HIST 110	Twentieth Century America	–	3
ENGL 101,102	Composition I *and* Composition II	3	3
SPCM 101	Introduction to Oral Communication	–	3
MATH 114, 314	Algebraic and Arithmetic Systems *and* Geometry for Elementary Teachers	4	3
		13	15

Second Year		Fall	Spring
Select	Biological Science[2]	3	–
POLS 114	Introduction to American Government and Politics	3	–
ENGL 121/204	The Western Literary Tradition *or* Literary Perspectives	3	–
Select	Interdisciplinary Studies[3]	–	3
Select	Humanities[4]	–	3
PE 101/HED 101	Current Concepts of Physical Fitness *and* Foundations of Human Health	2	2
FL 313I/ HIST 304I	East Asian Civilization *or* Islamic Religion and Culture	–	3
MUS 103	Music Understanding	3	–
ANTH 202 /HIST 202	American Cultures *or* America's Religious Diversity	–	3
		15/16	15/14

[1] Choose from CHEM 101, GEOL 110, and ZOOL 312I.
[2] Choose from PLB 115, PLB 117, and ZOOL 115.
[3] Choose from PLB 301I, 303I, and ZOOL 312I.
[4] See "University Core Curriculum," p. 39.

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. Elementary education has four parts: university core curriculum courses required of all students pursuing a bachelor's degree at SIUC; the teacher education program—a professional education sequence that culminates in a semester of student teaching; a group of required and elective courses in the professional field of elementary education; and observed and actual experiences with children.

All students should refer to "Teacher Education Program Admission Requirements," p. 14.

Engineering Technology

(Electrical)
College of Engineering
(Bachelor of Science)

Dr. Gary J. Butson
Telephone 618 536-3396
D121 Engineering Building

In the occupational spectrum between the technician and the engineer, engineering technology lies at the end of the spectrum closer to the engineer, integrating scientific and engineering knowledge and methods with technical skills and applying them to the support of engineering activities.

The bachelor of science degree program in electrical engineering technology meets the objectives of students planning 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.

All curricula in engineering technology are accredited by the Technology Accreditation Commission of the Accreditation Board for Engineering and Technology. These include the electrical engineering technology and mechanical engineering technology curricula.

NOTE: The following is a *suggested* curriculum. For specific information consult the *1996-97 Undergraduate Catalog.*

First Year		Fall	Spring
PLB 115/117 /ZOOL115	General Biology *or* Plants and Society	–	3
Select	Social Science[1]	–	3
Select	Humanities[1]	3	–
ENGL 101,102	Composition I *and* Composition II	3	3
CHEM 140a	Chemistry[2]	4	–
MATH 111	Pre-Calculus[2]	5	–
MATH 150	Calculus I	–	4
		15	15

Second Year		Fall	Spring
Select	Social Science[1]	–	3
Select	Humanities[1]	–	3
ENGR 222	Computational Methods	–	2
ET 238	Digital Electronics	4	–
ET 245a	Electrical Systems for Industry	4	–
SPCM 101	Introduction to Oral Communication	3	–
MATH 250	Calculus II	–	4
PHYS 203a,b	College Physics[2]	3	3
PHYS 253a,b	College Physics Lab	1	1
		15	16

[1] See "University Core Curriculum," p. 39.
[2] Substitutes for university core curriculum.

Engineering Technology as a Major, with a specialization in Electrical Engineering Technology

Required for the bachelor's degree in EET are 125 semester hours, including mathematics and basic science; communications, humanities and social science; required core; and elective technology courses. A minimum of 30 semester hours in Engineering Technology must be taken in residence at SIUC.

A minor is not required. No foreign language is required.

Career and Employment Opportunities in EET: employment opportunities for graduates with B.S. degrees in electrical engineering technology are excellent. Graduates are employed in the communications industry, electronic and electrical industries; by transportation industries and consulting firms; in the power and energy industries, in machinery manufacturing companies, and in many other areas.

Engineering Technology

(Mechanical)
College of Engineering
(Bachelor of Science)

Dr. Gary J. Butson
Telephone 618 536-3396
D121 Engineering Building

In the occupational spectrum between the technician and the engineer, engineering technology lies at the end of the spectrum closer to the engineer, integrating scientific and engineering knowledge and methods with technical skills and applying them to the support of engineering activities.

The bachelor of science degree program in mechanical engineering technology meets the objectives of students planning careers 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.

All curricula in engineering technology are accredited by the Technology Accreditation Commission of the Accreditation Board for Engineering and Technology. These include the electrical engineering technology and mechanical engineering technology curricula.

NOTE: The following is a *suggested* curriculum. For specific information consult the *1996-97 Undergraduate Catalog.*

First Year		Fall	Spring
PLB115/117	General Biology *or*		
ZOOL/115	Plants and Society	–	3
Select	Social Science[1]	–	3
ENGL 101,102	Composition I *and* Composition II	3	3
GEE 201/236	Human Health[1]	2	–
CHEM 140a	Chemistry[2]	4	–
ET 103,104	Engineering Drawing I, II	3	3
MATH 111	Pre-Calculus[2]	5	–
MATH 150	Calculus I	–	4
		15	16

Second Year		Fall	Spring
Select	Humanities[1]	–	3
SPCM 101	Introduction to Oral Communication	3	–
Select	Human Health[1]	2	–
ENGR 222	Computational Methods	–	2
ET 245a	Electrical Systems for Industry	–	4
ET 260a,b	Principles of Mechanics (Statics *and* Dynamics)	3	3
MATH 250	Calculus II	4	–
PHYS 203a,b	College Physics[2]	3	3
PHYS 253a,b	College Physics Lab	1	1
		16	16

[1] See "University Core Curriculum," p. 39.
[2] Substitutes for university core curriculum.

Engineering Technology as a Major

with a specialization in Mechanical Engineering Technology

Required for the bachelor's degree in MET are 125 semester hours, including mathematics and basic science; communications, humanities and social science; required core; and elective technology courses. A minimum of 30 semester hours in engineering technology must be taken in residence at SIUC.

A minor is not required. No foreign language is required.

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.

English[1]

College of Education
(Bachelor of Science)

Jacquelyn Bailey
Chief Academic Adviser
Telephone 618 453-2354
135 Wham Building

English has proven itself time and again the best preparation for many professional careers, including law, medicine, business, and government services. Students who choose to study literature, language, and composition at Southern Illinois University at Carbondale have excellent resources available to them: an experienced faculty, well-equipped facilities and extensive library collections.

The bachelor of science degree program in English education meets the objectives of students preparing for teaching at the secondary level, for graduate study, or for positions requiring effective communication of ideas. Students will gain a thorough background in composition, language, and literature, studying the various forms of English, American, and world literature, contemporary and historic.

NOTE: The following is a *suggested* curriculum. For specific information consult the *1996-97 Undergraduate Catalog.*

First Year		Fall	Spring
Select	Science[2]	3	3
POLS 114	Introduction to American Government and Politics	3	–
PSYC 102	Introduction to Psychology	–	3
Select	Humanities[2]	3	3
ENGL 101,102	Composition I *and* Composition II	3	3
Select	Mathematics[2]	–	3
Select	Non-Western Civilization[3] *or* Third World Culture	3	–
		15	15

Second Year		Fall	Spring
Select	Fine Arts[4]	3	–
HIST 110	Twentieth Century America	–	3
FL 230	Classical Mythology	–	3
SPCM 101	Introduction to Oral Communication	3	–
HED 101/PE 101	Foundations of Human Health *or* Current Concepts of Physical Fitness	2	–
Select	approved English electives	6	3
Select	Electives[5]	3	3
Select	Interdisciplinary Studies[6]	–	3
		17	15

1 See "College of Liberal Arts," p. 48.
2 See "University Core Curriculum," p. 39.
3 See "College of Education," p. 45, for teacher certification requirements.
4 Choose from AD 101, MUS 103, HIST 201, and THEA 101.
5 Elective hours should be used to pursue the teacher education program or approved English courses.
6 Choose from PLB 301I, PLB 303I, and ZOOL 312I.

In Addition

A minimum GPA of 2.50 is required for admission to the teacher education program.

The following specific university core curriculum courses are required for teacher certification: PSYC 102, Introduction to Psychology; POLS 114, Introduction to American Government and Politics; HIST 110, Twentieth Century America; ENGL 101, Composition I, ENGL 102, Composition II; SPCM 101, Introduction to Oral Communication; HED 101, Foundations of Human Health or PE 101, Current Concepts of Physical Fitness; and one English literature course. At least one 3-semester-hour course must be taken in non-Western or Third World cultures. University core curriculum science courses must include one laboratory class and both physical and biological sciences.

English as a Major

Students who plan to teach English at the high school level can prepare through either the College of Liberal Arts or the College of Education at SIUC. Both degrees require completion of the formal teacher education program, which consists of courses required for teacher certification, a semester of student teaching, and the English core described above, as well as courses in introduction to language analysis; problems in teaching composition, language, literature and reading in high school; advanced courses in English literature before 1800, American literature before 1900, and continental literature; and several elective courses. The College of Liberal Arts requires one year of a foreign language. Both degrees are fully accredited by the Illinois State Office of Education and the National Council for Accreditation of Teacher Education (NCATE).

English

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

Dr. Richard Peterson
Chair
Telephone 618 453-5321
2370 Faner Hall

The bachelor of arts degree in English is offered with three specializations that will accommodate a variety of career objectives.

The *general specialization* appeals to students preparing for graduate study and for occupations, such as journalism and publishing, that place more than usual emphasis on effective communication and organization of ideas. The broadly based, flexible program concentrates on English, American, and world literatures and includes study in the various forms and periods of literature.

Students with excellent undergraduate records, a taste for literary analysis and criticism, and a desire to teach young adults rather than adolescents might want to consider college teaching as a career. The *pre-graduate study specialization*, which allows a great deal of flexibility in choosing upper-division courses, is designed for students planning to attend graduate school and offers them a thorough background in composition, language, and literature, both contemporary and historic.

The *pre-professional specialization* in English will attract students who want to write clearly and effectively and to read with understanding. The emphasis on language and communication in this program may be particularly attractive to pre-law students. Surveys also show that the verbal abilities of English graduates 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.

NOTE: The following is a *suggested* curriculum. For specific information consult the *1996-97 Undergraduate Catalog*.

First Year		Fall	Spring
Select	Science[1]	3	3
Select	Social Science[1]	3	3
ENGL 121	The Western Literary Tradition[2]	–	3
ENGL 101,102	Composition I *and* Composition II	3	3
Select	Mathematics[1]	–	3
SPCM 101	Introduction to Oral Communication	3	–
Select	Human Health[1]	2	–
		14	15

Second Year		Fall	Spring
Select	Science[3]	3	–
Select	Humanities[1]	3	3
Select	English Literature[2]	–	3
Select	American Literature[2]	3	–
Select	Foreign Language[3]	4	4
FL 230	Classical Mythology[2]	–	3
Select	Fine Arts[1]	3	–
Select	Elective[4]	–	3
		16	16

1 See "University Core Curriculum," p. 39.
2 Required by the major.
3 College of Liberal Arts requirement: see p. 48.
4 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, p. 48).

English as a Major

A major goal of university core curriculum, pre-graduate study, and pre-professional specializations is teaching 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 adviser before their first registration at SIUC. Any of the English options may be modified by entry into the departmental honors program.

Representative First Job Titles: editor, customer services personnel, publications personnel, executive secretary, copywriter, correspondent, critical writer, feature writer, program assistant, reporter, assistant librarian, rewriter, technical writer, educational television staff, manufacturer's representative, sales agent, interpreter.

English
(Teacher Education)*
College of Liberal Arts
(Bachelor of Arts)

Dr. Richard Peterson
Chair
Telephone 618 453-5321
2370 Faner Hall

The major in English with a specialization in teacher education may be pursued through the College of Liberal Arts or, for those considering teaching in secondary schools, the College of Education. The major is preparatory not only for teaching but also for graduate study or for positions requiring effective communication of ideas. Students will acquire a thorough background in composition, language, and literature. The various forms of English, American, and continental literature, contemporary and historic, are studied.

NOTE: The following is a *suggested* curriculum. For specific information consult the *1996-97 Undergraduate Catalog.*

First Year		Fall	Spring
Select	Science[1]	3	3
POLS 114	Introduction to American Government and Politics	3	–
PSYC 102	Introduction to Psychology	–	3
ENGL 121	The Western Literary Tradition	–	3
Select	Mathematics[1]	–	3
ENGL 101,102	Composition I *and* Composition II	3	3
SPCM 101	Introduction to Oral Communication	–	3
HED 101/PE 101	Foundations of Human Health *or* Current Concepts of Physical Fitness	2	–
		14	17

Second Year		Fall	Spring
Select	Science[3]	3	–
HIST 110	Twentieth Century America	3	–
Select	Foreign Language[3]	4	4
Select	English Literature[4]	–	3
Select	American[1] Literature[4]	3	–
Select	Integrative Studies[1]	–	3
Select	Fine Arts	3	–
FL 230	Classical Mythology	–	3
		16	13

* See also "College of Education," p. 45.
1 See "University Core Curriculum," p. 39.
2 Required for teacher certification: see "College of Education," p. 45.
3 College of Liberal Arts requirement: see p. 48.
4 Required by the major.

English as a Major

Students who plan 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 adviser before their first registration at SIUC.

Students interested in this program should become aware of the requirements for entering the teacher education program (see p. 14). 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
2370 Faner Hall

The bachelor of arts degree in English with a specialization in creative writing meets the objectives of students who want to pursue and refine an interest in literature and language through their creative abilities. The equivalent of seven courses, beyond the core curriculum required of all English majors, is offered, culminating in a directed senior writing project such as a collection of short stories or poems, a novel, or a play. All instructors of these courses have published their own creative writing, and the major thrust of the work will be toward publication. An alternative to the senior project, if appropriate arrangements can be made, might be an internship in a publishing firm.

NOTE: The following is a *suggested* curriculum. For specific information consult the *1996-97 Undergraduate Catalog.*

First Year		Fall	Spring
Select	Science[1]	3	3
Select	Social Science[1]	3	3
ENGL 121	The Western Literary Tradition[2]	–	3
ENGL 101,102	Composition I *and* Composition II	3	3
Select	Mathematics[1]	–	3
SPCM 101	Introduction to Oral Communication	3	–
Select	Human Health[1]	2	–
		14	15

Second Year		Fall	Spring
Select	Science[3]	3	–
Select	Humanities[1]	3	–
ENGL 281/282 /283	Beginning Fiction, Poetry, *or* Drama[2]	–	3
Select	Foreign Language[3]	4	4
Select	Integrative Studies[1]	–	3
Select	Fine Arts[1]	–	3
FL 230	Classical Mythology[2]	3	3
		13	16

[1] See "University Core Curriculum," p. 39.
[2] Required by the major. Students should select two courses from 281, 282, and 283.
[3] College of Liberal Arts Requirement; see p. 48.

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 singular design of this specialization requires a great deal of advisement and consultation to insure that students go through the proper sequence of courses. If possible, transfer students should contact a departmental adviser before their first registration at SIUC.

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

Representative First Job Titles: customer services personnel, public relations officer, publications personnel, executive secretary, announcer, continuity writer, copywriter, correspondent, critical writer, editorial writer, feature writer, program assistant, reporter, assistant librarian, rewriter, technical writer, educational television staff, manufacturer's representative, sales agent, recreation specialist, interpreter.

Finance

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

Dr. Iqbal Mathur
Chairperson
Department of Finance
Telephone 618 453-2459
134 Henry J. Rehn Hall

Finance is the acquisition, management, and financing of resources, with due regard to market prices, for firms and individuals. Within a firm, financial considerations drive the central decisions about research, engineering, production, and marketing. In governmental activities, sophisticated financial techniques are becoming increasingly important. The financial executive thus plays a key role in the successful management of both business and governmental operations.

The bachelor of science degree program in finance with a *financial management* option meets the objectives of students planning careers in the financial operations of business firms and public institutions. The degree program with a *financial institutions* option meets the needs of those planning careers related to financial intermediaries and financial markets.

NOTE: The following is a *suggested* curriculum. For specific information consult the *1996-97 Undergraduate Catalog.*

First Year		Fall	Spring
Select	Science[1]	3	3
Select	Fine Arts[2]	3	–
*PSYC 102	Introduction to Psychology	–	3
Select	Humanities[1]	3	3
ENGL 101,102	Composition I *and* Composition II	3	3
*MATH 139	Finite Mathematics[2]	3	–
*MATH 140	Short Course in Calculus	–	4
		15	16

Second Year		Fall	Spring
Select	Integrative Studies[1]	–	3
SPCM 101	Introduction to Oral Communication	3	–
*ACCT 220	Financial Accounting	3	–
*ACCT 230	Managerial Accounting	–	3
*ACCT/ MGMT 208	Business Data Analysis	3	–
*CS 212/ CIP 229	Introduction to Business Computing *or* Computing for Business Administration[3]	–	3
*ECON 240,241	Introduction to Macro- *and* Microeconomics[4]	3	3
*FIN 270	Legal and Social Environment of Business[3]	3	–
*MGMT 202	Business Communications	–	3
		15	15

* Required course for a major in COBA.
1 See "University Core Curriculum," p. 39.
2 Fulfills a university core curriculum mathematics requirement.
3 Course will be approved by articulation agreement with each college.
4 Fulfills a university core curriculum social science requirement.

Third and Fourth Years

Students with declared finance majors will take upper-level business courses that will prepare them for rewarding careers in the finance area. These courses include the remaining core requirements and 21 credits in the finance area.

Finance as a Major

Finance majors must maintain a cumulative 2.0 grade point average in finance prefix (FIN) courses taken at SIUC.

It is strongly recommended that the courses listed above be completed prior to the junior year. Many of these courses are prerequisites to later requirements. The department is accredited by the American Assembly of Collegiate Schools of Business (AACSB).

See "College of Business and Administration," p. 44, for the retention policy and the 40 percent rule.

No minor required. No foreign language required.

Graduate degrees available; Masters in Accountancy (M.Acc.), D.B.A.

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

College of Technical Careers
(Bachelor of Science)

Gary Walton, Coordinator
Telephone 708–689–3055
SIU/CTC Great Lakes
P. O. Box 467
North Chicago, IL 60064

The bachelor of science degree program in fire science management meets the objectives of students preparing for supervisory and management positions in the fire service, insurance, and fire equipment–manufacturing industries and related fields. Practical course work in management and supervision is offered to students who hold or are completing an associate in applied science degree (or its equivalent), in a fire science–related field, from a technical institute or community college.

This degree program, which is presently offered only at off-campus sites, provides a technical management program of study comprising required core courses, program major requirements, approved major electives, and the university core curriculum.

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 course work, to enter.

Fire Science Management Major (off-campus only)

University core curriculum		41
Requirements for major		48
Core requirements: FSM 332, ATS 364, ATS 416, FSM 421	12	
Fire science management major requirements: ATS 321, 412, ; FSM 383, 387, 388, 398, 402, 413	24	
12 hours selected from ATS 363a, b, c, d, or e	12	
Approved career electives		31
		120

Fire Science Management as a Major

Students must complete all program core courses, major requirements, and electives with a 2.0 GPA or better, and must fulfill university core curriculum, total hour, residency, and grade-point-average requirements.

Qualified students may be admitted to the Capstone Option, which reduces the number of hours required in university core curriculum from 41 to 30. Graduates of two-year occupational programs are encouraged to consider the Capstone Option. Capstone allows students with associate in applied science degrees (or equivalent certification) of at least 60 semester hours in non-baccalaureate programs, with a minimum grade-point average of 2.25, to fulfill the bachelor of science degree requirements by completing 60 additional semester hours of work approved by a Capstone Option adviser. Students' Capstone Option application must be on file by the end of their first semester at SIUC. Additional qualification requirements are detailed under "Capstone Option," p. 34.

University core curriculum may be satisfied by courses completed at any accredited institution of higher education or by credit received through CLEP, USAFI, DANTES, or proficiency examinations. For more information consult the *1996-97 Undergraduate Catalog*. Credit for health and physical education courses 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. Field internships and independent study opportunities are available on approval by the student's adviser.

Admission to the bachelor of science degree program in fire science management does not imply admission to any CTC associate degree program.

Food and Nutrition

(General Dietetics)
Department of Animal Science,
Food and Nutrition
College of Agriculture
(Bachelor of Science)

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

The bachelor of science degree program in food and nutrition with a specialization in general dietetics meets the objectives of students interested in careers as dietitians in hospitals, college dormitories, industrial plants, health clinics, laboratories, or public health and community organizations. The program fulfills the academic requirements of the American Dietetics Association.

NOTE: The following is a *suggested* curriculum. For specific information consult the *1996-97 Undergraduate Catalog.*

First Year		Fall	Spring
ZOOL 118	Principles of Animal Biology[1]	4	–
ANTH 104/ SOC 108	The Human Experience *or* Introduction to Sociology	–	3
PSYC 102	Introduction to Psychology	–	3
ECON 113	Economics of Contemporary Social Issues	–	3
Select	Fine Arts[2]	3	–
ENGL 101	Composition I	3	–
Select	Mathematics[2]	3	–
Select	Human Health[2]	–	2
CHEM 140a&b	Chemistry[1]	4	4
		17	15

Second Year		Fall	Spring
Select	Humanities[2]	3	3
ENGL 102	Composition II	–	3
SPCM 101	Introduction to Oral Communication	3	–
CS 212/ CIP 229	Introduction to Business Computing *or* Computing for Business Administration	–	3
FN 215	Introduction to Nutrition	2	–
FN 256	Science of Food	5	–
FN 320	Nutrition	–	3
PHSL 301	Anatomy	–	4
		13	16

[1] Fulfills a university core curriculum science requirement.
[2] See "University Core Curriculum," p. 39.

Third and Fourth Years

The last two years of a student's program include courses in nutrition, food science systems, medical nutrition, physiology, biology, biochemistry and psychology.

Post-Baccalaureate Preparation

Students in dietetics are required by the American Dietetics Association to complete a post-baccalaureate internship or practicum in addition to their academic work. This requirement allows students to gain applied experience in a professional environment. Students who have successfully completed the academic and experiential components are eligible to write the Registration Examination for Dietitians. A successful examinee becomes a registered dietitian and is entitled to use the initials "R.D." to signify professional competence.

Representative First Job Titles: dietitian, dietetic technician, food service supervisor.

Food and Nutrition

(Hotel, Restaurant and Travel Administration)
Department of Animal Science,
Food and Nutrition
College of Agriculture
(Bachelor of Science)

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

The bachelor of science degree program in hotel, restaurant and travel administration (HRTA) meets the objectives of students preparing for challenging careers in hospitality management.

The academic emphasis of the multi-disciplinary program is on providing students with the practical principles, management concepts, and analytical tools used in the hotel and restaurant industries.

The program recognizes the importance not only of academic theory but also of obtaining appropriate hotel and restaurant industry experiences. The program has a two-stage internship program and also uses on-site food service and lodging facilities as part of the academic courses.

NOTE: The following is a *suggested* curriculum. For specific information consult the *1996-97 Undergraduate Catalog.*

First Year		Fall	Spring
Select	Science[1]	3	–
ECON 113	Economics of Contemporary Social Issues	3	–
Select	Fine Arts[1]	3	–
Select	Humanities[1]	–	3
ENGL 101,102	Composition I *and* Composition II	3	3
Select	Mathematics[1]	–	3
SPCM 101	Introduction to Oral Communication	3	–
FN 101	Nutrition: Contemporary Health Issues	–	2
FN 156	Fundamentals of Food	–	3
		15	14

Second Year		Fall	Spring
PSYC 102	Introduction to Psychology	–	3
Select	Humanities[1]	–	3
Select	Science[1]	–	3
Select	Integrative Studies[1]	3	3
ACCT 220	Principles of Accounting	–	3
CS 212/ CIP 229	Introduction to Business Computing *or* Computing for Business Administration	3	–
FN 202	The Hospitality and Tourism Industries	3	–
FN 206	Food Service Sanitation	2	–
FIN 280/270	Business Law I *or* Legal and Social Environment	3	–
		14	15

[1] See "University Core Curriculum," p. 39.

Third and Fourth Years

The last two years of the program concentrate on developing managerial and analytical abilities of students. Courses in all the aspects of hotel, restaurant and tourism management are taken. In addition, students must complete 8 hours in a discipline pertinent to HRTA specialization.

Upon graduating, most students enter graduate management trainee programs that last from 6 to 18 months.

Representative First Job Titles: restaurant manager, hotel sales and marketing manager, food and beverage purchasing officer, front desk manager, catering manager, food and beverage manager, assistant convention coordinator, assistant hotel manager, and ship's purser.

Foreign Language and International Trade

College of Liberal Arts
(Bachelor of Arts)

Dr. Thomas Keller, Chair
Dr. Eugene Timpe, Director
Telephone 618 536-5571
2162 Faner Hall

The bachelor of arts degree program in foreign language and international trade meets the objectives of students considering careers in the world of international business.

The foreign language and international trade degree program 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 credit hours in one of these foreign languages: French, German, Japanese, Spanish, Russian, and Chinese. An internship late in the program gives students the opportunity to travel and work in an international company or agency.

NOTE: The following is a *suggested* curriculum. For specific information consult the *1996-97 Undergraduate Catalog.*

First Year		Fall	Spring
Select	Science[1]	–	3
PSYC 102	Introduction to Psychology[2]	3	–
Select	Humanities[1]	3	3
ENGL 101,102	Composition I *and* Composition II	3	3
Select	Human Health[1]	2	–
Select	Foreign Language[2]	4	4
Select	Mathematics[1]	–	3
		15	16

Second Year		Fall	Spring
Select	Science[1,3]	3	3
POLS 250	Politics of Foreign Nations	3	–
Select	Social Science[1]	–	3
SPCM 101	Introduction to Oral Communication	3	–
Select	Fine Arts[1]	–	3
ECON 240,241	Introduction to Macro- *and* Microeconomics	3	3
Select	Foreign Language[3]	4	4
		16	16

[1] See "University Core Curriculum," p. 39.
[2] Required for major.
[3] See "College of Liberal Arts," p. 48.
[4] A student may substitute up to a maximum of three credit hours, with either a third semester of a foreign language or a first semester or more advanced course in Latin or Greek, for a university core curriculum humanities group 1 or group 2 requirement.

Foreign Language and International Trade as a Major

The degree program in foreign language and international trade provides its graduates the best available training for entry into the international business community. Students take courses that give them background in the business world and in the culture, religion, philosophy, politics, history, and geography of the country where the language they are studying is spoken.

Besides the major courses, the student must complete all other university core curriculum, 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 Adviser
Telephone 618 453-2354
135 Wham Building

Dr. Thomas Keller, Chair
Foreign Languages and Literatures
Telephone 618 536-5771
2166 Faner Hall

See also: Classics, French, German, Russian, Spanish

The great importance of proficiency in other languages is being recognized by a growing number of leaders in education, government, and business. Peaceful and productive international relations, and success in business, industry, and foreign trade, depend on the mutual understanding and communication made possible by the knowledge of one or more languages besides our own.

The bachelor of science degree program in foreign languages with a teaching specialization meets the objectives of students preparing for teaching, graduate study, or other positions requiring the ability to speak, read, understand, and interpret foreign languages. The federal government provides opportunities for individuals with such skill.

Major concentrations leading to the degree are offered in French, German, and Spanish. Courses are also offered in Chinese, Classical Greek, Latin, Portuguese, Russian, Serbo-Croatian, and Vietnamese. (Serbo-Croatian and Vietnamese are offered in cooperation with the Department of Linguistics.)

NOTE: The following is a *suggested* curriculum. For specific information consult the *1996-97 Undergraduate Catalog.*

First Year		Fall	Spring
Select	Science[1]	3	–
POLS 114	Introduction to American Government and Politics	3	–
PSYC 102	Introduction to Psychology	–	3
ENGL 101,102	Composition I *and* Composition II	3	3
Select	Mathematics[1]	–	3
HED 101/PE 101	Foundations of Human Health *or* Current Concepts of Physical Fitness	–	2
Select	Elementary French, German, *or* Spanish	4	–
Select	continue the foreign language course sequence	–	5
		13	16

Second Year		Fall	Spring
Select	Science[1]	3	–
HIST 110	Twentieth Century America[1]	–	3
Select	approved course in non-Western or Third World culture[3]	3	–
Select	Humanities[1,2]	–	3
SPCM 101	Introduction to Oral Communication	–	3
Select	Fine Arts[1,2]	3	–
Select	Intermediate French, German, *or* Spanish	4	4
Select	Integrative Studies[1]	3	3
		16	16

[1] See "University Core Curriculum," p. 39.
[2] See "College of Education," p. 45, for teacher certification requirements.
[3] Contact SIUC College of Education Advisement Center for course recommendation.

University core curriculum courses required for teacher certification include PSYC 102; POLS 114; HIST 110; ENGL 101 and 102; SPCM 101; HED 101 or PE 101; one English literature course. At least one three-semester-hour course must be taken in non-Western or Third World cultures. University core curriculum science courses must include one laboratory course and both physical and biological sciences.

Foreign Language as a Major

To become a teacher of a foreign language at the high school level involves not just a thorough knowledge of the language itself but also professional courses in education, culminating in a semester of practice teaching. Upon graduation, students will have met the University's requirements for teacher certification in Illinois. Foreign language education majors are fully accredited by the National Council for Accreditation of Teacher Education and the Illinois State Office of Education.

Students interested in majoring in any of the offered languages should be aware of the requirements for entrance into the teacher education program (see p. 14).

No minor is required, although minors are available in Chinese, Greek, Latin, East Asian Civilizations, and Japanese.

Many graduates with foreign language skills can find interesting opportunities with private industry, foreign news bureaus, airlines, and travel agencies. University and research institute libraries and social work agencies offer varied work situations for people with foreign language facility.

Graduate degrees are available.

Forestry

(Forest Resources Management Specialization)
College of Agriculture
(Bachelor of Science)

Dr. Dwight R. McCurdy, Chair
Telephone 618 453-3341
184 Agriculture Building

The bachelor of science degree program in forest resources management meets the objectives of students considering careers in forest management and production, multiple-use resource management, and the forest products industries.

The goal of the specialization is to develop individuals with sufficient understanding of the physical, biological, and economic considerations required to make sound management decisions for multiple use of forest resources. Integrated management of natural and renewable resources, coordination of forest use methods and conservation practices, and preservation of the wildlands heritage are emphasized. A five-week session (field study) is required after the junior year to give the student practical field experience.

The specialization is accredited by the Society of American Foresters.

NOTE: The following is a *suggested* curriculum. For specific information consult the *1996-97 Undergraduate Catalog.*

First Year		Fall	Spring
ZOOL 118	Principles of Animal Biology	–	3
Select	Social Science[2]	3	–
ENGL 101,102	Composition I *and* Composition II	3	3
Select	Human Health[2]	–	2
CHEM 140 a,b	Chemistry[1]	4	4
FOR 200	Introduction to Forestry	1	–
MATH 110/140	Nontechnical Calculus *or* Calculus I	–	4
PLB 200	General Plant Biology *and* Lab[1]	4	–
		15	16

Second Year		Fall	Spring
Select	Humanities[2]	3	3
Select	Fine Arts[2]	3	–
SPCM 101	Introduction to Oral Communication	–	3
Select	Integrative Studies[2]	–	3
BIOL 307	Environmental Biology	3	–
FOR 201	Ecology of North American Forests	3	–
FOR 202a,b	Tree Identification Lab	1	1
FOR 331	Forest Ecosystems	–	3
MATH 282/283/ PLB 360/ ABE 318	Introduction to Statistics *or* Introduction to Applied Statistics *or* Introductory Biostatistics *or* Agribusiness Statistical Methods	–	3
PLSS 240	Soil Science	4	–
		17	16

[1] Fulfills a university core curriculum science requirement.
[2] See "University Core Curriculum," p. 39.

Third and Fourth Years

The last two years of study are concentrated in a series of forestry and related courses that enable students to develop professional competencies in the management of forest resources. Students learn to apply their professional skills during a five-week early summer camp immediately following the junior year.

Forestry as a Major

Available to the Department of Forestry for teaching and research are the Crab Orchard National Wildlife Refuge, the Shawnee National Forest, the Union State Forest and Tree Nursery, and many state parks and conservation areas, comprising several hundred thousand acres of forest land in the vicinity of the University. Also accessible for teaching and research is a modern wood products plant east of Carbondale. Staff members of the U.S. Forest Service North Central Forest Experiment Station are affiliated with the Department of Forestry and help to enrich the University's forestry program.

Representative First Job Titles: agricultural aide, recreational resource planner, forest engineer, silviculture specialist, forest manager, watershed manager, wildlife manager, forest products technologist, animal ecologist, plant ecologist, pollution control specialist, forest conservation specialist, public and environmental health forester, parks supervisor, grazing lands supervisor, research forester, forest extension worker, timber manager, park ranger, soil conservationist, forest resources manager.

Forestry

(Outdoor Recreation Resources Management Specialization)
College of Agriculture
(Bachelor of Science)

Dr. Dwight R. McCurdy, Chair
Telephone 618 453-3341
184 Agriculture Building

The bachelor of science degree program with a specialization in outdoor recreation resources management meets the objectives of students seeking careers in managing and administering wildlands for outdoor recreation and park uses in a variety of agencies that operate in diverse geographic and natural settings.

The specialization provides interdisciplinary professional training in developing, maintaining, and managing forests and wildlands as recreational areas, and is accredited by the Society of American Foresters. The courses offered are among those recommended by the National Recreation and Park Association.

NOTE: The following is a *suggested* curriculum. For specific information consult the *1996-97 Undergraduate Catalog.*

First Year		Fall	Spring
Select	Fine Arts[1]	–	3
Select	Social Science[1]	3	–
ENGL 101,102	Composition I *and* Composition II	3	3
Select	Human Health[2]	–	2
CHEM 140a,b	Chemistry (organic/inorganic)[2]	4	4
FOR 200	Introduction to Forestry	1	–
MATH 110/140	Nontechnical Calculus *or* Calculus I	–	4
PLB 200	General Plant Biology with Lab[2]	4	–
		15	16

Second Year		Fall	Spring
Select	Integrative Studies[1]	3	–
Select	Humanities[1]	3	3
SPCM 101	Introduction to Oral Communication	–	3
GEOG 310	Introductory Cartography	–	3
FOR 201	Ecology of North American Forests	3	–
FOR 202a,b	Tree Identification Lab	1	1
FOR 331	Forest Ecosystems	–	3
MATH 282/283/ PLB 360/ ABE 318	Introduction to Statistics *or* Introduction to Applied Statistics *or* Introductory Biostatistics *or* Agribusiness Statistical Methods	–	3
PLSS 240	Soil Science	4	–
		16	16

[1] Fulfills a university core curriculum science requirement.
[2] See "University Core Curriculum," p. 39.

Third and Fourth Years

Professional and related courses developing competence in management of forest recreational resources are emphasized during the junior and senior years. A two-week summer tour through selected sections of the U.S. to study outdoor recreation and park is usually taken in the summer following the third year.

Forestry as a Major

Available to the Department of Forestry for teaching and research are the Crab Orchard National Wildlife Refuge, the Shawnee National Forest, the Union State Tree Nursery and Forest, and many state parks and conservation areas, comprising several hundred thousand acres of forest land, in the vicinity of the University. Also accessible for teaching and research is a modern wood products plant east of Carbondale. Staff members of the Forest Service North Central Forest Experiment Station are affiliated with the Department of Forestry and help to enrich the University's forestry program.

Representative First Job Titles: agricultural aide, 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. Thomas Keller, Chair
Telephone 618 536-5571
2162 Faner Hall

The bachelor of arts degree program in foreign language meets the objectives of students preparing for employment in language-centered careers or in non-language areas where language proficiency is a supporting factor. Government agencies and businesses with international dealings employ great numbers of individuals—scientists, engineers, librarians, social workers—whose primary skills are basically non-linguistic, but who can enhance their employment and career possibilities with appropriate training in foreign languages.

Great personal satisfaction and substantial growth in intellectual resources can be found in the mastery of a new language.

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 course work on East Asian civilization for students who have a professional or occupational interest in Asia.

Students majoring in a foreign language usually begin at the second or third level. Students who have taken two years of one foreign language in high school (or equivalent) may earn proficiency credit through taking a proficiency examination in Latin, at Testing Services, or in Chinese, Greek, Japanese, or Russian at the foreign languages and literatures department. The Department of Foreign Languages and Literatures will honor CLEP exams in French, German, and Spanish. As an alternative, or for additional credit, students *who can enter at the 200 level or above* are encouraged to take a validating course. Since credit of up to 16 hours is available, such students are in an advantageous position to complete a double major.

NOTE: The following is a *suggested* curriculum. For specific information consult the *1996-97 Undergraduate Catalog.*

First Year		Fall	Spring
Select	Science[1]	–	3
Select	Social Science[1]	3	3
Select	Humanities[1]	3	–
ENGL 101,102	Composition I *and* Composition II	3	3
Select	Mathematics[1]	–	3
Select	Human Health[1]	2	–
FR 123a,b/201a,b	Elementary French *or* Intermediate French[2]	4	4
		15	16
Second Year			
Select	Science[1,3]	3-4	3-4
Select	Fine Arts[1]	–	3
Select	Humanities[1]	3	–
SPCM 101	Introduction to Oral Communication	3	–
FR 220a,b	Intermediate French Conversation[4]	2	2
FR 201a,b/	Intermediate French *or* Advanced	4	4
320,321	Language Skills *and* Advanced Conversation[5]	(4)	(3)
Select	Integrative Studies[1]	–	3
		15/16	15/16

* See also Foreign Languages (Teaching), p. 123.

1 See "University Core Curriculum," p. 39.

2 Two semesters (generally 8 semester hours) of a foreign language are required for all liberal arts students. This first year of French does not count toward the major.

3 SIUC College of Liberal Arts requires one science with lab in addition to the university core curriculum science requirement.

4 French 200a,b is recommended but does not usually count towards major or minor requirements.

5 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.

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. 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

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

Dr. David Sharpe, Chairperson
Telephone 618 536-3375
4520 Faner Hall

The Department of Geography specializes in environmental planning and in cartography and geographic information management. Students may earn the bachelor of arts or the bachelor of science degree. The degree programs in liberal arts meet the objectives of students preparing for graduate work or careers in industry and governmental agencies.

The programs offer a variety of courses. A typical program for the freshman and sophomore years is listed below.

NOTE: The following is a *suggested* curriculum. For specific information consult the *1996-97 Undergraduate Catalog.*

First Year		Fall	Spring
Select	Science[1]	3	3
GEOG 103	World Geography	3	–
Select	Humanities[1]	3	3
ENGL 101,102	Composition I *and* Composition II	3	3
MATH 108	College Algebra[2]	–	3
Select	Human Health[1]	2	–
Select	Fine Arts[1]	–	3
		14	15

Second Year		Fall	Spring
Select	Science with lab[3]	3	–
Select	Social Science[1]	–	3
SPCM 101	Introduction to Oral Communication	–	3
Select	Foreign Language[4]	4	4
GEOG 300	Introduction to Geography	3	–
GEOG 310/320	Introductory Cartography *or* Introductory Environmental Planning	–	3
Select	Integrative Studies[1]	3	3
Select	elective	3	–
		16	16

[1] See "University Core Curriculum," p. 39.

[2] Geography requires one college-level mathematics course in addition to the university core curriculum requirement. Choose from

[3] SIUC College of Liberal Arts requires one science course with lab in addition to the university core curriculum science requirement.

[4] Two semesters (generally 8 hours) of a foreign language are required for all liberal arts students.

Geography as a Major

Students majoring in geography will take many other courses in the junior and senior years, including studies of natural resources planning, water resources hydrology, recreation, planning, environmental systems analysis, computer cartography, geographic information systems, and other courses in environmental planning or geographic techniques. Geography majors must also have a minor (e.g. geology, forestry, economics environmental studies).

The Department of Geography has an abundance of resources to support its instructional program. Morris Library contains over 100,000 maps. The department also maintains a cartographic laboratory, where students obtain training in map construction, and the Spatial and Environmental Analysis Laboratory (SEAL). The personal computer facilities of SEAL are used extensively for computer-assisted instruction in geographic techniques and environmental planning.

Representative First Job Titles: geographer, environmental planner, cartographer, geographic information systems specialist, regional analyst, map librarian, location analyst, sales representative, planner, conservation specialist, recreation planner, water resources planner.

Geology

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

Dr. Jay Zimmerman, Chair
Telephone 618 453-3351
FAX 618 453-7393
102 Parkinson Laboratory

Geology deals with the earth—its materials, processes, and history. Students in geology can work toward a bachelor of arts or a bachelor of science degree. The bachelor of science degree program is recommended for those planning to pursue graduate studies or a professional career in geology. The bachelor of arts degree program is recommended for students who plan to combine geologic education with other interests, such as law, engineering, biology, business, or teaching.

Both field and laboratory studies are important aspects of geological work. Employment opportunities for geologists are found in state and federal geological surveys; private and public organizations concerned with the quality and development of water resources; engineering firms; government agencies dealing with planning, land use, geologic hazards, construction, and hazardous waste disposal; and the petroleum, coal, and other mining industries. Other geologists become teachers at a variety of levels, from grade school to college.

NOTE: The following is a *suggested* curriculum. For specific information consult the *1996-97 Undergraduate Catalog.*

First Year		Fall	Spring
Select	Social Sciences[1]	–	3
ENGL 101,102	Composition I *and* Composition II	3	3
Select	Human Health[1]	2	–
CHEM 200,201	Introduction to Chemical Principles[2]	4	–
CHEM 210,211	General and Inorganic Chemistry and Lab	–	4
GEOL 220	Physical Geology[3]	3	–
GEOL 221	Earth through Time	–	3
MATH 108,109/ 111	College Algebra *and* Trigonometry *or* Pre-Calculus	3/5	3/0
		15/17	16/13

Second Year		Fall	Spring
Select	Social Sciences[1]	–	3
Select	Humanities[1]	–	3
SPCM 101	Introduction to Oral Communication	3	–
Select	Fine Arts[1]	–	3
Select	German, Russian, French, *or* Spanish *(recommended)*[2]	4	4
GEOL 310/ MATH 150	Mineralogy[4] *or* Calculus I[5]	4	–
PHYS 203a,b/ 205a,b	College Physics *or* University Physics[5]	3	3
PHYS 253a,b/ 255a,b	College Physics Lab *or* University Physics Lab	1	1
		15	17

1 See "University Core Curriculum," p. 39.
2 Students in the College of Science must take one year of foreign language, one year of math, six semester hours of physical sciences, and six semester hours of biological sciences.
3 Fulfills a university core curriculum science requirement.
4 If more advanced geology courses such as mineralogy are not offered at your school, take calculus, social studies, humanities, plant biology or zoology instead. Our program is designed so that transfer students can easily finish the geology curriculum in two years if they have taken most of the specified courses in chemistry, physics, foreign language and mathematics.
5 Math 150 must be taken before or at the same time as Physics 205.

Third and Fourth Years

The last two years of the program allow concentration on professional objectives. Students in the bachelor of arts degree program take required courses in geology, and additional courses in biology, social studies, and humanities, and a large number of free electives. Students in the bachelor of science degree program take required geology courses and geology electives, additional courses in social studies and humanities, biology, a science or technology elective, and free electives.

Geology as a Major

The department has excellent laboratory and field equipment, and students are encouraged to use it in independent study projects as well as supervised study. With few exceptions, classes for geology majors tend to be small, and students work closely with the faculty and receive individual attention both in and outside the classroom. The department helps students find suitable graduate programs or jobs in geology and related areas. A summer field course in the Rocky Mountains, normally taken between the junior and senior years, is required for the B.S. degree and is strongly recommended for the B.A. degree.

SIUC is in a particularly interesting geologic location, embracing a diversity of rock formations, deposits of oil, coal, gas, and fluorite, and a great variety of terrain.

Representative First Job Titles: geologist, coal geologist, cartographer, environmental scientist, economic geologist, exploration geologist, inorganic geochemist, organic geochemist, isotope geochemist, engineering geologist, geological oceanographer, geological researcher, geophysical exploration scientist, geophysicist, groundwater geologist, hydrogeologist, volcanologist, igneous petrologist, metamorphic petrologist, petroleum geologist, photogeologist, resource evaluator, sedimentologist, stratigrapher, field geologist, geologic mapper, geomorphologist, structural geologist, product studies and testing geologist, seismologist, paleontologist, laboratory assistant, teacher, professor, geologic data analyst.

German[1]

College of Liberal Arts
(Bachelor of Arts)

Dr. Thomas Keller, Chair
Telephone 618 536-5571
2162 Faner Hall

The bachelor of arts degree program in foreign language meets the objectives of students preparing for employment in language-centered careers or in non-language areas where language proficiency is a supporting factor. Government agencies and businesses with international dealings employ great numbers of individuals—scientists, engineers, librarians, social workers—whose primary skills are basically non-linguistic, but who can enhance their employment and career possibilities with appropriate training in foreign languages.

Great personal satisfaction and substantial growth in intellectual resources can be found in the mastery of a new language.

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 course work in East Asian civilization for students who have a professional or occupational interest in Asia.

Students majoring in a foreign language usually begin at the second or third level. Students who have taken two years of one foreign language in high school (or equivalent) may earn proficiency credit through taking a proficiency examination in Latin, at Testing Services, or in Chinese, Greek, Japanese, or Russian at the foreign languages and literatures department. The Department of Foreign Languages and Literatures will honor CLEP exams in French, German, and Spanish. As an alternative, or for additional credit, students *who can enter at the 200 level or above* are encouraged to take a validating course. Since credit of up to 16 hours is available, such students are in an advantageous position to complete a double major.

NOTE: The following is a *suggested* curriculum. For specific information consult the *1996-97 Undergraduate Catalog.*

First Year		Fall	Spring
Select	Science[2]	–	3
Select	Social Science[2]	3	3
Select	Humanities[1,2]	3	–
ENGL 101,102	Composition I *and* Composition II	3	3
Select	Mathematics[2]	–	3
Select	Human Health[2]	2	–
GER 126a,b	Elementary German[3]	4	4
		15	16

Second Year		Fall	Spring
Select	Science[2,4]	3/4	3/4
Select	Fine Arts[2]	–	3
Select	Humanities[2]	3	–
SPCM 101	Introduction to Oral Communication	3	–
GER 201a,b	Intermediate German[3]	4	4
Select	Integrative Studies	–	3
		13/14	13/14

1 See also Foreign Languages (Teaching), p. 123.
2 See "University Core Curriculum," p. 39.
3 Two semesters (generally 8 semester hours) of a foreign language are required for all liberal arts students. The first year of German does not count toward the major.
4 SIUC College of Liberal Arts requires one science course with lab in addition to the university core curriculum science requirement.
5 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.

German as a Major

A major in German consists of 36 semester hours in courses above the 100 level, including the basic language sequence, 12 hours on the 300 level (to include 320) and 12 hours on the 400 level, one literature course (300 or 400 level), and 4 hours of electives on the 300 or 400 level. A minor in German consists of 18 semester hours in courses above the 100 level.

Transfer students who major in a foreign language must complete a minimum of 12 semester hours in language courses at SIUC.

Representative First Job Titles: airline stewardess, customer services personnel, executive secretary, copywriter, reporter, technical writer, educational television staff, manufacturer's representative, sales agent, recreation specialist, interpreter.

Health Care Management

College of Technical Careers
(Bachelor of Science)

Frederic Morgan, Chair
Telephone 618 453-7211
126 Technical Careers Building

The associate in applied science degree program in health care management provides course work and experience for all types of health care supervision and management to students with A.A.S. degrees or other health backgrounds who want to augment their technical training.

Through a combination of core courses, major requirements, approved major electives, and SIUC university core curriculum, the health care management major prepares students for supervisory and administrative positions in such health and medical care facilities as hospitals, nursing homes, public health departments, and health care training institutions.

The 41-semester-hour university core curriculum requirement may be satisfied by course credits from any accredited college or university or 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, which reduces the hours required in university core curriculum from 41 to 30. Students may also receive credit for previous educational, military, and occupational experience. Credit is established by departmental evaluation. Field internships and independent study opportunities are available on approval by the student's faculty adviser.

NOTE: The following is a *suggested* curriculum. For specific information consult the *1996-97 Undergraduate Catalog.*

First Year		Fall	Spring
Select	Science[1]	–	3
SPCM 101	Introduction to Oral Communication	–	3
Select	Humanities[1]	3	3
MATH 110	Non-Technical Calculus	3	–
ENGL101,102	Composition I *and* Composition II	3	3
Select	Human Health[1]	2	–
Select	Fine Arts[1]	3	–
Select	Social Science[1]	–	3
		14	15

Second Year		Fall	Spring
Select	Science[1]	3	–
Select	Social Science[1]	3	–
Select	Multicultural Studies[1]	–	3
Select	Interdisciplinary Studies[1]	3	–
Select	Approved electives	6	12
		15	15

[1] See "University Core Curriculum," p. 39.

Third and Fourth Years		
HCM 360	U.S. Health Care System	3
HCM 364	Health Care Supervision	3
HCM 365	Data Applications for Health Professionals	3
HCM 366	Technical Information for Health Managers	3
Health Care Management Specialization Requirements - Minimum 15 hours		
HCM 381	Health Care Management	3
HCM 382	Health Economics	3
HCM 384	Equipment and Material Management	3
HCM 385	Fiscal Aspects of Health Facilities	3
HCM 388	Legal Aspects of Health Care	3
HCM 390	Labor/Management Relations	3
HCM 398	Risk Management	3
HCM 421	Professional Practice in Health Care Management	3
	Approved Electives in Health Care	22
	Internship in Health Care Management	12
	All elective, specialization, and internship courses must be approved by adviser.	

Those planning to sit for the Illinois Nursing Home Licensure Examination may complete a course of study in nursing home administration (listed below) that is approved under Title 68:Section 310.40 of the Rules for Nursing Home Administrators Licensing Act.

HCM 364	Health Care Supervision	3
HCM 385	Fiscal Aspects of Health Facilities	3
HCM 413	Nursing Home Management	3
HED 440 *or* REHB 446	Health Issues in Aging *or* Psychosocial Aspects of Aging	3

Health Education

(Community Health)
College of Education*
(Bachelor of Science)

Jacquelyn Bailey
Chief Academic Adviser
Telephone 618 453-2354
135 Wham Building

Dr. Regina Glover, Chair
Telephone 618 453-2777
307 Pulliam Hall

The Department of Health Education offers two bachelor of science degree specializations in the health education major and two programs of minimal professional preparation.

The *community health* specialization is for those planning to conduct health education and health promotion activities in non-classroom settings. The *health education in secondary schools* specialization is for those planning to teach or supervise health education in secondary schools.

The minimal *health education in secondary schools* program is for those certified to teach in Illinois secondary schools who want preparation to teach health education. The *driver education* program is for those planning to teach driver education in Illinois secondary schools. (See following page).

Students planning to teach in secondary schools should consult the teacher education program admission requirements on p. 14.

Because these programs present only minimal preparation for the positions listed, 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.

NOTE: The following is a *suggested* curriculum. For specific information consult the *1996-97 Undergraduate Catalog.*

First Year		Fall	Spring
Select	Science[1]	3	3
Select	Social Science[1]	3	3
Select	Humanities[1]	3	3
ENGL 101,102	Composition I *and* Composition II	3	3
HED 101	Foundations of Human Health[1]	2	–
Select	Electives	3	3
		17	15

Second Year		Fall	Spring
Select	Fine Arts[1]	3	–
SPCM 101	Introduction to Oral Communication[1]	–	3
Select	Integrative Studies[1]	3	3
Select	Mathematics[1]	3	–
Select	Electives[2]	6	6
		15	15

* See "College of Education," p. 45, for teacher certification requirements.

[1] See "University Core Curriculum," p. 39.

Third and Fourth Years

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

Community Health as a Major

For those planning to conduct health education and health promotion activities in non-classroom settings, the curriculum in community health includes advanced concepts of health, evaluation in health education, consumer health, community health administration in the United States, and environmental dimensions of health education. Students will also complete a field experience in a health or safety agency.

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

Health Education

(School Health Education)
College of Education*
(Bachelor of Science)

Jacquelyn Bailey
Chief Academic Adviser
Telephone 618 453-2354
135 Wham Building
Dr. Regina Glover, Chair
Telephone 618 453-2777
307 Pulliam Hall

The Department of Health Education offers two bachelor of science degree specializations in the health education major and two programs of minimal professional preparation.

The *school health education* specialization is for those planning to teach or supervise health education in secondary schools. The *community health* specialization is for those planning to conduct health education and health promotion activities in non-classroom settings.

The minimal *health education in secondary schools* program is for those certified to teach in Illinois secondary schools who want preparation to teach health education. The *driver education* program is for those planning to teach driver education in Illinois secondary schools.

Students planning to teach in secondary schools should consult the teacher education program admission requirements on p. 14.

Because these programs present only minimal preparation for the positions listed, 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.

NOTE: The following is a *suggested* curriculum. For specific information consult the *1996-97 Undergraduate Catalog.*

First Year		Fall	Spring
Select	Science[1]	3	3
PSYC 202	Introduction to Psychology	3	–
HIST 101A	The History of World Civilizations[1]	3	3
ENGL 101,102	Composition I *and* Composition II[1,2]	3	3
MATH 110/113	Non-Technical Calculus *or* Introduction to Contemporary Mathematics	–	3
HED 101	Foundations of Human Health[2]	–	2
Select	Fine Arts[1]	3	–
		15	14

Second Year		Fall	Spring
Select	Science[1]	–	4
POLS 114	American Government and Politics	–	3
HIST 110	Introduction to American Government and Politics	3	–
ENGL 121/204	The Western Literary Tradition *or* Literary Perspective on the Modern World	3	–
SPCM 101	Introduction to Oral Communication	3	
Select	Multicultural Studies[1]	3	–
Select	Electives[3]	3	9
		15	16

[1] See "University Core Curriculum," p. 39.
[2] See SIUC College of Education Advisement Center for course recommendations.

University core curriculum courses required for teacher certification include PSYC 102, Introduction to Psychology; POLS 114, Introduction to American Government and Politics; HIST 110, Twentieth Century America; ENGL 101 and 102, Composition I and II; SPCM 101, Introduction to Oral Communication; HED 101, Foundations of Human Health or PE 101, Current Concepts of Physical Fitness; and one English literature course. At least one three-semester-hour course must be taken in non-Western or Third World cultures.

[3] A course in anatomy and physiology is required.

School Health Education as a Major

Offered for those planning to teach in high schools, the curriculum for health education in secondary schools includes principles and foundations of health education, emotional health, safety education, and sex education. Students acquire the tools for teaching through both content and methods-and-materials courses. Students must also complete the College of Education professional education requirements. Another program option, which provides minimal professional preparation, is designed for those planning to teach or supervise health education in secondary schools.

History[1]

College of Education
(Bachelor of Science)

Jacquelyn Bailey
Chief Academic Adviser
Telephone 618 453-2354
135 Wham Building

At one time, people thought teaching was the only thing one could do with a degree in history. Nowadays, although most history majors enter other fields, those who choose to become educators will find history an excellent discipline. More than a million new teachers will be needed in the U.S. during the next decade or so, and many of them will be teachers of history at the high school and junior high school levels.

The bachelor of science degree program in history consists of 36 semester hours in history courses. Six courses must be evenly distributed over either two or three fields chosen from American, European, or Third World history offerings—either two courses in each of the three fields or three courses each in two of the three fields. Illinois state certification requires a minimum of 8 semester hours of American history. Students must also complete 12 hours at the 400 level.

NOTE: The following is a *suggested* curriculum. For specific information consult the *1996-97 Undergraduate Catalog.*

First Year		Fall	Spring
Select	Science[2]	3	3
PSYC 102	Introduction to Psychology	3	–
Select	Fine Arts[3]	3	–
ENGL 101,102	Composition I *and* Composition II[1]	3	3
SPCM 101	Introduction to Oral Communication	–	3
HED 101/PE 101	Foundations of Human Health *or* Current Concepts of Physical Fitness	–	2
HIST 205A, B	History of Western Civilization I *and* II	3	3
		15	14[4]

Second Year		Fall	Spring
Select	Integrative Studies[2,5]	3	–
POLS 114	Introduction to American Government and Politics	–	3
HIST 110	Twentieth Century America	–	3
Select	approved English literature course	3	–
Select	approved non-Western or Third World culture course[5]	–	3
Select	Mathematics[2]	–	3
HIST 300	Origins of Modern America, 1492–1877	3	–
Select	electives	6	4
		15	16

1 See also "College of Liberal Arts," p. 48.
2 See "University Core Curriculum," p. 39.
3 Choose from AD 101, MUS 103, HIST 201, and THEA 101.
4 Immediately after completing 30 hours of college credit (including ENGL 101 and 102) with an overall GPA of 2.5 (4.0 = *A*) or higher, students should apply to the SIUC College of Education teacher education program.
5 Contact SIUC College of Education Advisement Center for course recommendations.

History as a Major

The bachelor of arts degree combines intensive study of history with a broad background in humanities and social sciences.

University core curriculum courses required for teacher certification include PSYC 102, Introduction to Psychology; POLS 114, Introduction to American Government and Politics; HIST 110, Twentieth Century America; ENGL 101 and 102, Composition I and II; SPCM 101, Introduction to Oral Communication; HED 101, Foundations of Human Health or PE 101, Current Concepts of Physical Fitness; and one English literature course. At least one three-semester-hour course must be taken in non-Western or Third World cultures.

Students planning to teach in secondary schools should consult the teacher education program admission requirements on p. 14.

History*

College of Liberal Arts
(Bachelor of Arts)

Dr. David P. Werlich, Chair
Telephone 618 453-4391
3281 Faner Hall

The bachelor of arts degree program in history consists of 36 semester hours. Courses in American history, Western civilization, European history, and research writing are required, and four courses at the 400 level must be completed. History electives are taken in two or more fields of history.

NOTE: The following is a *suggested* curriculum. For specific information consult the *1996-97 Undergraduate Catalog.*

First Year		Fall	Spring
Select	Science[1]	3	3
Select	Fine Arts[1]	–	3
ENGL 101,102	Composition I *and* Composition II	3	3
Select	Mathematics[1]	3	–
SPCM 101	Introduction to Oral Communication	–	3
Select	Human Health[1]	2	–
HIST 205	Western Civilization[2]	3	3
		14	15

Second Year		Fall	Spring
Select	Science[3]	3	–
HIST 301	Modern America—from 1877 to the Present[2]	–	3
Select	Social Science[1]	–	3
Select	Foreign Language[4]	4	4
HIST 300	Origins of Modern America, 1492–1877[2]	3	–
Select	Humanities[1]	3	3
Select	Elective[5]	3	3
		16	16

* See "College of Education," p. 45.

1 See "University Core Curriculum," p. 39.

2 Required by the major.

3 SIUC College of Liberal Arts requires one science course with lab in addition to the university core curriculum science requirement.

4 Two semesters (generally 8 semester hours) of a foreign language are required for all liberal arts students.

5 Elective hours should be used to explore areas of interest, to enhance career opportunities, or to satisfy liberal arts requirements (see "College of Liberal Arts," p. 48).

Third and Fourth Years

History students have great flexibility in designing a third-and-fourth-year program to meet specific career goals. Minimum requirements demand an additional 20 hours in the major, averaging one or two courses a semester. Additional courses, such as computer science, foreign languages, secondary education, or journalism, may be devoted to studying some field of history in greater depth or to developing a strong secondary field or job skill.

Transfer students should, if possible, contact the department before their first semester of attendance. Transfer students must earn at least 16 semester hours of history credit at SIUC.

History as a Major

Teaching history can be a fine career, although the majority of history graduates enter other fields. Students with a background in history are often employed in library and archival work, government or diplomatic service, or news and special events reporting. SIUC history graduates currently occupy positions in institutions ranging from the CIA and Chase-Manhattan Bank through Sears Roebuck, British Airways, ABC, and Time-Life. The study of history 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.

Industrial Technology

College of Engineering
(Bachelor of Science)

Dr. Gary J. Butson
Telephone 618 536-3396
D121 Engineering Building

The bachelor of science degree program in industrial technology meets the needs of students preparing for careers as management-oriented technical professionals in the economic enterprise system. Although there are two specializations—*manufacturing technology* and *mining technology*—the mining technology specialization is presently inactive.

The industrial technology program has three themes. Students become familiar with the theories, concepts, and principles found in the humanities and the social and behavioral sciences and acquire a thorough grounding in communications skills. They learn to understand and apply principles and concepts of mathematical and physical sciences. They learn to use concepts and current skills in a variety of technical disciplines that include robotics, processes, computer aided manufacturing, quality control, motion and time study, plant layout, materials handling, industrial safety, production and inventory control, human relations, and computer aided drafting.

NOTE: The following is a *suggested* curriculum. For specific information consult the *1996-97 Undergraduate Catalog.*

First Year		Fall	Spring
PLB 115/117	General Biology *or*		
/ZOOL 115	Plants and Society	–	3
Select	Social Science[1]	3	3
Select	Humanities[1]	–	3
ENGL 101,102	Composition I *and* Composition II	3	3
Select	Human Health[1]	2	–
IT 105	Computer Aided Drafting (CAD)	3	–
MATH 111	Pre-Calculus[3]	5	–
MATH 140	Short Course in Calculus	–	4
		16	16

Second Year		Fall	Spring
Select	Integrative Studies[1]	3	3
Select	Humanities[1]	3	–
SPCM 101	Introduction to Oral Communication	3	–
Select	Fine Arts[1]	–	3
CS 212	Introduction to Business Computing	–	3
IT 208	Fundamentals of Manufacturing Processes	3	–
IT	Elective	–	3
PHYS 203a,b	College Physics[3]	3	3
PHYS 253a,b	College Physics Lab	1	1
		16	16

[1] See "University Core Curriculum," p. 39.
[2] PSYC 102 recommended, not required.
[3] Substitutes for university core curriculum.

Industrial Technology (Manufacturing) as a Major

Community college occupational and technical credits from courses such as data processing, electronics technology, management, marketing, mechanical technology, metals technology, plastics, transportation, building construction, and architectural drafting may be applicable towards degree requirements, permitting students to obtain a B.S. degree in a minimum length of time. The recommended guidelines for the bachelor's degree are met through the completion of 39 semester hours in the industrial technology core and 30 hours in the technical specialization.

The courses required for transfer students with associate in applied science degrees from an occupational program are dependent on the student's previous program. For each specialization (manufacturing and mining), 30 hours in industrial technology courses must be taken at SIUC. A Capstone Option may be available in the industrial technology degree program. Students' Capstone Option application must be on file by the end of their first semester at SIUC. Additional qualification requirements are detailed under Capstone Option, p. 34.

Career Opportunities

Employment opportunities for graduates are excellent, permitting a wide choice of initial positions and flexibility for later job promotion or transfer. Federal statistics show that the need for technologists and related workers will continue throughout the present decade. All types of industry have positions 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 manager, first line supervisor, operations planner, marketing support manager, salary administrator, plant location manager.

Industrial Technology (Mining) as a Major — Inactive

Interior Design

College of Technical Careers
(Bachelor of Science)

Denny Hays
Program Representative
Telephone 618 453-3734
410 Quigley Hall

The bachelor of science degree program in interior design meets the objectives of students preparing for careers with interior design/space planning firms, with architectural firms as the interior designers or interior design team members, as facilities planners for corporations, institutions, and governmental agencies, in industry design sales, and in private practice.

The interior design major offered by the College of Technical Careers is an architecturally oriented program accredited by the Foundation for Interior Design Education Research (FIDER). Students receive a comprehensive, interdisciplinary education in preparation for designing and administrative positions in the fields of residential, commercial, and contract design.

Opportunities in interior design and architecture are more open and exciting than ever before. The need for craftspeople versed in the vocabulary of interior design and architecture offers extensive professional opportunities. SIUC offers a comprehensive four-year program that encourages creative thinking and willingness to develop alternative solutions based on project requirements that include client need, the budget, and the project schedule. Students learn to communicate this information verbally and graphically, using drawings, plans, elevations, sections, details, perspectives, axonometric drawings, and illustrations of suggested furniture, lighting, color, materials, and finishes.

NOTE: The following is a *suggested* curriculum. For specific information consult the *1996-97 Undergraduate Catalog.*

First Year		Fall	Spring
AD 101	Introduction to Art[1]	–	3
SPCM 101	Introduction to Oral Communication[1]	3	–
ENGL 101,102	Composition I *and* Composition II[1]	3	3
ART 110, 120	Introduction to Drawing I, II[2]	3	3
ID 111	Basic Design Studio I[2]	4	–
ID 112	Basic Design Studio II[2]	–	4
ID 121	Basic Interior Design Drawing I[2]	3	–
ID 122	Basic Interior Design Drawing II[2]	–	3
		16	16

Second Year*		Fall	Spring
Select	Mathematics[3]	–	3
Select	Science[3]	3	–
Select	Human Health[3]	–	2
ID 211	Color Theory[2]	3	–
ID 271,272	Interior Construction I *and* II[2]	3	3
ID 251	Presentation, Media, and Technique[2]	3	–
ID 274	Materials and Specifications[2]	–	3
ID 231, 232	History of Interior Design and Architecture I *and* II[2]	3	3
ID 252	Interior Design Programming I[2]	–	3
WED 335	Basic Textiles[2]	2	–
		17	17

* Transfer students should concentrate on completing university core curriculum courses, since major courses should be taken at SIUC. Because of required sequences of laboratory/studio classes in interior design, the community-college transfer students who have completed an associate degree will require three years additional study to complete the baccalaureate degree.

1 Required university core curriculum courses for interior design majors.

2 These courses are required for all interior design majors. For specific information regarding the acceptability of a major requirement from another institution, you may contact the ID program representative. *A portfolio of work must be presented* and a proficiency examination successfully completed for transfer credit.

3 See "University Core Curriculum," p. 39.

Third and Fourth Years

Education during the third and fourth years consists of advanced design studios and specialized courses in interior design and architecture. Special emphasis is given to departmental requirements and remaining university core curriculum. Third- and fourth-year interior design courses include ID 351, 371, 372, 432, 451, 471; 3 hours of professional electives; and ID studios 391, 392, 491 and 492.

Journalism

(News—Editorial)
(Advertising)
College of Mass Communication and Media Arts
(Bachelor of Science)

Director
Telephone 618 536-3361
North Wing Communications Building

Journalism courses combine rigorous grounding in liberal arts studies with professional preparation for careers in the media industries. The bachelor of science advertising and news-editorial degree programs meet the objectives of students considering career opportunities in news-editorial and advertising positions with newspapers, magazines, industrial publications, and other news media; in persuasive uses of communications in advertising and public relations; and in media research work.

The *advertising* specialization is a broad selection of intensive, specialized courses for students interested in such fields as sales, copy writing, production, administration, retailing, and agency work.

The *news-editorial* specialization provides strong training in writing, reporting, and editing, with a range of electives that introduce students to the variety of positions available in the news industry.

Undergraduates are urged to enter the School of Journalism as freshmen to obtain the advantage of journalism advisement. Successful completion of a language skills examination and proficiency in typing (30 words a minute) are required to enter the first writing course: JRNL 309 or JRNL 310.

NOTE: The following is a suggested curriculum. For more specific information consult the *1996-97 Undergraduate Catalog.*

First Year		Fall	Spring
Select	Science[1]	3	3
Select	Social Studies[1]	3	3
Select	Humanities[1]	3	3
ENGL 101,102	Composition I *and* Composition II[1]	3	3
Select	Mathematics[1]	–	3
Select	Human Health[1]	2	–
		14	15

Second Year		Fall	Spring
Select	Fine Arts[1]	3	–
Select	Integrative Studies[1]	3	3
SPCM 101	Introduction to Oral Communication	–	3
MCMA 201	Media in Society	–	3
Select	Minor course work		3
Select	Electives	6	3
		15	15

[1] See "University Core Curriculum," p. 39.

Journalism as a Major

In addition to the university core curriculum courses, the academic requirements for a bachelor of science degree in journalism include 30–36 semester hours in journalism course work approved by the school, 29–34 hours of upperclass electives outside the area of journalism, and 15 hours in a minor area approved by the school.

Students at community colleges are encouraged to complete university core curriculum courses and earn electives in areas of interest. Students must take 30 hours of journalism at SIUC.

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

The School of Journalism is accredited by the Accrediting Council on Education in Journalism and Mass Communications, which has certain requirements that must be met. A major must complete a minimum of 90 semester hours outside journalism and mass communication courses, with a minimum of 65 of these in liberal arts courses. The student, with the assistance of the journalism academic adviser, should exercise care in course selection to assure that these requirements are met.

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 specialist, public relations representative, public opinion researcher, reporter, retail advertising director, sports reporter, telecommunications consultant.

Linguistics

College of Liberal Arts
(Bachelor of Arts)

Dr. Paul J. Angelis, Chair
Telephone 618 536-3385
3236 Faner Hall

The bachelor of arts degree program in linguistics presents an introduction to the nature of language as a human activity. The methodology of linguistics has been adopted by fields as diverse as anthropology, law, psychology, and computer science, where linguists contribute to the design of speech synthesizers, computer speech understanding systems, and natural language processing

Linguistics theory deals with issues such as: How much of language is learned and how much is determined by the innate structure of the human mind? How and why do languages change? How and why do people talk differently in different parts of a country?

The SIUC Department of Linguistics also specializes in applied linguistics, which deals with the teaching of English as a second language.

NOTE: The following is a *suggested* curriculum. For specific information consult the *1996-97 Undergraduate Catalog.*

First Year		Fall	Spring
Select	Science[1]	–	3
Select	Social Science[1]	3	3
Select	Humanities[1]	3	–
ENGL 101,102	Composition I *and* Composition II	3	3
Select	Mathematics[1]	–	3
Select	Human Health[1]	2	–
Select	Foreign Language[2]	4	4
		15	16

Second Year		Fall	Spring
Select	Science[1,3]	3/4	3/4
Select	Fine Arts[1]	3	–
Select	Humanities[1]	–	3
SPCM 101	Introduction to Oral Communication	–	3
LING 200	Introduction to the Nature of Language	3	–
Select	Foreign Language Second Year[2]	4	4
LING 300	Introduction to Descriptive Linguistics	–	3
LING 104	Grammar in Language	2	–
		15/16	16/17

[1] See "University Core Curriculum," p. 39.

[2] Linguistics majors who are native speakers of English are required to take either one year of an uncommon or non-Western language or two years of any foreign language. Students planning graduate study in linguistics should take three years of foreign language study. Two semesters (generally 8 semester hours) of a foreign language are required for all liberal arts students.

[3] SIUC College of Liberal Arts requires one science course with lab in addition to the university core curriculum science requirement.

Representative First Job Titles: ESL teacher, computer scientist, industrial psychologist, archival worker, market research analyst, legal consultant.

Management

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

Dr. Arlyn Melcher
Chairperson
Telephone 618 453-3307
214 Henry J. Rehn Hall

Management is the process of setting overall direction and objectives for an organization and determining policies for the efficient acquisition and application of human and physical resources. Successful managers exert leadership to achieve unity, consistency, and continuous improvement in performance, support efficiency and innovation, and develop and motivate personnel.

The bachelor of science degree program in management meets the objectives of students interested in professional positions as members of industry or government management teams. Building on fundamental knowledge developed in core courses and a restricted set of electives, students can select from a variety of other courses to gain in-depth knowledge about their own areas of interest.

The curriculum prepares students by emphasizing the knowledge, tools, and techniques used by professional managers. The courses impart technological and human resources management skills, preparing students for success in managing modern organizations. Students may choose from four specializations: *management*, which prepares students to make and implement decisions through which people and organizations can work toward a goal; *entrepreneurship*, which prepares students for the risks and rewards of independent ventures; *management information systems*, which prepares students to manage information by effectively applying modern information technology; and *operations management*, through which students learn how to produce goods and services that meet total quality standards in today's global just-in-time environment.

NOTE: The following is a *suggested* curriculum. For specific information consult the *1996-97 Undergraduate Catalog*.

First Year		Fall	Spring
Select	Science[1]	3	3
Select	Fine Arts[1]	3	–
*PSYC 102	Introduction to Psychology	–	3
Select	Humanities[1]	3	3
ENGL 101,102	Composition I *and* Composition II[1]	3	3
*MATH 139	Finite Mathematics[2]	3	–
*MATH 140	Short Course in Calculus	–	4
		15	16

Second Year		Fall	Spring
Select	Integrative Studies[1]	–	3
*SPCM 101	Introduction to Oral Communication	3	–
*ACCT 220	Financial Accounting	3	–
*ACCT 230	Managerial Accounting		3
*ACCT/ MGMT 208	Business Data Analysis	3	–
CS 212/ CIP 229	Introduction to Business Computing *or* Computing for Business Administration[3]	–	3
*ECON 240,241	Introduction to Macro- *and* Microeconomics[4]	3	3
*FIN 270	Legal and Social Environment of Business[3]	3	–
*MGMT 202	Business Communications	–	3
		15	15

* Required course for a major in COBA.
1 See "University Core Curriculum," p. 39.
2 Fulfills a university core curriculum mathematics requirement.
3 Course will be approved by articulation agreement with each college.
4 Fulfills a university core curriculum social science requirement.

Third and Fourth Years

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. Declared management majors will take upper-level business courses that include the remaining core requirements and 21 semester hours in the management area.

Management as a Major

The department is accredited by the American Assembly of Collegiate Schools of Business (AACSB). See p. 45 for the retention policy and the 40-percent rule. The Society for the Advancement of Management, in cooperation with the Department of Management, annually sponsors a career day to acquaint students with opportunities in business and government.

Minor not required. Foreign language not required.

Graduate degrees available: M.B.A., Masters in Accountancy (M.Acc.), D.B.A.

Representative First Job Titles: management trainee, supervisor, personnel specialist, human resource coordinator, inventory control specialist, production scheduler, assistant plant manager.

Marketing

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

Dr. Zarrel Lambert
Acting Chairperson
Telephone 618 453-4341
229 Henry J. Rehn Hall

Marketing is the process of planning and executing the conception, pricing, promotion, distribution of ideas, goods, and services to create exchanges that satisfy individual and organizational objectives.

The bachelor of science degree program in marketing meets the needs of students planning careers in one of the lively areas of marketing. The program conveys an understanding of the role of marketing in an economic system and in a business organization. Emphasis is on cultivating an analytical approach to the creative solution of marketing problems. Courses have been designed into a variety of sequences aimed at meeting the specific needs and interests of students. The sequences are: general marketing administration, international marketing, industrial marketing, sales administration, promotional administration, physical distribution administration, and retail administration.

NOTE: The following is a *suggested* curriculum. For specific information consult the *1996-97 Undergraduate Catalog.*

First Year		Fall	Spring
Select	Science[1]	3	3
Select	Fine Arts[1]	3	–
*PSYC 102	Introduction to Psychology	–	3
Select	Humanities[1]	3	3
ENGL 101,102	Composition I *and* Composition II[1]	3	3
*MATH 139	Finite Mathematics[2]	3	–
*MATH 140	Short Course in Calculus	–	4
		15	16

Second Year		Fall	Spring
Select	Integrative Studies[1]	–	3
SPCM 101	Introduction to Oral Communication[1]	3	–
*ACCT 220	Financial Accounting	3	–
*ACCT 230	Managerial Accounting	–	3
*ACCT/MGMT 208	Business Data Analysis	3	–
*CS 212/ CIP 229	Introduction to Business Computing *or* Computing for Business Administration[3]	–	3
*ECON 240,241	Introduction to Macro- *and* Microeconomics[4]	3	3
*FIN 270	Legal and Social Environment of Business[3]	3	–
*MGMT 202	Business Communications	–	3
		15	15

* Required course for a major in COBA.
1 See "University core curriculum.," p. 39.
2 Fulfills a university core curriculum mathematics requirement.
3 Course will be approved by articulation agreement with each college.
4 Fulfills a university core curriculum social science requirement.

Third and Fourth Years

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. Declared marketing majors will take upper-level business courses that include the remaining core requirements and 24 semester hours in the marketing area.

Marketing as a Major

A grade of *C* or better is required for all marketing majors, in all marketing courses taken, to satisfy major requirements. Emphasis is on gearing programs to individual students' interests and background, with a limited number of required courses leaving room for flexibility.

Minor not required. Foreign language not required.

Graduate degrees available: M.B.A., Masters in Accountancy (M.Acc.), D.B.A. The department is accredited by the American Assembly of Collegiate Schools of Business (A.A.C.S.B.).

See p. 45 for the retention policy and the 40-percent 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[1]

College of Education
(Bachelor of Science)

Jacquelyn Bailey
Chief Academic Adviser
Telephone 618 453-2354
135 Wham Building

With interest growing in improving mathematical performance in the public schools, this is an exciting and promising time to become a mathematics teacher. Undergraduates who choose to major in mathematics in the College of Education can expect to find several job offers waiting when they graduate. Shortages of high school mathematics teachers exist in many parts of the country, and salaries have improved substantially. By selecting appropriate electives, mathematics majors in the College of Education may also prepare themselves for positions in industry or business.

The bachelor of science degree program in mathematics through the College of Education meets the objectives of students considering careers in teaching.

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.

Students planning to teach in secondary schools should consult the teacher education program admission requirements on p. 14.

NOTE: The following is a *suggested* curriculum. For specific information consult the *1996-97 Undergraduate Catalog.*

First Year		Fall	Spring
Select	Science[2]	3	3
POLS 114	Introduction to American Government and Politics	3	–
Select	Fine Arts[3]	3	–
ENGL 101,102	Composition I *and* Composition II	3	3
HED 101/PE 101	Foundations of Human Health *or* Current Concepts of Physical Fitness	–	2
MATH 111	Pre-Calculus	5	–
MATH 150	Calculus I	–	4
CS 202	Introduction to Computer Programming	–	3
		17	15

Second Year		Fall	Spring
Select	Integrative Studies[2]	3	–
PSYC 102	Introduction to Psychology	3	–
HIST 110	Twentieth Century America	–	3
ENGL 121/204	The Western Literary Tradition *or* Literary Perspectives on the Modern World	–	3
Select	approved course in non-Western or Third World cultures	3	–
SPCM 101	Introduction to Oral Communication	–	3
MATH 221	Introduction to Linear Algebra	–	3
MATH 250	Calculus II	4	–
MATH 251/305	Calculus III *or* Differential Equations	–	3
		15	15

[1] See "College of Liberal Arts," p. 48, and the "College of Science," p. 49.

[2] See "University Core Curriculum," p. 39.

[3] Choose from AD 101, MUS 103, HIST 201, and THEA 101.

University core curriculum courses required for teacher certification include PSYC 102, Introduction to Psychology; POLS 114, Introduction to American Government and Politics; HIST 110, Twentieth Century America; ENGL 101 and 102, Composition I and II; SPCM 101, Introduction to Oral Communication; HED 101, Foundations of Human Health or PE 101, Current Concepts of Physical Fitness; and one English literature course. At least one three-semester-hour course must be taken in non-Western or Third World cultures.

Mathematics as a Major

The bachelor of science program in the College of Education provides a solid background for a career in teaching high school mathematics while preparing students for graduate study in mathematics or for a career in business or industry. As a student in the College of Education you will complete the professional education sequence, which stresses early classroom observation and culminates in a semester of student teaching. On graduation you will have met the requirements for teacher certification in Illinois.

It is expedient to complete the following courses during the first two years of study: Math 111, 150, 250, 251, 221, Computer Science 202. For specific major requirements, see the *1996-97 Undergraduate Catalog*.

Foreign language is not required for the bachelor of science degree in education.

Mathematics*

College of Liberal Arts
(Bachelor of Arts)

Dr. Ron Kirk, Chairperson
Telephone 618 453-5302
360 Neckers Building

The bachelor of arts degree program in mathematics is appropriate for students who want to combine mathematics with a minor or second major in computer science, or for those whose interests outside of mathematics tend toward the social sciences, business, psychology, law, or the humanities. Mathematics can also be a good major for pre-medical and pre-law students.

Students in this program take a secondary concentration of two or three courses in some field in which mathematics is applied, or a minor in some department in the College of Science or Liberal Arts. The mathematical requirements for the Bachelor of Arts and bachelor of science degrees are the same.

NOTE: The following is a *suggested* curriculum. For specific information consult the *1996-97 Undergraduate Catalog.*

First Year		Fall	Spring
Select	Science[1]	3	–
Select	Social Science[1]	3	3
Select	Humanities[1]	–	3
ENGL 101,102	Composition I *and* Composition II[1]	3	3
Select	Human Health[1]	2	–
CS 202	Introduction to Computer Programming	–	3
MATH 150,250	Calculus I *and* II[2]	4	4
		15	16

Second Year		Fall	Spring
Select	Science[1,3]	3	3
Select	Fine Arts[1]	–	3
Select	Humanities[1]	3	–
SPCM 101	Introduction to Oral Communication	3	–
FL	Foreign Language[4]	4	4
MATH 221	Introduction to Linear Algebra	–	3
MATH 251	Calculus III	3	–
Select	Integrative Studies[1]	–	3
		16	16

* See also the programs (B.S.) under "College of Education," p. 45, and "College of Science," p. 49.

1 See "University Core Curriculum," p. 39.

2 Community college students should complete the calculus sequence at their community college.

3 SIUC College of Liberal Arts requires one science course with lab in addition to the university core curriculum science requirement.

4 SIUC College of Liberal Arts requires one year of a foreign language.

Mathematics as a Major

Mathematics is growing and changing. Exciting new problems appear each year, and the variety of career opportunities is constantly increasing. SIUC combines the variety of course work and highly qualified staff available at a large university with small classes and personal attention not available at many large universities. Calculus classes here are taught by experienced professors and average about 30 to 35 students in size. Most upper-division courses have 15 to 20 students.

Students will plan their advanced-level course programs together with their mathematics faculty advisers. One course from each of four areas will introduce the main branches of mathematics. Selection of at least five additional courses will depend on students' particular interests, which may be in mathematical research, or teaching, or in business applications, science and technology, statistics, actuarial science, or computer science.

For many mathematics students, we recommend a minor in computer science or even a double major in mathematics and computer science.

A full range of graduate programs is available in mathematics and related fields.

Representative First Job Titles: systems analyst, actuarial trainee, mathematician, operations research analyst, statistician, computing analyst, research mathematician, mathematical programmer, technical sales representative.

Mathematics[1]

College of Science
(Bachelor of Science)

Dr. Ron Kirk, Chair
Dr. Mary Wright
Undergraduate Program Director
Telephone 618 453-5302
360 Neckers Building

The bachelor of science degree program in mathematics in the College of Science meets the objectives of students considering careers as actuaries, computer systems analysts, mathematicians, operations research analysts, and statisticians. It is also a good preparation for law or medicine.

Freshmen with four years of high school mathematics including trigonometry should start with the calculus sequence. Students lacking any part of this background should plan to start with college algebra, trigonometry, or pre-calculus. It is expedient to complete the calculus sequence, linear algebra, and a course in computer programming by the end of the sophomore year.

NOTE: The following is a *suggested* curriculum. For specific information consult the *1996-97 Undergraduate Catalog.*

First Year		Fall	Spring
Select	Social Science[2]	3	–
Select	Humanities[2]	–	3
ENGL 101,102	Composition I *and* Composition II	3	3
Select	Human Health[2]	–	–
Select	Biological Sciences[3]	3	3
CS 202	Computer Programming	–	3
MATH 150,250	Calculus I *and* II	4	4
		15	16

Second Year		Fall	Spring
Select	Social Science[2]	–	3
Select	Humanities[2]	3	–
SPCM 101	Introduction to Oral Communication	3	–
Select	Fine Arts[2]	–	3
Select	Physical Sciences[3]	3	3
Select	Foreign Language[4]	4	4
MATH 221	Linear Algebra	–	3
MATH 251	Calculus III	3	–
		16	16

[1] See also the programs (B.A. and B.S.) under "College of Liberal Arts," p. 48, and "College of Education," p. 45.

[2] See "University Core Curriculum," p. 39.

[3] The College of Science requires 6 semester hours in non-university core curriculum biological sciences and 6 semester hours in non-university core curriculum physical sciences. These courses also fulfill the science component of the university core curriculum (see approved substitution list).

[4] The College of Science requires one year (8 semester hours) of foreign language: French, German, or Russian is recommended. Mathematics as a Major

Mathematics is growing and changing. SIUC offers students the variety of course work and highly qualified staff available at a large university with small classes and personal attention not available at many large universities. Calculus classes here are taught by experienced professors and average about 30 to 35 students. Most upper division courses have 15 to 20 students.

Students and their faculty advisers will plan the student's advanced-level course program together. One course from each of four core areas will introduce students to the main branches of mathematics. Selection of at least five additional courses will depend on the student's particular interests, which may be mathematical research, teaching, applications in business or science and technology, statistics, actuarial science, or computer science.

For many mathematics students, a minor in computer science or a double major in mathematics and computer science is a good choice. Specially tailored programs are available for students planning a double major in engineering, physics, or chemistry and mathematics.

A full range of graduate programs is available in mathematics and related fields.

Representative First Job Titles: systems analyst, actuarial trainee, cryptographer, mathematician, operations research analyst, statistician, computing analyst, technical sales representative, marketing analyst.

Mechanical Engineering

College of Engineering
(Bachelor of Science)

Dr. Albert Kent
Telephone 618 536-2396
B20 Engineering Building

See also: Civil Engineering, Electrical Engineering, and Mining Engineering.

Mechanical Engineering is a broad-based engineering discipline, using mathematics, basic science, economics, and design principles to produce products and systems for the benefit of mankind.

The bachelor of science degree program in mechanical engineering meets the objectives of students interested in product development, design, and application, consulting engineering, and sales. The 133-hour undergraduate program provides a balance of experience in thermal and mechanical systems and the opportunity for specialized design courses.

NOTE: The following is a *suggested* curriculum. For specific information consult the *1996-97 Undergraduate Catalog*.

First Year		Fall	Spring
Select	Social Science[1,2]	–	3
Select	Humanities[1,2]	3	–
ENGL 101,102	Composition *and* Composition II[1,2]	3	3
Select	Human Health[1]	–	2
CHEM 200,201	Introduction to Chemical Principles[3] *and* Lab	4	–
CHEM 210	General and Inorganic Chemistry	–	3
ENGR 102	Engineering Graphics	–	2
MATH 150,250	Calculus I[3] *and* II	4	4
ME 110	Introduction to Engineering Design and Reporting	3	–
		17	17

Second Year		Fall	Spring
Select	Humanities[1,2]	–	3
Select	Social Science[2]	3	–
SPCM 101	Introduction to Oral Communication[1,2]	3	–
ENGR 260a,b	Mechanics of Rigid Bodies (Statics *and*-Dynamics)	2	3
ENGR 311	Mechanics of Deformable Bodies	–	3
MATH 251, 305	Calculus III *and* Differential Equations I	3	3
PHYS 205a,b	University Physics[3]	3	3
PHYS 255a,b	University Physics Lab	1	1
		15	16

[1] See "University Core Curriculum," p. 39. Transfer students without baccalaureate-oriented associate degrees will be required to take some specific university core curriculum courses. Such students should contact the College of Engineering advisement office for information on approved university core curriculum courses.

[2] Accreditation standards require students transferring with a baccalaureate-oriented associate degree to have 16 semester hours of social sciences, fine arts, and humanities; 6 or 7 semester hours of oral and written communications, and 32 semester hours of mathematics and basic sciences before graduation from SIUC. A 300-level social sciences, fine arts, 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, fine arts, and humanities from a community college will be counted toward this 16-hour requirement.

[3] Substitutes for university core curriculum.

Mechanical Engineering as a Major

Transfer students from community colleges or other institutions should have strong backgrounds in the physical sciences, mathematics, social sciences, fine arts, and humanities. Students are encouraged to complete specific freshman and sophomore course requirements, which include 6 semester hours of composition; 3 hours of speech, 8 hours of university physics, 7 hours of chemistry; 11–14 hours of mathematics, including calculus; 2 hours of analytical mechanics (statics); and 2 hours of graphics. 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, patent engineer, sales engineer, quality assurance specialist.

Microbiology

College of Science
(Bachelor of Arts)

Dr. John Martinko
Departmental Chair
Telephone 618 536-2349
131 Life Science II

Microbiology is the study of microorganisms, including bacteria, viruses, protozoa, fungi, and yeasts; examining their morphology, classification, growth, reproduction, genetics, biochemistry, ecology, and relationship to other living organisms, including man.

The bachelor of arts degree program in microbiology meets the objectives of students considering careers with pharmaceutical, food and beverage, or biotechnology industries, or with other health-related organizations. It is also good preparation for graduate study leading to advanced degrees or for laboratory or teaching positions after the bachelor's degree. A microbiology major is also well prepared to enter a medical school curriculum.

Opportunities for specialized training in microbial physiology, diversity, immunology, genetics, biochemistry, and industrial processes are available.

NOTE: The following is a *suggested* curriculum. For specific information consult the *1996-97 Undergraduate Catalog.*

First Year		Fall	Spring
PLB 115	Biology	–	3
ENGL 101,102	Composition I *and* Composition II	3	3
Select	Human Health[1]	2	–
FL	Foreign Language[2]	4	4
CHEM 200,201	Introduction to Chemical Principles[3] and Lab	4	–
CHEM 210,211	General and Inorganic Chemistry	–	4
MATH 108,109/ 111/141	College Algebra *and* Trigonometry and Analytic Geometry *or* Pre-Calculus *or* Short Course in Calculus for Biological Sciences	3	3
		16	17

Second Year		Fall	Spring
Select	Fine Arts[1]	3	–
Select	Biology[5]	–	3
BIOL 305	Genetics—Classical and Molecular	–	3
CHEM 340, 341,342	Organic Chemistry *and* Lab	5	3
MICR 301	Principles of Microbiology	4	–
MICR 302	Molecular Biology	–	3
PHYS 203a,b, 253a,b	College Physics I *and* Lab	4	4
		16	16

1 See "University Core Curriculum," p. 39.
2 Students in the College of Science must take one year of foreign language, one year of mathematics, 6 semester hours of physical sciences, and 6 semester hours of biological sciences.
3 Fulfills a university core curriculum science requirement.
4 The department requires one semester of calculus.
5 Choose from Biology 306, 307, 308, 309.

Third and Fourth Years

During the third and fourth years students fulfill the remaining university core curriculum and choose electives in microbiology to match their professional interests. The Department of Microbiology offers specialty courses in microbial genetics, microbial physiology/biochemistry, biotechnology, medical microbiology, immunology, and bacterial diversity.

Microbiology as a Major

Opportunities for microbiologists with four years of university training are numerous and varied. Careers are available in such fields as 1) pharmaceutical industries involved in 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 that can make vaccines and hormones and alter the genetic constitution of plants and animals.

Teaching and research opportunities exist at the university level for holders of the doctor's degree. A microbiologist planning a teaching career at the secondary-school level should acquire a broad background in general biology. Students planning to teach in secondary schools should consult the teacher education program admission requirements on p. 14.

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: microbiologist, medical microbiologist, laboratory technician, biostatistician, genetics research technician, serologist, histologist, cytologist, parasitologist, virologist, microbiology researcher, wine chemist, fishery bacteriologist, quality control specialist, biological photography staff, manufacturer's representative, public health officer, biology teacher, genetic engineer, water quality engineer.

Mining Engineering

College of Engineering
(Bachelor of Science)

Dr. Yoginder P. Chugh
Telephone 618 536-6637
D31 Engineering Building

See also: Civil Engineering, Electrical Engineering, and Mechanical Engineering.

Mining engineers engage in planning, design, development, and management of surface and underground mining operations by which the earth's mineral deposits are put to use.

The bachelor of science degree program in mining engineering meets the objectives of students considering careers with mining operations and related industries. Course work in the program includes study of 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.

NOTE: The following is a *suggested* curriculum. For specific information consult the *1996-97 Undergraduate Catalog.*

First Year		Fall	Spring
Select	Social Science[1,2]	–	3
Select	Humanities[1,2]	3	3
ENGL 101,102	Composition I *and* Composition II[1,2]	3	3
Select	Human Health[1]	–	2
CHEM 200,201	Introduction to Chemical Principles *and* Lab	4	–
CHEM 210	General and Inorganic Chemistry	–	3
ENGR 102	Engineering Graphics	2	–
MATH 150,250	Calculus I[3] *and* II	4	4
		16	18

Second Year		Fall	Spring
Select	Fine Arts[1,2]	–	3
Select	Social Science[1,2]	–	3
SPCM 101	Introduction to Oral Communication[1,2]	3	–
ENGR 222	Computational Methods for Engineers	2	–
ENGR 260a,b	Mechanics of Rigid Bodies (Statics *and* Dynamics)	2	3
GEOL 220	Physical Geology	3	–
MATH 251,305	Calculus III *and* Differential Equations I	3	3
PHYS 205a,b	University Physics[3] *and* Lab	4	4
		17	16

[1] See "University Core Curriculum," p. 39. Transfer students without a baccalaureate-oriented associate degree will be required to take some specific university core curriculum courses. It is recommended that such students contact College of Engineering Advisement for information on approved university core curriculum courses.

[2] Accreditation standards require that students transferring with baccalaureate-oriented associate degrees will need 16 semester hours of social sciences, fine arts, and humanities, 8 or 9 hours of oral and written communications, and 32 hours of mathematics and basic sciences before graduation from SIUC. A 300-level social science or humanities course, building on a discipline already completed, must be taken at SIUC or at another senior-level institution. In most cases, a maximum of 13 semester hours of social sciences, fine arts, and humanities from a community college will be counted toward this 16-hour requirement.

[3] Substitutes for university core curriculum.

Transfer students from community colleges or other institutions should have strong backgrounds in the physical sciences, mathematics, social sciences, fine arts, and humanities. Students are encouraged to complete specific freshman and sophomore course requirements, which include 6 semester hours of composition; 3 hours of speech, 8 hours of university physics, 7 semester hours of chemistry; 11–14 semester hours of math, including calculus; 2 semester hours of analytical mechanics (statics); and 2 semester hours of graphics. Calculus is a prerequisite for most junior-level courses.

Career and Employment Opportunities

Mining engineers may work in engineering or management positions for mining and exploration and construction companies, equipment manufacturing concerns, research organizations, or government agencies. The course work also provides strong preparation for further study at the graduate level. The average starting salary offered to our graduates compares favorably with national trends.

Mortuary Science and Funeral Service

College of Technical Careers
(Associate in Applied Science)

Cydney Griffith
Program Representatiave
Telephone 618 453-7214
18C Technical Careers Building

The SIUC associate in applied science degree program in mortuary science and funeral service is the only one in Illinois with a university affiliation. Graduates of the program will be prepared to write the national licensing examination and to work in the profession or to pursue a bachelor's degree. 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 predict automatic qualification in another, although many state boards have some reciprocal agreements with other states.

NOTE: The following is a *suggested* curriculum. For specific information consult the *1996-97 Undergraduate Catalog.*

First Year		Fall	Spring
ZOOL 115	General Biology	3	–
PSYC 102	Introduction to Psychology	3	–
ENGL 101,102	Composition I *and* Composition II[1]	3	3
SPCM 101	Introduction to Oral Communication	–	3
MSFS 101	Orientation to Funeral Service	3	–
MSFS 256	Introductory Microbiology	4	–
MSFS 108	Funeral Service Psychology	–	3
OSS 208	Applied Law	–	3
IMS 120	Fiscal Aspects of Technical Careers	–	3
Elective	Health Education	–	2
		16	17

Second Year		Fall	Spring
CHEM 106	Chemistry for Non-Science Majors	3	–
MSFS 225a,b	Embalming Theory and Practice	4	4
MSFS 230	Mortuary Anatomy	4	–
MSFS 250a,b	Mortuary Management	4	4
MSFS 102	Restorative Art	–	4
MSFS 257	Pathology	–	4
		15	16

		Summer
MSFS 375a	Internship—Management	4
MSFS 375b	Internship—Embalming	4
MSFS 380	Funeral Service Seminar	2
		10

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. Transfer students may receive credit for university core curriculum courses (see "University Core Curriculum," p. 39). Many transfer students are able to complete the associate degree in a minimum of twelve months.

Applicants for the mortuary science and funeral service degree program will be admitted to SIUC in the category Pre-Mortuary Science and Funeral Service. Applicants will be given additional program application material.

The degree 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 particular feature of the curriculum is the summer internship, MSFS 375, during which students are assigned to work in a funeral home for ten weeks, on a full-time basis, to gain experience in the practical aspects of the profession. Following the internship, students return to campus for a seminar, MSFS 380, after which they write the National Board examination and graduate.

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 bachelor's degree.

Representative First Job Titles: apprentice funeral director, apprentice embalmer.

Music

College of Liberal Arts
(Bachelor of Arts)

Dr. Robert Weiss, Director
Telephone 618 453-2870
105 Altgeld Hall

Dr. Daniel Mellado, Adviser
Telephone 618 536-5806
113 Altgeld Hall

The bachelor of arts degree program in music in the College of Liberal Arts meets the objectives of students preparing for careers in which music would be combined with other fields of study, such as theater, art, and history, or of students who are preparing for graduate study.

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.

NOTE: The following is a *suggested* curriculum. For specific information consult the *1996-97 Undergraduate Catalog.*

First Year		Fall	Spring
Select	Science[1]	3	3
Select	Social Science[1]	3	–
Select	Humanities[1]	–	3
ENGL 101,102	Composition I *and* Composition II	3	3
Select	Mathematics[2]	3	–
Select	Human Health[1]	–	2
*Select	Major Ensemble *(see below)*	1	1
*MUS 102	Survey of Music Literature	–	2
*MUS 140	Applied Music (principal instrument)	2	2
		15	16

Second Year		Fall	Spring
Select	Science[2]	4	–
Select	Social Science[1]	–	3
Select	Humanities[1]	3	–
SPCM 101	Introduction to Oral Communication	–	3
Select	Foreign Language[3]	4	4
*Select	Major Ensemble *(see below)*	1	1
*MUS 104a,b	Aural Skills	1	1
*MUS 105a,b	Basic Harmony	3	3
*MUS 240	Applied Music (principal instrument)	2	2
		18	17

* Required courses for a major in music.

1 See "University Core Curriculum," p. 39.

2 SIUC College of Liberal Arts requires one science course with lab in addition to the university core curriculum science requirement.

3 Two semesters (generally 8 hours) of a foreign language are required for all liberal arts students.

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 program requires 29-37 semester hours of music courses, 8 hours of foreign language, and 27-34 hours of courses in a program other than music.

Music as a Major

Credits in one's principal applied field are based on private lessons with a member of the faculty, weekly participation in Studio Hour (Tuesdays at 10 a.m.), and recorded attendance each term at seven campus recitals or concerts, in which the student is not a participant, approved by the School of Music faculty.

Music
(Instrumental Performance)
College of Liberal Arts
(Bachelor of Music)

Dr. Robert Weiss, Director
Telephone — 618 453-2870
105 Altgeld Hall

Dr. Daniel Mellado, Adviser
Telephone 618 453-5806
113 Altgeld Hall

The bachelor of music degree program in music with an instrumental performance specialization meets the objectives of students planning careers in musical performance, conducting, teaching, and research. Students planning one of these careers are assumed to have had extensive experience in performing with school groups and/or as soloists and to possess basic music-reading ability. They should also exhibit a strong sensitivity to music and a desire to communicate it to others.

Following is the first two years' course of study for students who intend to pursue careers as instrumentalists and/or private teachers. Those wishing to pursue this specialization should, before the sophomore year, secure approval by the appropriate applied jury, and thereafter enroll for and receive a one-hour lesson each week for four credits per term in applied music.

NOTE: The following is a *suggested* curriculum. For specific information consult the *1996-97 Undergraduate Catalog.*

First Year		Fall	Spring
Select	Science[1]	–	3
Select	Humanities[1]	–	3
ENGL 101,102	Composition I *and* Composition II	3	3
Select	Human Health[1]	2	–
*MUS 140	Applied Music (principal instrument)	2	2
*MUS 030a,b	Piano Class[2]	1	1
*Select	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	17

Second Year		Fall	Spring
Select	Science[1]	–	3
Select	Social Science[1]	3	3
Select	Mathematics[1]	3	–
*MUS 240	Applied Music (principal instrument)	4	4
*MUS 030c,d	Class Piano[2]	1	1
*Select	Major Ensemble *(see below)*	1	1
*MUS 204	Advanced Aural Skills	1	–
*MUS 205	Advanced Harmony	3	–
*MUS 207	Contrapuntal Techniques	–	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 music classes and to avoid spending additional time completing the bachelor's degree.

1 See "University Core Curriculum," p. 39.

2 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 private lessons with a member of the faculty, weekly participation in Studio Hour (Tuesdays at 10 A.M.), and recorded attendance each term at seven campus recitals or concerts, in which the student is not a participant, approved by the School of Music faculty.

All freshmen and sophomores pursuing a bachelor's 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–Choral Union, 021–Chamber Choir, or 022–Concert Choir.

Representative First Job Titles: classical music specialist, symphony orchestra or band artist, music conductor, instrumental soloists, string instruments specialist, brass instruments specialist, woodwinds instruments specialist.

Music
(Jazz Performance)
College of Liberal Arts
(Bachelor of Music)

Dr. Robert Weiss, Director
Telephone 618 453-2870
105 Altgeld Hall

Dr. Daniel Mellado, Adviser
Telephone 618 453-5806
113 Altgeld Hall

The bachelor of music degree program in music with a jazz performance specialization meets the objectives of students planning careers in musical performance, conducting, jazz composition, teaching, research, and related areas in the music industry. Students planning one of these careers are assumed to have had extensive experience in performing with school groups and/or as soloists and to possess basic music-reading ability. They should also exhibit a strong sensitivity to music and a desire to communicate it to others.

Following is the first two years' course of study for students intending to pursue a career as instrumentalists, conductors, and/or private teachers. Those wishing to pursue this specialization should, before the sophomore year, secure approval by the appropriate applied jury, and thereafter enroll for and receive a one-hour lesson each week for four credits per term in applied music.

NOTE: The following is a *suggested* curriculum. For specific information consult the *1996-97 Undergraduate Catalog.*

First Year		Fall	Spring
Select	Science[1]	–	3
Select	Humanities[1]	–	3
ENGL 101,102	Composition I *and* Composition II	3	3
*MUS 140	Applied Music (principal instrument)	2	2
*MUS 030	Piano Class[2]	1	1
*Select	Major Ensemble	1	1
*MUS 102	Survey of Music Literature	2	–
*MUS 104a	Aural Skills	1	1
*MUS 105a	Basic Harmony	3	3
		13	17

Second Year		Fall	Spring
Select	Science[1]	–	3
Select	Social Science[1]	–	3
Select	Mathematics[1]	3	–
Select	Human Health[1]	2	–
*MUS 240	Applied Music (principal instrumental)	4	4
*MUS 030c	Piano Class[1]	1	–
*MUS 030d	Piano Class (Jazz section)[2]	–	1
*Select	Major Ensemble	1	1
*MUS 204	Advanced Aural Skills	1	–
*MUS 205	Advanced Harmony	3	–
*MUS 207	Counterpoint	–	2
*MUS 331	Jazz Improvisation	1	1
		16	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.

1 See "University Core Curriculum," p. 39.

2 Students with piano backgrounds may waive part or all of the piano class requirement, as justified by a proficiency examination.

Music as a Major

Credits in one's principal applied field are based on private lessons with a member of the faculty, weekly participation in Studio Hour (Tuesdays at 10 A.M.), and recorded attendance each term at seven campus recitals or concerts, in which the student is not a participant, approved by the School of Music faculty.

All freshmen and sophomores pursuing a bachelor's 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–Choral Union, 021–Chamber Choir, or 022–Concert 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
(Keyboard Performance)
College of Liberal Arts
(Bachelor of Music)

Dr. Robert Weiss, Director
Telephone 618 453-2870
105 Altgeld Hall

Dr. Daniel Mellado, Adviser
Telephone 618 453-5806
113 Altgeld Hall

The bachelor of music degree program in music with a keyboard performance specialization meets the objectives of students planning careers in musical performance, private teaching, and research. Students planning one of these careers are assumed to have had extensive experience in performing with school groups and/or as soloists and to possess basic music-reading ability. They should also exhibit a strong sensitivity to music and a desire to communicate it to others.

Following is the first two years' course of study for students intending to pursue careers as keyboard performers and/or private teachers. Those wishing to pursue this specialization should, before the sophomore year, secure approval by the appropriate applied jury and thereafter enroll for and receive a one-hour lesson each week for four credits per term in applied music.

NOTE: The following is a *suggested* curriculum. For specific information consult the *1996-97 Undergraduate Catalog.*

First Year		Fall	Spring
Select	Science[1]	3	3
Select	Social Science[1]	–	3
ENGL 101,102	Composition I; Composition II	3	3
*Select	Major Ensemble *(see below)*	1	1
*MUS 102	Survey of Music Literature	2	–
*MUS 104a,b	Aural Skills	1	1
*MUS 105a,b	Basic Harmony	3	1
*MUS 140	Applied Music (principal instrument)	2	2
		15	14

Second Year		Fall	Spring
Select	Humanities[1]	3	3
Select	Mathematics[1]	–	3
SPCM 101	Introduction to Oral Communication	3	–
Select	Human Health[1]	–	2
*Select	Major Ensemble (see below)	1	1
*MUS 204	Advanced Aural Skills	1	–
*MUS 205	Advanced Harmony	3	–
*MUS 207	Contrapuntal Techniques	–	2
*MUS 240	Applied Music (principal instrument)	4	4
		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.

[1] See "University Core Curriculum," p. 39.

Music as a Major

Credits in one's principal applied field are based on private lessons with a member of the faculty, weekly participation in Studio Hour (Tuesdays at 10 A.M.), and recorded attendance each term at seven campus recitals or concerts, in which the student is not a participant, approved for the purpose by the School of Music faculty.

All freshmen and sophomores pursuing a bachelor's 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–Choral Union, 021–Chamber Choir, or 022–Concert Choir.

Representative First Job Titles: classical music specialist, solo performer, church organist, private teacher.

Music
(Music Business)
College of Liberal Arts
(Bachelor of Arts)

Dr. Robert Weiss, Director
Telephone 618 453-2870
105 Altgeld Hall

Dr. Daniel Mellado, Adviser
Telephone 618 453-5806
113 Altgeld Hall

The bachelor of arts degree program with a music business specialization meets the objectives of students planning careers as recording engineers or technicians, commercial arrangers or composers, arts managers, promoters, or salespeople in the music business or the entertainment industry,

Students take 32-35 semester hours of courses in music and 27 hours in accounting, economics, finance, and marketing.

NOTE: The following is a *suggested* curriculum. For specific information consult the *1996-97 Undergraduate Catalog.*

First Year		Fall	Spring
Select	Science[1]	3	–
ENGL 101,102	Composition I *and* Composition II	3	3
Select	Mathematics[1]	–	3
Select	Human Health[1]	2	–
MUS 174	Commercial Music	–	3
Select	Major Ensemble[2]	1	1
MUS 040–240	Applied Music (principal instrument)[2]	1	1
MUS 102	Survey of Music Literature[2]	2	–
MUS 104 a,b	Aural Skills[2]	1	1
MUS 105 a,b	Basic Harmony[2]	3	3
		16	15

Second Year		Fall	Spring
Select	Science[1]	3	–
Select	Social Science[1]	–	3
Select	Humanities[1]	3	3
SPCM 101	Introduction to Oral Communication	–	3
ACCT 220, 230	Principles of Accounting I, II[2]	3	3
MUS 030	Piano Class[2]	1	1
MUS 031	Voice Class[2]	1	–
MUS 032, 033, 034, 035	String, Woodwind, Bass, *and* Percussion Techniques[2]	2	2
MUS 040–240	Applied Music (principal instrument)	1	1
Select	Major Ensemble[2]	1	1
		15	17

[1] See "University Core Curriculum," p. 39.

[2] 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 a student's principal applied field are based on private lessons with a member of the faculty, weekly participation in Studio Hour (Tuesdays at 10 A.M.), and 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.

Representative First Job Titles: music marketing specialist, audio-marketing, management trainee for recording studio, fund raiser for opera company, instrument sales, management agency specialist.

Music[1]
(Music Theory-Composition)
College of Liberal Arts
(Bachelor of Music)

Dr. Robert Weiss, Director
Telephone 618 453-2870
105 Altgeld Hall

Dr. Daniel Mellado, Adviser
Telephone 618 453-5806
113 Altgeld Hall

The bachelor of music degree program with a music theory–composition specialization meets the objectives of students planning careers in music composition, music theory, teaching, and research. Students planning one of these careers are assumed to have had extensive experience in performing with school groups and/or as soloists and to possess basic music-reading ability. They should also exhibit a strong sensitivity to music and a desire to communicate it to others.

Following is the first two years' course of study for students intending to pursue careers as musical composers and/or college teachers of music theory-composition.

NOTE: The following is a *suggested* curriculum. For specific information consult the *1996-97 Undergraduate Catalog.*

First Year		Fall	Spring
Select	Science[2]	–	3
Select	Humanities[2]	–	3
ENGL 101,102	Composition I *and* Composition II	3	3
Select	Human Health[2]	2	–
*Select	Major Ensemble (see below)	1	1
*MUS 030a,b	Class Piano[3]	1	1
*MUS 102	Survey of Music Literature	2	–
*MUS 104a,b	Aural Skills	1	1
*MUS 105a,b	Basic Harmony	3	3
*MUS 140	Applied Music (principal instrument)	2	2
		15	17

Second Year		Fall	Spring
Select	Science[2,4]	3	3
Select	Humanities[2]	–	3
Select	Mathematics[2]	3	–
Select	Social Science[2]	–	3
*MUS 030c,d	Class Piano[3]	1	1
*MUS 204	Advanced Aural Skills	1	–
*MUS 205	Advanced Harmony	3	–
*MUS 207	Contrapuntal Techniques	–	2
*MUS 240	Applied Music (principal instrument)	2	2
*MUS 280	Beginning Composition	2	2
		15	16

* Required courses for a major in music. Students who intend to transfer with an associate's degree from a community college should contact the director of the School of Music well in advance to determine comparability of classes and to avoid spending additional time completing the bachelor's degree.

1 Music education is also available in the College of Education.

2 See "University Core Curriculum," p. 39.

3 Students with piano background may waive part or all of the piano class requirement, as justified by a proficiency examination.

4 SIUC College of Liberal Arts requires one science course with lab in addition to the university core curriculum science requirement.

Music as a Major

Credits in a student's principal applied field are based on private lessons with a member of the faculty, weekly participation in Studio Hour (Tuesdays at 10 A.M.), and 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 bachelor's 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–Choral Union, 021–Chamber Choir, or 022–Concert Choir.

Representative First Job Titles: classical music specialist, theory teacher, composer, arranger, music theory specialist, music composition teacher.

Music
(Piano Pedagogy)
College of Liberal Arts
(Bachelor of Music)

Dr. Robert Weiss, Director
Telephone 618 453-2870
105 Altgeld Hall

Dr. Daniel Mellado, Adviser
Telephone 618 453-5806
113 Altgeld Hall

The bachelor of music degree program in music with a piano pedagogy specialization meets the objectives of students planning careers in university piano teaching and class/private piano teaching. Students planning one of these careers are assumed to have had extensive experience in performing with school groups and/or as soloists and to possess basic music-reading ability. They should also exhibit a strong sensitivity to music and a desire to communicate it to others.

Following is the first two years' course of study for students intending to pursue careers as pianists and/or applied piano teachers. Students planning to pursue this specialization should, before the sophomore year, secure approval by the appropriate applied jury and thereafter enroll for and receive a one-hour lesson each week for 4 credits per term in applied music.

NOTE: The following is a *suggested* curriculum. For specific information consult the *1996-97 Undergraduate Catalog.*

First Year		Fall	Spring
Select	Science[1]	3	–
Select	Social Science[1]	–	3
Select	Humanities[1]	–	3
ENGL 101,102	Composition I and Composition II	3	3
*Select	Major Ensemble	1	1
*MUS 040Q	Applied Piano	2	2
*MUS 102	Survey of Music Literature	2	–
*MUS 104a	Aural Skills	1	1
*MUS 105a	Basic Harmony	3	3
*MUS 110 a,b	Introduction to Piano Pedagogy	2	2
		17	18

Second Year		Fall	Spring
Select	Science[1]	–	3
Select	Mathematics[1]	3	–
SPCM 101	Introduction to Oral Communication	3	–
Select	Human Health[1]	–	2
*Select	Major Ensemble (see below)	1	1
*MUS 040Q	Keyboard Musicianship	–	2
*MUS 210	Analytic Techniques for the Pianist	2	–
*MUS 211	Piano Literature Seminar	–	2
*MUS 204	Advanced Aural Skills	1	–
*MUS 205	Advanced Harmony	3	–
*MUS 207	Counterpoint	–	2
*MUS 240	Applied Music	4	4
		17	16

* Required courses for a major in music. Students who intend to transfer with an associate's degree from a community college should contact the director of the School of Music well in advance to determine comparability of music classes and to avoid spending additional time completing the bachelor's degree.

[1] See "University Core Curriculum," p. 39.

Music as a Major

Credits in one's principal applied field are based on private lessons with a member of the faculty, weekly participation in Studio Hour (Tuesdays at 10 A.M.), and recorded attendance each term at seven campus recitals or concerts, in which the student is not a participant, approved by the School of Music faculty.

All freshmen and sophomores pursuing a bachelor's 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–Choral Union, 021–Chamber Choir, or 022–Concert Choir.

Representative First Job Titles: private applied piano instructor, classroom piano teacher, piano accompanist, and composer/arranger.

Music
(Vocal Performance)
College of Liberal Arts
(Bachelor of Music)

Dr. Robert Weiss, Director
Telephone 618 453-2870
105 Altgeld Hall

Dr. Daniel Mellado, Adviser
Telephone 618 453-5806
113 Altgeld Hall

The bachelor of music degree program in music with a vocal performance specialization meets the objectives of students planning careers in musical performance, conducting, teaching, and research. Students planning one of these careers are assumed to have had extensive pre-university experience in performing with school groups and/or as soloists, basic music reading ability, strong sensitivity to music, and a desire to communicate it to others.

Following is the first two years' course of study for students intending to pursue careers as singers and/or private teachers. Students planning to pursue this specialization should, before the sophomore year, secure approval by the appropriate applied jury, and thereafter enroll for and receive a one-hour lesson each week for four credits per term in applied music.

First Year		Fall	Spring
ENGL 101,102	Composition I *and* Composition II	3	3
Select	Mathematics[1]	–	3
Select	Human Health[1]	2	–
*Select	Major Ensemble (see below)	1	1
*MUS 030a,b	Piano Class[2]	1	1
*MUS 102	Survey of Music Literature	2	–
*MUS 104a,b	Aural Skills	1	1
*MUS 105a,b	Basic Harmony	3	3
*MUS 140P	Applied Music (voice)	2	2
		15	14

Second Year		Fall	Spring
Select	Science[1]	–	3
Select	Humanities[1]	3	–
*Foreign language	French *or* German	4	4
*Select	Major Ensemble (see below)	1	1
*MUS 030c,d	Piano Class[2]	1	1
*MUS 204	Advanced Aural Skills	1	–
*MUS 205	Advanced Harmony	3	–
*MUS 207	Contrapuntal Techniques	–	2
*MUS 240P	Applied Music (voice)	4	4
		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.

1 See "University Core Curriculum," p. 39.

2 Students with piano backgrounds may waive part or all of the piano class requirement, as justified by a proficiency examination.

Music as a Major

Credits in one's principal applied field are based on private lessons with a member of the faculty, weekly participation in Studio Hour (Tuesdays at 10 A.M.), and recorded attendance each term at seven campus recitals or concerts, in which the student is not a participant, approved by the School of Music faculty.

All freshmen and sophomores pursuing a bachelor's 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–Choral Union, 021–Chamber Choir, or 022–Concert Choir.

Representative First Job Titles: classical music specialist, music conductor, vocal soloist, opera specialist, music specialist, choral group artist, assistant to music specialist, church choirmaster.

Music Education

(Music Education - Instrumental or Choral)
College of Liberal Arts
(Bachelor of Music)

College of Education
(Bachelor of Science)

Dr. Daniel Mellado, Adviser
School of Music
Telephone 618 453-5806
113 Altgeld Hall

Jacquelyn Bailey
Chief Academic Adviser
Telephone 618 453-2354
135 Wham Education Building

The School of Music bachelor's degree program in music education prepares students to teach instrumental or choral music in the public schools. Certification to teach grades K-12 is awarded on the completion of all requirements. Students planning one of these careers are assumed to have had extensive experience in performing with school groups and/or as soloists and to possess basic music-reading ability. They should also exhibit a strong sensitivity to music and a desire to communicate it to others.

First Year		Fall	Spring
Select	Science[1]	3	–
PSYC 102	Introduction to Psychology	–	3
ENGL 101,102	Composition I *and* Composition II	3	3
HED 101	Foundations of Human Health	2	–
*MUS 030a,b	Piano Class[2]	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
*Select	Major Ensemble (see below)	1	1
		16	16

Second Year		Fall	Spring
POLS 114	Introduction to American Government and Politics	3	–
HIST 110	Twentieth Century America	3	–
ENGL 121/204	The Western Literary Tradition *or* Literary Perspective on the Modern World	–	3
Select	Mathematics[1]	–	3
SPCM 101	Introduction to Oral Communication	–	3
Select	Science[1]	3	–
*MUS 034, *or*	Brass Techniques Class (for instrumental music)		
MUS 035, *or*	Percussion Techniques Class	1	2
MUS 030a,b	Piano Class (for choral Music Education)[2]	(1)	(1)
*MUS 207	Counterpoint	–	2
*MUS 240	Applied Music (principal instrument)	2	2
*Select	Major Ensemble (see below)	1	1
		13/14	16/17

* 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 the comparability of music classes and to avoid spending additional time completing the bachelor's degree.

1 See "University Core Curriculum," p. 39.

2 Students with piano background may waive part or all of the piano class requirement, as justified by a proficiency examination.

3 Music education curricula are available in both the College of Liberal Arts and the College of Education. Students interested in this program should become aware of the requirements for entering the teacher education program (see p. 14).

University core curriculum courses required for teacher certification include PSYC 102, Introduction to Psychology; POLS 114, Introduction to American Government and Politics; HIST 110, Twentieth Century America; ENGL 101 and 102, Composition I and II; SPCM 101, Introduction to Oral Communication; HED 101, Foundations of Human Health or PE 101, Current Concepts of Physical Fitness; one approved English literature course; and one physical and one biological science course, one of which must include a laboratory. At least one three-semester-hour course must be taken in non-Western or Third World cultures.

Music as a Major

The professional education sequence is carried out in cooperation with the College of Education, and includes courses in psychology, evaluation, and classroom management. The sequence culminates in a full semester of student teaching. Students will also study vocal or instrumental music, with courses in conducting, arranging, instrumental techniques, and teaching methods, in preparation for teaching music at the elementary, junior high, and high school levels.

All freshmen and sophomores pursuing a bachelor's 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–Choral Union, 021–Chamber Choir, or 022–Concert Choir.

Office Systems and Specialties

College of Technical Careers
(Associate in Applied Science)

Susan S. Rehwaldt
Program Representative
Telephone 618 453-7288
107 Technical Careers Building

The associate in applied science degree program in office systems and specialties meets the objectives of men and women interested in careers as administrative employees with enhanced general, medical, or legal office skills or as court reporters. Recent developments in office systems and related technologies have resulted in many new opportunities for employment.

Advisory committees participate in discussions and make recommendations about content. Course work helps students improve their keyboarding skills, computer literacy, English usage, office procedures, and techniques for producing documents. All students must complete the general requirements and additional courses in their specialization: administrative assistant, legal office assistant, medical office assistant, or court and conference reporting.

Students taking these office or court-reporting courses, or similar courses at community colleges, may be interested in completing a bachelor's degree in advanced technical studies with a concentration in office management or in court reporting. The SIUC bachelor of science degree in advanced technical studies is described on page 67 of this handbook and requires an occupational concentration, the ATS core courses, advanced office systems courses recommended by the Office Systems Research Association, and the university core curriculum. Questions about the bachelor's degree program may be directed to Dr. Eileen Troutt-Ervin at 618 453-7263.

NOTE: The following is a *suggested* curriculum. For specific information consult the *1996-97 Undergraduate Catalog.*

Office Systems and Specialties—General Requirements

General requirements for all office systems and specialties students are as follows:

ENGL 101,102	Composition I *and* Composition II	6
OSS 101	Business Communications	3
OSS 111	Beginning Keyboarding	3
OSS 112	Intermediate Keyboarding	3
OSS 113	Advanced Keyboarding	3
OSS 114	Office Software Applications	3
OSS 208,209	Applied Law for Technical Careers I *and* II	6

Additional requirements in the *administrative assistant* specialization are:

SPCM 101	Introduction to Oral Communication	3
IMS 120	Fiscal Aspects of Technical Careers	3
OSS 107	Filing and Records Systems	2
OSS 109	Calculating Numerical Information	3
OSS 118	Introduction to Machine Transcription	3
OSS 140	Word Processing Concepts	3
OSS 205	Office Supervision and Management	2
OSS 233	Administrative Support Procedures	3
OSS 290	Cooperative Office Experience	4

and courses in either the shorthand or non–shorthand option:

Shorthand Option:

OSS 131	Beginning Shorthand	4
OSS 132	Intermediate Shorthand	4
OSS 232	Administrative Shorthand	3

Non–Shorthand Option:

OSS 240	Word Processing Applications	3
OSS 241	Advanced Office Software Applications	3
IMS 109	Information Processing Concepts	3
Elective	Approved by adviser	3

Additional requirements in the *legal office assistant* specialization are:

SPCM 101	Introduction to Oral Communication	3
IMS 120	Fiscal Aspects of Technical Careers	3
OSS 131	Beginning Shorthand (or Machine Shorthand)	4
OSS 132	Intermediate Shorthand (or Machine Shorthand)	4
OSS 290	Cooperative Office Experience	4

and 20 credit hours from the following:

OSS 107	Filing and Records Systems	2
OSS 109	Calculating Numerical Information	3
OSS 118	Introduction to Machine Transcription	3
OSS 182	Legal Terminology and Documents	3
OSS 220	Legal Document Production	3
OSS 221	Legal Terminology/Dictation and Transcription	3
OSS 223	Legal Administrative Support Procedures	3
OSS 233	Administrative Support Procedures	3

NOTE: Persons completing the legal office assistant specialization often transfer, under the Capstone Option, into the paralegal studies (bachelor's degree) program in the SIUC College of Liberal Arts.

Additional requirements in the *medical office assistant* specialization area are:

SPCM 101	Introduction to Oral Communication	3
IMS 120	Fiscal Aspects of Technical Careers	3
AHC 141	Anatomy and Physiology	4
OSS 107	Filing and Records System	2
OSS 109	Calculating Numerical Information	3
OSS 118	Introduction to Machine Transcription	3
OSS 261/262	Medical Terminology, Dictation, and Transcription I,II	6
OSS 263	Medical Administrative Support Procedures	3
OSS 264	Health Insurance Processing	3
OSS 290	Cooperative Office Experience	4
Elective	Approved by adviser	3

Additional requirements in the *Court and Conference Reporting* specialization area are:

AHC 141	Anatomy and Physiology	4
OSS 180	Introduction to Court Reporting	1
OSS 182	Legal Terminology and Documents	3
OSS 186	Basic Machine Shorthand	4
OSS 187	Advanced Machine Shorthand	4
OSS 188	Court Transcript Preparation	3
OSS 261	Medical Terminology, Dictation and Transcription I	3
OSS 281	Legal Testimony I	3
OSS 282	Literary/Medical	3
OSS 283	Legal Testimony II	3
OSS 284	Literary/Legal I	3
OSS 385	Legal Testimony III	3
OSS 386	Literary/Legal II	3
OSS 388	Court Reporting Procedures	3
OSS 389	Court Practicum	3

NOTE: Students entering court reporting must have good language skills and be able to type 30 words a minute. They are required to purchase a shorthand machine and have the machine available to them the first day of classes and thereafter. The specialization includes training in computer aided transcription, which enables a court reporter to prepare transcripts in a speedy manner. Court and conference reporting requires attendance at the summer session between the two academic years of the normal associate degree program.

Minor in Office Systems and Specialties (for students with a major in Spanish)

This minor is intended for students with a major in Spanish who wish to train as bilingual office assistants.

For those skilled in the office support areas of keyboarding, shorthand, and transcription, the minor requirements are:

OSS 107	Filing and Records Systems	2
OSS 109	Calculating Numerical Information	3
OSS 205	Office Supervision and Management	2
OSS 208	Applied Law for Technical Careers I	3
OSS 232	Administrative Shorthand	3
OSS 233	Administrative Support Procedures	3
OSS 290	Cooperative Office Experience	4
OSS 101	Business Communications	3
OSS Electives	Approved by adviser	6–10

For those unskilled in shorthand, keyboarding, and transcription, the minor requirements include the courses listed above and:

OSS 111	Beginning Keyboarding	3
OSS 112	Intermediate Keyboarding	3
OSS 113	Advanced Keyboarding	3
OSS 114	Office Software Applications	3
OSS 118	Introduction to Machine Transcription	3
OSS 131	Beginning Shorthand	4
OSS 132	Intermediate Shorthand	4

Paralegal Studies for Legal Assistants

College of Liberal Arts
(Bachelor of Science)

Dr. M. Browning Carrott
Director
Telephone 618 453-4391
3280 Faner Hall

The bachelor of science degree program in paralegal studies meets the objectives of students preparing for careers as paraprofessionals in the legal profession and as legal assistants, in private practice, in legal aid offices, or in the law-related operations of business, industry, education, or government. Working under the supervision of lawyers, they have more responsibility than legal secretaries.

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: a core of legal specialty, administration, and communication courses that provide technical competence, and a range of social science and humanities courses that prepare students to solve problems, deal with people, and understand trends in legal practice and the role of law in society.

Students must meet all University requirements as well as appropriate College of Liberal Arts requirements.

NOTE: The following is a *suggested* curriculum. For specific information consult the *1996-97 Undergraduate Catalog.*

First Year		Fall	Spring
Select	Science[1]	3	3
Select	Social Science[1]	3	–
POLS 114	Introduction to American Government and Politics	–	3
Select	Humanities[1]	3	–
ENGL 101,102	Composition I *and* Composition II	3	3
Select	Mathematics[1]	–	3
Select	Foreign Language[2]	4	4
		16	16

Second Year		Fall	Spring
Select	Science[3]	3/4	–
Select	Fine Arts[1]	3	–
Select	Humanities[1]	3	–
SPCM 101	Introduction to Oral Communication	–	3
Select	Human Health[1]	–	2
ACCT	Accounting	3	–
CIP 109/ CS 102	Computer Information Processing *or* Computers in Society	–	3
Select	Integrative Studies[1]	3	3
OSS 220	Legal Documents Production	–	4
		15/16	15

[1] See "University Core Curriculum," p. 39.

[2] Two semesters (usually 8 semester hours) of a foreign language are required for all Liberal Arts students.

[3] SIUC College of Liberal Arts requires one science course with lab in addition to the university core curriculum science requirement.

Representative First Job Titles: legal assistant, paralegal.

Philosophy

College of Liberal Arts
(Bachelor of Arts)

Dr. John Howie
Chairperson
Telephone 618 536-6641
3065 Faner Hall

The bachelor of arts degree program in philosophy provides a framework for students preparing for careers in law, government service, theology, and education, as well as graduate school. Courses in the Department of Philosophy range widely through ethics, aesthetics, logic, metaphysics, and the histories of Western and Oriental philosophies, and also art, education, history, and religion.

NOTE: The following is a *suggested* curriculum. For specific information consult the *1996-97 Undergraduate Catalog.*

First Year		Fall	Spring
Select	Science[1]	3	3
Select	Social Science[1]	3	3
Select	Fine Arts[1]	–	3
PHIL 102/105	Introduction to Philosophy *or* Elementary Logic[2]	–	3
ENGL 101,102	Composition I *and* Composition II	3	3
Select	Mathematics[1]	3	–
Select	Human Health[1]	2	–
		14	15

Second Year		Fall	Spring
Select	Science[3]	3/4	–
Select	Humanities[1,2]	3	–
Select	Integrative Studies[1]	–	3
SPCM 101	Introduction to Oral Communication	3	–
Select	Composition *(above 100 level)*[3]	–	3
Select	Foreign Language[4]	4	4
PHIL 204	Ancient Philosophy[5]	3	–
PHIL 205	Modern Philosophy[5]	–	3
Select	Electives[6]	–	3
		16/17	16

1 See "University Core Curriculum," p. 39.
2 No more than two courses or six hours from the university core curriculum will count toward the major.
3 SIUC College of Liberal Arts requires one science course with lab and one approved writing-intensive course in addition to the university core curriculum requirements
4 Two semesters (usually 8 semester hours) of one foreign language are required for all liberal arts students.
5 Required course for a major in philosophy.
6 Elective hours should be used to explore areas of interest and enhance career opportunities or to satisfy liberal arts requirements (see College of Liberal Arts, p. 56).

Philosophy as a Major

The Department of Philosophy maintains its own advisement system to help students design programs which best suit their 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 and drug addiction researcher, archival worker, museum curator, public information specialist, mediator, civic reform studies specialist, sales trainee, delinquency prevention specialist, group interaction studies specialist, morale studies specialist, public health investigator, motivational researcher, librarian.

Photographic Production Technology

College of Technical Careers
(Associate in Applied Science)

Jerry Courvoisier
Program Representative
Telephone 618 453-2454
Blue Barracks

The associate in applied science degree program in photographic production technology meets the objectives of students preparing for careers in industrial, commercial, and private photography, and photofinishing organizations.

The program is served by an advisory committee of professionals active in the photographic and photo-finishing industry. Through active involvement in professional organizations like Photo Marketing Association International, the techniques and processes included in the instructional program are current and consistent with industrial needs.

Students will be involved in photographic imaging processes and techniques in lecture/laboratory sessions, in tours of industrial and commercial installations, and in actual production experience with University Photographic Services, which is operated by the photographic production technology program.

During the two-year program, students will be involved with all facets of photography and photo finishing. Students should expect to spend approximately $750 for materials. Students are to provide their own fully adjustable cameras. Second-year students complete two semesters of photography and photofinishing production internship experience at University Photographic Services.

First Year		Fall	Spring
CHEM 106	Chemistry and Society	3	–
ENGL 101	Composition I		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
OSS 100	Typewriting	–	2
IMS 125	Technical Mathematics	4	–
		19	15

Second Year		Fall	Spring
SPCM 101	Introduction to Oral Communication	–	3
IMS 109	Information Processing Concepts	3	–
ECON 113	Economics of Contemporary Social Issues	–	3
PPT 215	Photo Processing IV	6	–
PPT 221	Photo Processing V	6	–
PPT 251a	Photo Lab Management (lecture)	–	4
PPT 251b	Photo Lab Management (lab)	–	6
		15	16

Total of 65 semester hours.
Core courses (9–100 + 200 level courses, 44 hours)
Supportive courses (21 hours)
For more information consult the *1996-97 Undergraduate Catalog.*

Photographic Production Technology as a Major

Students will carry out a variety of actual photographic and photofinishing production assignments called for by a large university community, and develop flexibility that will help them find employment. Photography and photofinishing have advanced into high-tech applications of imaging that require well-trained and experienced people. The industry offers promise of professional growth, with a high demand for qualified people to meet the extensive demand for images.

Careers might include producing business and industrial images, operating one-hour lab systems, pursuing technical or retail sales, and doing production in a professional lab. Graduates find employment throughout the photo industry. Excellent, dependable technicians are needed, and students are limited only by talent, motivation, and willingness to locate where positions are available. Salaries are generally in proportion to the technician's resourcefulness and drive.

The associate's degree program can be completed in two academic years at SIUC or in combination with community college or other acceptable educational experiences.

A bachelor's degree program through the College of Technical Careers is also available for those who have completed the associate's degree.

Physical Education

College of Education
(Bachelor of Science)

Jacquelyn Bailey
Chief Academic Adviser
Telephone 618 453-2354
135 Wham Education Building

Dr. Ronald Knowlton, Chair
Telephone 618 536-2431
106 Davies Gymnasium

The bachelor of science degree program in physical education with a concentration in teaching meets the objectives of students considering positions as teachers, coaches, or specialists in public and private elementary or secondary schools, colleges, and universities, as well as other social agencies that promote physical activity programs. Courses have been designed to meet the requirements of state departments of education and other agencies that 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.

NOTE: The following is a *suggested* curriculum. For specific information consult the *1996-97 Undergraduate Catalog.*

		Fall	Spring
ZOOL 115	General Biology	3	–
PSYC 102	Introduction to Psychology	3	–
POLS 114	Introduction to American Government and Politics	–	3
HIST 101	The History of World Civilizations	–	3
ENGL 101,102	Composition I *and* Composition II	3	3
MATH 110/113	Non-Technical Calculus *or* Introduction to Contemporary Mathematics	–	3
HED 101	Foundations of Human Health	2	–
		11	12

Second Year		Fall	Spring
Select	Science[1]	3	3
ENGL 204	Literary Perspective on the Modern World	–	3
SPCM 101	Introduction to Oral Communication	3	–
PHSL 201,220	Physiology and Health and Human Musculo-Skeletal Anatomy	3	3
		9	9

[1] See "University Core Curriculum," p. 39.

University core curriculum courses required for teacher certification include PSYC 102, Introduction to Psychology; POLS 114, Introduction to American Government and Politics; HIST 110, Twentieth Century America; ENGL 101 and 102, Composition I and II; SPCM 101, Introduction to Oral Communication; HED 101, Foundations of Human Health or PE 101, Current Concepts of Physical Fitness; one approved English literature course; and one physical and one biological science course, one of which must include a laboratory. At least one three-semester-hour course must be taken in non-Western or Third World cultures.

Physical Education as a Major

The specialization in teacher education is preparation for a traditional career as a physical educator. In addition to the university core curriculum, students take both physical education courses (in their teaching specialty) and the professional teacher education sequence, which culminates in a semester of student teaching. A recent revision of the curriculum in this specialization makes it possible for students to work toward a second teaching area. It is also possible to seek certification to coach in public school athletic programs. Graduates with the teacher education specialization in physical education meet the certification requirements of the Illinois Office of Education and those of many other states.

Students interested in this program should become familiar with the requirements for entering the teacher education program (see p. 14). A minimum GPA of 2.50 is required

A secondary concentration (the student may select the area) is recommended. Minors are available in aquatics, athletic training, and coaching. See the *Undergraduate Catalog* for specific major requirements.

Physical Education

Athletic Training Specialization
College of Education
(Bachelor of Science)

Jacquelyn Bailey
Chief Academic Adviser
Telephone 618 453-2354
135 Wham Education Building

Dr. Ronald Knowlton, Chair
Physical Education
Telephone 618 536-2431
106 Davies Gymnasium

The bachelor of science degree program in physical education with a specialization in athletic training meets the objectives of students planning to provide exemplary first-aid care for student athletes and to administer rehabilitation, therapeutic treatment, and preventive 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.

NOTE: The following is a *suggested* curriculum. For specific information consult the *1996-97 Undergraduate Catalog*.

First Year		Fall	Spring
PHYS 101	Physics of Modern Communication: Hi-Fi Sound to Laser Beams	3	–
PSYC 102	Introduction to Psychology	–	3
Select	Fine Arts[1]	3	–
ENGL 101,102	Composition I *and* Composition II	3	3
MATH 110/113	Non-Technical Calculus *or* Introduction to Contemporary Mathematics	3	–
CHEM 106	Chemistry and Society	–	3
FN 101	Nutrition: Contemporary Health Issues	3	–
HED 334	First Aid	–	3
		15	14

Second Year		Fall	Spring
ZOOL 118	Principles of Animal Biology	4	–
Select	Social Science[1]	3	–
Select	Humanities[1]	3	3
SPCM 101	Introduction to Oral Communication	3	–
HED 101	Foundations of Human Health	–	2
PHSL 201,208	Physiology and Health *and* Lab	–	4
Select	elective	–	3
		13	12

[1] See "University Core Curriculum," p. 39.

Physical Education Athletic Training Specialization

See the *1996-97 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 Department of Physical Education in Davies Gymnasium. Enrollment is limited.

Physical Education

(Exercise Science and Physical Fitness Specialization)
College of Education
(Bachelor of Science)

Jacquelyn Bailey
Chief Academic Adviser
Telephone 618 453-2354
135 Wham Education Building

Dr. Ronald Knowlton, Chair
Physical Education
Telephone 618 536-2431
106 Davies Gymnasium

The bachelor of science degree program in physical education with an exercise science and physical fitness specialization meets the objectives of students who hope to direct 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.

NOTE: The following is a *suggested* curriculum. For specific information consult the *1996-97 Undergraduate Catalog.*

First Year		Fall	Spring
ZOOL 118	Principles of Animal Biology	4	–
PSYC 102	Introduction to Psychology	–	3
Select	Social Science[1]	3	–
Select	Fine Arts[1]	3	–
ENGL 101,102	Composition I *and* Composition II	3	3
Select	Mathematics[1]	–	3
FN 101	Nutrition: Contemporary Health Issues	2	–
		16	14

Second Year		Fall	Spring
Select	Humanities[1]	3	3
SPCM 101	Introduction to Oral Communication	3	–
Select	Integrative Studies[1]	–	3
PHSL 201/208	Physiology and Health *and* Lab	4	–
ACCT 210/ MGMT 170	Accounting Principles *or* Introduction to Business	–	3
CHEM 140a,b	Chemistry	4	4
		14	13

[1] see "University Core Curriculum," p. 39.

Physical Education - Exercise Science and Physical Fitness Specialization

See the *1996-97 Undergraduate Catalog* for specific requirements.

Physical Therapist Assistant

College of Technical Careers
(Associate in Applied Science)

Alicia Dittmer
Program Representative
Telephone 618 453-2361
Wham Education Building
Room 141

The associate in applied science physical therapist assistant degree program meets the objectives of students hoping to become skilled technicians working under the direction of physical therapists (PT) in hospitals, extended care and nursing home facilities, public school settings, and private practices.

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. 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.

NOTE: The following is a *suggested* curriculum. For specific information consult the *1996-97 Undergraduate Catalog.*

First Year		Fall	Spring
ZOOL 118	Principles of Animal Biology	4	–
PSYC 102	Introduction to Psychology	–	3
ENGL 101	Composition I	3	–
SPCM 101	Introduction to Oral Communication	–	3
AHC 105	Medical Terminology	2	–
PHSL 208/209	Physiology *(recommended)*	–	4
PHSL 220	Human Anatomy	–	3
*PTH 107	Introduction to Physical Therapy	3	–
*PTH 113	Physical Agents I	2	–
*PTH 202	Physical Rehabilitative Techniques	–	2
*PTH 204	Practicum I	–	2
		14	17

Second Year		Fall	Spring
IMS 229 /PHYS 101	Computing for Business Administration *or* Conceptual Insights into Modern Communication	3	–
HED 334	Standard First Aid	3	–
PE 302	Kinesiology of Normal and Pathological Conditions	2	–
PE 320	Physiological Bases of Human Movement	–	3
PE 325/326	Training Room Techniques *or* Emergency Care and Prevention	–	2 (3)
PSYC 301/303/ /304/305	Psychology	–	3
*PTH 203	Pathology	2	–
*PTH 205	Physical Therapy Science	–	2
*PTH 208,209A, 209B	Therapeutic Exercise I, IIA, *and* IIB	3	4
*PTH 213	Physical Agents II	3	–
*PTH 214	Practicum II	–	3
		16	17–18

		Summer
*PTH 321a,b	Clinical Internship	8
*PTH 322	Clinical Seminar	2
		10

*Complete with a minimum grade of *C.*

Physical Therapist Assistant as a Major

Under the supervision of a physical therapist, students will use various physical agents such as heat, cold, light, water, electricity, and sound, and administer massage and therapeutic exercises, as well as teach gait and other activities of daily living. They will assist in more complex procedures, such as administering manual muscle tests, electrical tests, and other evaluative examinations, and also observe, record, and report to the supervisor conditions, reactions, and responses related to their assigned duties. Other duties include general physical therapy record keeping and housekeeping.

Students should expect to spend approximately $150 for uniforms and insurance.

This program is accredited by the American Physical Therapy Association. Available facilities restrict program enrollment. Applicants are admitted to SIUC in the category Pre-Physical Therapist Assistant and are provided the additional application materials required for admission to the program. All completed application materials to the program for fall 1996 will be reviewed after December 22, 1995. Enrollment for the fall 1996 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.

Students are expected to provide documentation of immunization or waiver for HBV. Many hospitals are now requiring HBV before internship experiences.

Before graduation, students will serve an internship of twelve weeks in two separate facilities located away from the campus.

Representative First Job Title: physical therapist assistant.

Physics[1]

College of Science
(Bachelor of Science)

Dr. Maurice A. Wright
Department Chair
Telephone 618 453-2643
483A Neckers Building

A basic knowledge of classical and quantum physics is essential for successful entry into a wide variety of interdisciplinary areas of science such as biophysics, geophysics, communications science, space science, environmental science, medical science, and engineering. The bachelor of science degree program in physics through the College of Science meets the objectives of students undertaking the sound preparation in modern physics necessary for pursuing advanced study in physics and related areas or participating in research and development work in industry or government laboratories.

The program of study provides for a mastery of the basic principles of classical and quantum physics. It also provides a breadth of coverage in the application of physical principles to related fields. Because of the central position of physics among the physical sciences, the physics graduate with adaptable analytical and instrumental skills can contribute to the solution of pressing national problems, from energy to the environment.

NOTE: The following is a *suggested* curriculum. For specific information consult the *1996-97 Undergraduate Catalog.*

First Year		Fall	Spring
Select	Social Science[2]	3	–
Select	Humanities[2]	–	3
ENGL 101	Composition I[2]	3	–
SPCM 101	Introduction to Oral Communication	–	3
Select	Human Health[2]	–	2
*CHEM 200,201	Introduction to Chemical Principles and Lab[3,4,5]	4	–
CHEM 210,211	General and Inorganic Chemistry and Lab	–	4
MATH 111	Pre-Calculus[4]	5	–
*MATH 150	Calculus I[4]	–	4
		15	16

Second Year		Fall	Spring
Select	Biological Science[2,4]	3	3
Select	Foreign Language[4]	4	4
*MATH 250,251	Calculus II *and* III	4	4
*PHYS 205a,b, 255a,b	University Physics *and* Lab[4]	4	4
*PHYS 301	Theoretical Methods in Physics	–	2
		15	17

* Required courses for a major in physics.

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

2 See "University Core Curriculum," p. 39.

3 Fulfills a university core curriculum science requirement.

4 Students in the College of Science must take one year of foreign language, one year of math, 6 semester hours of physical sciences, and 6 semester hours of biological sciences.

5 These courses are for students with a year or more of high school chemistry. Those with less than a year should take CHEM 115 (Introduction to General Chemistry) before CHEM 200, 201.

Physics as a Major

At SIUC, students may elect one of several options to prepare to be physicists. Choices exist for both the experimentally- and theoretically-oriented student. The physics major may prepare to enter graduate school or an industrial and/or government laboratory.

Representative First Job Titles: physicist, acoustician, design physicist, quality control physicist, research physicist, aerodynamics scientist, applied physics researcher, astrophysicist, atomic and molecular physicist, biophysicist, geophysicist, factory insurance representative, thermodynamicist, optics physicist, manufacturer's representative, mechanics physicist, nuclear physicist, plasma physicist, product studies and testing physicist, solid-state physicist, physical metallurgy scientist, biophysicist, astronomer, geodesist, crystallographer, air pollution analyst, theoretical physicist, health physicist, computational physicist.

Physiology

College of Science
(Bachelor of Arts)

Dr. Andrzej Bartke
Department Chair
Telephone 618 453-1544
245 Life Science II

Physiology involves studying how life processes operate and how organisms function during life. The bachelor of arts degree program in physiology meets the objectives of students considering preparation for further education in medical and other health-related professional schools and in graduate programs in physiology, cell biology, and other disciplines.

Courses include physiological techniques, pharmacology, electron microscopy, and anatomy. A bachelor's degree in physiology provides good background for a variety of research positions in academia, industry, and government as well as for working with data analysis, sales, and professional writing. The greatest employment opportunities after graduate work are in colleges and universities. Government agencies are the second largest employers of physiologists.

NOTE: The following is a *suggested* curriculum. For specific information consult the *1996-97 Undergraduate Catalog.*

First Year		Fall	Spring
Select	Social Science[1]	–	3
Select	Humanities[1]	–	3
ENGL 101,102	Composition I *and* Composition II	3	3
Select	Human Health[1,2]	2	–
SPCM 101	Introduction to Oral Communication	3	–
Select	Foreign Language[3]	4	4
MATH 108	College Algebra	3	–
MATH 109	Trigonometry and Analytic Geometry	–	3
		15	16

Second Year		Fall	Spring
Select	Fine Arts[1]	3	–
Select	Humanities[1]	–	3
CHEM 200,201	Introduction to Chemical Principles and Lab[3,4]	4	–
CHEM 210/211	General and Inorganic Chemistry and Lab	–	4
MATH 150,250	Calculus I *and* II	4	4
PHYS 203a,b/ 253a,b	College Physics *and* Lab	4	4
		15	15

1 See "University Core Curriculum," p. 39.
2 PHSL 201, Human Physiology, is recommended for physiology majors.
3 Students in the College of Science must take one year of foreign language, one year of math, 6 semester hours of physical sciences, and 6 semester hours of biological sciences.
4 Fulfills a university core curriculum science requirement.

Third and Fourth Years

Students following this course outline would enter their third year requiring 9 semester hours of social sciences, multicultural studies, and integrative studies to complete their university core curriculum requirements. During the third year students would have the option of taking CHEM 340 and 341, organic chemistry, and 350, biochemistry; or CHEM 340 and 341, 342 and 343, organic chemistry; followed by CHEM 350 or 451, biochemistry, during the fourth year. Third-year students would take PHSL 310, 2 courses from Biology 307, 308, and 309, and begin their physiology electives. PHSL 410 would be taken in the fourth year; this would allow more option for physiology electives. Students are strongly encouraged to do some laboratory research with individual faculty during their third and fourth years.

Physiology as a Major

In addition to adequate equipment for all routine work, our students can use cell and tissue culture facilities, ultracentrifuge, high-performance liquid chromatography, complete facilities for immunoassays, environmental chambers with controlled photoperiod and temperature, activity recorders, and electron microscopes, as well as a shadowcaster, photographic equipment, knifebreaker, and ultramicrotome; isotopic equipment including scalers and monitors; fully equipped animal rooms, autoclave, several varieties of analytic balances, refrigerated centrifuges; constant temperature baths and ovens; walk-in cold rooms, electrophoresis equipment; physiographs; fraction collectors; oscillosocopes; blood gas apparatus, electrocardiograph, strength-testing equipment; and personal computers and computer terminals.

Representative First Job Titles: physiologist, pharmacologist, physiological researcher, genetics researcher, manufacturer's representative, pathologist, technical writer, biostatistician, researcher, toxicologist, pharmaceutical sales representative.

Plant and Soil Science
(Business Specialization)
College of Agriculture
(Bachelor of Science)

Dr. Donald Stucky, Chair
Telephone 618 453-2496
176 Agriculture Building

The Department of Plant and Soil Science includes field crop production, horticulture, and soils in its bachelor of science degree program. The business specialization is oriented toward students planning to enter business and industry. This is the best option for those interested in careers in agriculture chemical sales (herbicides, pesticides, and fertilizers), because it provides a strong technical base along with business courses. Students may individualize their programs through internships and special studies.

First Year		Fall	Spring
AGEM 318	Computers in Agriculture	3	–
Select	Humanities[1]	3	–
ENGL 101,102	Composition I *and* Composition II	3	3
Select	Human Health[1]	2	–
ABE 204	Introduction to Agricultural Economics[2]	–	3
CHEM 140a	Survey of Chemistry *and* Lab	4	–
PLB 200	General Plant Biology *and* Lab	–	4
PLSS 200	Introduction to Crop Science	–	3
Select	elective	–	3
		15	16

Second Year		Fall	Spring
Select	Fine Arts[1]	3	–
PSYC 102	Introduction to Psychology	–	3
Select	Humanities[1]	–	3
MATH 113	Introduction to Contemporary Mathematics	3	–
SPCM 101	Introduction to Oral Communication	–	3
PLSS 220	General Horticulture	3	–
PLSS 240	Soil Science	–	4
ACCT 210	Accounting Principles and Control	–	3
CHEM 140b	Survey of Chemistry *and* Lab	4	–
Select	Integrative Studies[1]	3	–
		16	16

[1] See "University core Curriculum," p. 39.
[2] Fulfills a university core curriculum science requirement.

Third and Fourth Years

The last two years of the program concentrate on specific professional objectives. 32 hours of PLSS courses are required, including 18 hours of structured course work at the 300-400 level, with no fewer than 12 hours at the 400 level. In addition, 6 hours from two other departments in the College of Agriculture (may include the 3-hour AGEM computer course) are required. The specialization requires PLB 320, 7 hours of agriculture electives, and 16 hours of business courses, and permits 8 hours of elective courses.

Plant And Soil Science as a Major

Numerous job opportunities are available for graduates of this specialization. The department maintains close contact with employers and assists students in finding internships and permanent positions.

A minor is not required, and no foreign language is required. An honors program is 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, chemical sales representative, golf course assistant superintendent, turfgrass manager.

Plant and Soil Science

(Environmental Studies Specialization)
College of Agriculture
(Bachelor of Science)

Dr. Donald Stucky, Chair
Telephone 618 453-2496
176 Agriculture Building

The Department of Plant and Soil Science includes in its bachelor of science degree program a specialization in environmental studies. Students may design the specialization in either agronomy or horticulture through the selection of supporting courses. The program prepares students for interesting careers that involve interactions of agriculture concerns and environmental regulations.

NOTE: The following is a *suggested* curriculum. For specific information consult the *1996-97 Undergraduate Catalog.*

First Year		Fall	Spring
Select	Humanities[1]	3	–
AGEM 318	Computers in Agriculture	3	–
ENGL 101,102	Composition I *and* Composition II	3	3
Select	Human Health[1]	2	–
PLB 200	General Plant Biology *and* Lab	–	4
CHEM 200,201	Introduction to Chemical Principles *and* Lab	4	–
ABE 204	Introduction to Agricultural Economics[2]	–	3
PLSS 200	Introduction to Crop Science	–	3
Select	PLSS elective	–	3
		15	16

Second Year		Fall	Spring
Select	Fine Arts[1]	3	–
Select	Humanities[1]	–	3
Select	Multicultural[1]	3	–
SPCM 101	Introduction to Oral Communication	–	3
MATH 108	College Algebra	3	–
MATH 109	Trigonometry and Analytic Geometry	–	3
AGRI 333	Agriculture and Forestry Environmental Problems	–	2
PLSS 220	General Horticulture	3	–
PLSS 240	Soil Science	–	4
CHEM 210,211	General and Inorganic Chemistry *and* Lab	4	–
		16	15

[1] See "University Core Curriculum," p. 39.
[2] Fulfills a university core curriculum social science requirement.

Third and Fourth Years

The last two years of the program concentrate on specific professional objectives. 24 hours of PLSS courses are required. The specialization requires PLB 320 and 356, ZOOL 316, ABE 401, CHEM 340, 341, and 350, MATH 140, and two geography courses.

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 is 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 morphologist, technical service representative, plant physiologist, plant taxonomist, soil bacteriologist.

Plant and Soil Science

(General Specialization)
College of Agriculture
(Bachelor of Science)

Dr. Donald Stucky, Chair
Telephone 618 453-2496
176 Agriculture Building

The bachelor of science degree program in plant and soil science with a general specialization includes programs in field crop production, horticulture, and soils.

The program provides thorough training in theory and practice. Although the general specialization is production oriented, students may choose elective courses from the College of Agriculture and other departments in the University, and may structure individualized programs through internships, special studies, and seminars. A course of study in international agriculture is offered.

NOTE: The following is a *suggested* curriculum. For specific information consult the *1996-97 Undergraduate Catalog.*

First Year		Fall	Spring
AGEM 318	Computers in Agriculture	3	–
Select	Humanities[1]	3	–
ENGL 101,102	Composition I *and* Composition II	3	3
Select	Human Health[1]	2	–
CHEM 140a	Survey of Chemistry *and* Lab	4	–
PLB 200	General Plant Biology *and* Lab	–	4
ABE 204	Agricultural Economics	–	3
PLSS 200	Introduction to Crop Science	–	3
Select	elective	–	3
		15	16

Second Year		Fall	Spring
Select	Fine Arts[1]	3	–
Select	Humanities[1]	–	3
SPCM 101	Introduction to Oral Communication	–	3
MATH 113	Introduction to Contemporary Mathematics	3	–
PLSS 220	General Horticulture	3	–
PLSS 240	Soil Science	–	4
CHEM 140b	Chemistry	4	–
Select	PLSS electives	3	3
Select	Multicultural[1]	–	3
		16	16

[1] See "University Core Curriculum," p. 39.
[2] Fulfills a university core curriculum social science requirement.

Third and Fourth Years

The last two years of the program concentrate on specific professional objectives. 32 hours of PLSS courses are required, including 18 hours of structured course work at the 300–400 level, with no fewer than 12 hours at the 400 level. In addition, 6 hours from two other departments in the College of Agriculture (may include the 3-hour AGEM computer course) are required. The specialization requires PLB 320 and 12 hours of agriculture electives, and permits 19 hours of elective courses.

Plant And Soil Science as a Major

Numerous job opportunities are available for graduates of this specialization. The department maintains close contact with employers and assists students in finding internships and permanent positions.

A minor is not required and there are no foreign language requirements. An honors program is 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, golf course assistant superintendent, turfgrass manager.

Plant and Soil Science
(Landscape Horticulture Specialization)
College of Agriculture
(Bachelor of Science)

Dr. Donald Stucky, Chair
Telephone 618 453-2496
176 Agriculture Building

The Department of Plant and Soil Science includes in its bachelor of science degree program a landscape horticulture specialization. The specialization provides thorough training for students seeking interesting careers in landscaping or gardening in parks, playgrounds, residential or industrial areas, road, street and parkway improvement and maintenance, and in other public and private work to make the environment more pleasing and useful.

NOTE: The following is a *suggested* curriculum. For specific information consult the *1996-97 Undergraduate Catalog.*

First Year		Fall	Spring
AGEM 318	Computers in Agriculture	3	–
Select	Humanities[1]	–	3
ENGL 101,102	Composition I *and* Composition II	3	3
Select	Human Health[1]	2	–
CHEM 140a	Survey of Chemistry *and* Lab	4	–
PLB 200	General Plant Biology *and* Lab	–	4
ABE 204	Introduction to Agricultural Economics[2]	–	3
PLSS 220	General Horticulture	3	–
Select	PLSS elective	–	3
		15	16

Second Year		Fall	Spring
Select	Fine Arts[1]	3	–
Select	Multicultural[1]	3	–
Select	Humanities[1]	–	3
SPCM 101	Introduction to Oral Communication	–	3
MATH 113	Introduction to Contemporary Mathematics	3	–
PLSS 240	Soil Science	–	4
PLSS 200	Introduction to Crop Science	3	–
AGEM 374	Applied Graphics	–	2
CHEM 140b	Chemistry	4	–
Select	PLSS elective	–	3
		16	15

[1] See "University Core Curriculum, " p. 39.
[2] Fulfills a university core curriculum social science requirement.

Third and Fourth Years

The last two years of the program concentrate on specific professional objectives. 39 hours of PLSS courses are required. In addition, 7 hours from other departments in the College of Agriculture (may include the 3-hour AGEM computer course) are required. The specialization requires PLB 320 & 356, ZOOL 316, BIOL 307, and 12 hours of agriculture electives.

Landscape Horticulture as a Major

Numerous job opportunities are available for graduates of this specialization. The department maintains close contact with employers and assists students in finding internships and permanent positions.

A minor is not required and there are no foreign language requirements. An honors program is 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, foreman-park maintenance, public and environmental health scientist, plant ecologist, plant morphologist, technical service representative, plant physiologist, plant taxonomist.

Plant and Soil Science

(Science Specialization)
College of Agriculture
(Bachelor of Science)

Dr. Donald Stucky, Chair
Telephone 618 453-2496
Agriculture Building, Room 176

The Department of Plant and Soil Science includes field crop production, horticulture, and soils in its bachelor of science degree program, which provides thorough training in theory and practice. Although the science specialization is oriented toward students interested in advanced degrees and research, students may choose elective courses from the College of Agriculture and other areas of the University and structure individualized programs through internships, special studies, and seminars. A course of study in international agriculture is offered.

NOTE: The following is a *suggested* curriculum. For specific information consult the *1996-97 Undergraduate Catalog.*

First Year		Fall	Spring
Select	Humanities[1]	3	–
ENGL 101,102	Composition I *and* Composition II	3	3
Select	Human Health[1]	2	–
PLB 200	General Plant Biology and Lab	–	4
CHEM 200,201	Introduction to Chemical Principles *and* Lab	4	–
ABE 204	Agricultural Economics[2]	–	3
PLSS 200	Principles of Field Crop Production	–	3
AGEM 318	Computers in Agriculture	3	–
Select	elective	–	3
		15	16

Second Year		Fall	Spring
Select	Fine Arts[1]	3	–
Select	Humanities[1]	–	3
SPCM 101	Introduction to Oral Communication	–	3
CHEM 210,211	Organic Chemistry I *and* Lab	4	–
Select	Multicultural[1]	3	–
PLSS 220	General Horticulture	3	–
PLSS 240	Soil Science	–	4
MATH 108,109	College Algebra and Trigonometry *and* Analytic Geometry	3	3
Select	elective	–	3
		16	16

[1] See "University Core Curriculum," p. 39.
[2] Fulfills a university core curriculum social science requirement.

Third and Fourth Years

The last two years of the program concentrate on specific professional objectives. 32 hours of PLSS courses are required, including 18 hours of structured course work at the 300–400 level, with no fewer than 12 hours at the 400 level. In addition, 6 hours from two other departments in the College of Agriculture (may include the 3-hour AGEM computer course) are required. In addition, the specialization requires PLB 320, CHEM 340, 341, and 350, MATH 140, and two physics courses.

Plant And Soil Science as a Major

Numerous job opportunities are available to graduates of this specialization. The department maintains close contact with employers and assists students in finding internships and permanent positions.

A minor is not required and there are no foreign language requirements. An honors program is 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 Biology[1]

College of Science
(Bachelor of Science)

Dr. Lawrence Matten, Chair
Dr. Walter Sundberg
Department Adviser
Telephone 618 536-2331
420 Life Science II

Plant biology is the study of all plants and all aspects of plants—that is, biology with a plant emphasis. Because of the diversity of its subdisciplines, plant biology offers opportunities—in basic or applied plant biology, in field or laboratory work, or in descriptive or experimental studies–to all who enjoy natural sciences, and it will play an increasingly significant role in many important issues facing humankind. Efforts to preserve natural communities, to preserve, improve, and effectively use food and other plant-product resources, and to reduce pollution will depend on the work of plant biologists who make new and important discoveries in biotechnology, molecular biology, and related fields.

The bachelor of science degree program in plant biology meets the objectives of students considering careers in plant biology or related fields with federal and state agencies, in industry, or in education, and of those preparing for teacher certification or graduate study. The exact courses to be selected will vary somewhat, depending on the areas of plant science in which students intend to specialize. Consult both the department adviser and the college adviser.

NOTE: The following is a *suggested* curriculum. For specific information consult the *1996-97 Undergraduate Catalog.*

First Year		Fall	Spring
SPCM 101	Introduction to Oral Communication	–	3
ENGL 101,102	Composition I *and* Composition II	3	3
PLB 200	General Plant Biology[1]	4	–
CHEM 210,211, 200,201/ 340,341	Introduction to Chemical Principles *and* Lab *and* General and Inorganic Chemistry *and* Lab[1] *or* Organic Chemistry *and* Lab[2]	4	4 /5
Select	Human Health[2]	2	–
MATH 108	College Algebra	3	–
MATH 109	Trigonometry and Analytic Geometry	–	3
Select	Fine Arts[2]	–	3
		16	16/17

Second Year		Fall	Spring
FL	Foreign Language[3]	4	4
Select	Social Science[2]	3	3
Select	Humanities[2]	3	3
BIOL 306	Cellular Biology	3	–
BIOL 307	Principles of Ecology	3	–
BIOL 305	Genetics	–	3
		16	13

[1] Fulfills a university core curriculum science requirement.

[2] See "University Core Curriculum," p. 39.

[3] Students in the College of Science must satisfy specific mathematics and foreign language requirements and must take 6 semester hours of physical sciences, and 6 semester hours of biological sciences. If foreign language is not taken this year, another course is required in the junior year (see College of Science, p. 49).

Third and Fourth Years

The last two years of the program should include completion of university core curriculum integrative studies requirements, and the following courses in plant biology: Plant Biology 204 and 320 and plant biology electives totaling 16 hours, distributed so as to include at least one course from each of the following groups:

Group A. 356, 400, 404, 405, 406, 414, 415, 421
Group B. 409, 410, 430, 439, 449, 450, 451, 485
Group C. 337, 440, 443, 444, 445, 447, 448
Group D. 360, 425a, 425b, 475, 476

Electives should include courses in computer science, microbiology, physics, statistics, and zoology.

Plant Biology as a Major

As a general rule, students who intend to apply for admission to a graduate school for an advanced degree in plant biology should include the following in their undergraduate programs: inorganic and organic chemistry, mathematics through calculus, a modern European language, physics, and as many plant biology and biology courses as time and scheduling will permit.

An honors program is available to those juniors and seniors in plant biology who have an overall grade point average of 3.00 or better and an average in plant biology courses of 3.25 or better. Honors students should enroll in Plant Biology 492 during some semester of both junior and senior years for a total of no fewer than 3 semester hours.

Representative First Job Titles: agricultural sales, biological product development scientist, botanist, ecologist, economic botanist, environmental consultant, greenhouse manager, horticulture technician, nature interpreter, plant breeding technician, plant ecologist, plant morphologist, pla

nt pathologist, plant physiologist, plant taxonomist, plant protection technician, quality control specialist, technical library operator, museum curator, biotechnologist, industrial bacteriologist, naturalist, conservationist, agricultural commodities inspector, researcher, teacher, cytologist, plant molecular biologist.

Political Science[1]

College of Education
(Bachelor of Science)

Jacquelyn Bailey
Chief Academic Adviser
Telephone 618 453-2354
135 Wham Education Building

The bachelor of science degree program in political science in the College of Education meets the objectives of students considering teaching careers in secondary schools. The Department of Political Science also offers a bachelor of arts degree in the College of Liberal Arts.

The political science major requires a minimum of 33 semester 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. Political science course work must cover five of six sub-fields and meet the College of Liberal Arts Writing-Across-the-Curriculum requirement.

NOTE: The following is a *suggested* curriculum. For specific information consult the *1996-97 Undergraduate Catalog.*

First Year		Fall	Spring
Select	Science[2]	3/4	3
POLS 114	Introduction to American Government and Politics	3	–
PSYC 102	Introduction to Psychology	3	–
ECON 113	Economics of Contemporary Social Issues	–	3
Select	Fine Arts[3]	3	–
ENGL 101,102	Composition I *and* Composition II	3	3
Select	Mathematics[2]	–	3
HED 101/PE 101	Foundations of Human Health *or* Current Concepts of Physical Fitness	–	2
Select	Electives[4]	–	3
		15/16	17[5]

Second Year		Fall	Spring
Select	Interdisciplinary Studies[6]	3	–
POLS 250	Politics of Foreign Nations	3	–
HIST 301	U. S. History	–	3
ENGL 121/204	The Western Literary Tradition *or* Literary Perspectives on the Modern World	–	3
HIST 101A	The History of World Civilizations[7]	–	3
SPCM 101	Introduction to Oral Communication	3	–
Select	Multicultural[8]	3	–
Select	Elective[4]	3	6
		15	15

1 See also the program under "College of Liberal Arts" on the following page.
2 See "University Core Curriculum," p. 39.
3 Choose from AD 101, MUS 103, HIST 201, and THEA 101.
4 Elective hours should be used to explore areas of interest or to select a minor.
5 Immediately after completing 30 hours of college credit (including ENGL 101 and 102) with an overall GPA of 2.5 (4.0 = *A*) or higher, students should apply to the SIUC College of Education teacher education program.
6 Choose from PLB 301I, PLB 303I, or ZOOL 312I.
7 For a list of approved substitutes refer to the SIUC Transfer Credit Articulation Report (any course equivalency to EDUCNONW) or contact SIUC College of Education Advisement Center for course recommendations.
8 Choose from ANTH 202, HIST 202, HIST 210, or SOC 215.

A Major in Political Science

University core curriculum courses required for teacher certification include PSYC 102, Introduction to Psychology; POLS 114, Introduction to American Government and Politics; HIST 110, Twentieth Century America; ENGL 101 and 102, Composition I and II; SPCM 101, Introduction to Oral Communication; HED 101, Foundations of Human Health or PE 101, Current Concepts of Physical Fitness; one approved English literature course; and one physical and one biological science course, one of which must include a laboratory. At least one three-semester-hour course must be taken in non-Western or Third World cultures.

Students who wish to become government teachers at the high school level will also complete the professional education sequence, which culminates in a semester of student teaching. The program is fully approved by the Illinois State Office of Education and by the National Council for Accreditation of Teacher Education (NCATE).

Students interested in this program should be familiar with the requirements for entering the Teacher Education Program (see p. 14).

Political Science

College of Liberal Arts
(Bachelor of Arts)

Uday Desai, Chairperson
Telephone 618 536-2371
3077 Faner Hall

The bachelor of arts degree program in political science in the College of Liberal Arts meets the objectives of students whose career plans lean toward public service, scientific polling and political analysis, business management training programs, diplomacy, foreign affairs, and teaching at the secondary level. It is an excellent foundation for professional training in law, journalism, public administration, or public affairs as well as for graduate work in political science, which is essential for a career in higher education. It is also a natural choice for students who are not planning careers in the field but have an interest in politics and public affairs.

The Department of Political Science offers undergraduate majors in the College of Liberal Arts and the College of Education. The bachelor's degree program in liberal arts requires a minimum of 33 semester hours covering five different sub-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. Political science majors must meet the College of Liberal Arts Writing-Across-the-Curriculum requirements. See the *1996-97 Undergraduate Catalog.*

NOTE: The following is a *suggested* curriculum. For specific information consult the *1996-97 Undergraduate Catalog.*

First Year		Fall	Spring
Select	Science[1]	3	–
Select	Social Science[1]	3	–
POLS 114	Introduction to American Government and Politics	–	3
Select	Humanities[1]	3	3
ENGL 101,102	Composition I *and* Composition II	3	3
Select	Mathematics[1]	–	3
Select	Human Health[1]	2	–
Select	Fine Arts[1]	–	3
		14	15

Second Year		Fall	Spring
Select	Science[1,3]	3	3/4
POLS 250	Politics of Foreign Nations	3	–
SPCM 101	Introduction to Oral Communication	3	–
Select	Integrative Studies[1]	–	3
Select	Foreign Language[4]	4	4
POLS 200	Introduction to the Discipline of Political Science	–	3
Select	Electives[5]	3	3
		16	16/17

1 See "University Core Curriculum," p. 39.
2 See teacher education program under "College of Education," p. 45.
3 SIUC College of Liberal Arts requires one science course with lab in addition to the university core curriculum science requirement.
4 Two semesters (usually 8 semester hours) of a foreign language are required for all liberal arts students.
5 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," p. 48).

Political Science as a Major

The Greek word "idiot" meant one who has no interest in politics and the affairs of state, which suggests that the study of political science is one of the oldest and most central of all intellectual activities. Political scientists ask "What is the best form of government? How do various governments around the world actually work?"

Political science students work with questions as old and important as these, as well as with recently developed social science research techniques. Courses in political science encourage students to question, analyze, and reason, and to do these things in precise and thoughtful language. Students will acquire useful insight into the inner workings of all levels of government and the relationships between government and the private sector.

Political science is one of the most versatile majors in the liberal arts. Political science students are encouraged to tailor their degree programs to their particular career plans. Those interested in foreign affairs should stress a foreign language. Students 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.

Pre-Dentistry

Pre-Professional
(Select Academic Unit)

Marian George
Health Professions Adviser
Telephone 618 536-2147
A-185 Neckers Building

The SIUC pre-dental program meets the general requirements of all United States dental schools. The pre-professional program in pre-dentistry meets the objectives of students planning for dental careers and prepares them to take the Dental Admission Test, which must be done not later than spring of the junior year. The Health Professions Information Office offers information and guidance to pre-dental students.

NOTE: The following is a *suggested* curriculum. For specific information consult the *1996-97 Undergraduate Catalog.*

First Year		Fall	Spring
ZOOL 118	Principles of Animal Biology[1]	4	–
Select	Social Science[3]	3	–
Select	Fine Arts[3]	–	3
ENGL 101,102	Composition I *and* Composition II	3	3
Select	Human Health [3]	2	–
MATH 108	College Algebra	3	–
MATH 109	Trigonometry and Analytic Geometry	–	3
ZOOL 220b	Diversity of Animal Life (Vertebrate)[1]	–	4
Select	Humanities[3]	–	3
		15	16

Second Year		Fall	Spring
PSYC 102	Introduction to Psychology	3	–
Select	Humanities[3]	3	–
SPCM 101	Introduction to Oral Communication	–	3
CHEM 200,201	Introduction to Chemical Principles *and* Lab[2]	4	–
CHEM 210,211	General and Inorganic Chemistry *and* Lab[2]	–	4
PHYS 203a,b/ 253a,b	College Physics and Lab	4	4
Select	electives	1/3	3
		15/17	14

1 Community college students may substitute one or two semesters of general biology with laboratories for zoology if the biology courses are intended for science majors.

2 Students lacking high school chemistry must begin with CHEM 140a. 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.

3 See "University Core Curriculum," p. 39.

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 to dental school after three years of undergraduate preparation. Most students, however, are admitted 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, students should choose from among the following courses, as their time permits: genetics, cellular biology, embryology, developmental biology, comparative anatomy, microbiology, biochemistry, psychobiology, personality or social psychology. Additional mathematics, statistics, humanities, and social sciences will also be helpful.

Dentistry As A Career

Professional training requires four years in the dental school. Specialties beyond general practice require further training. Dentistry is becoming increasingly involved in the detection of a variety of diseases and in aesthetic improvement, correction and reconstruction, preventive dental care, and community health care, as well as private practice.

Pre-Law

(Pre-Professional)
College of Liberal Arts

Pre-Law Adviser
Telephone 618 453-3388
1229 Faner Hall

The Association of American Law Schools and the Southern Illinois University School of Law emphasize that the effectiveness of pre-legal study cannot be advanced by prescribed courses of study or extracurricular activities. Instead, students should cultivate basic skills and insights through education for comprehension and expression in words, for critical understanding of the human institutions and values with which law deals, and for creative power in thinking. This is best achieved in fields of individual interests and abilities. Subjects that 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. Students are therefore advised to place as much emphasis on the liberal arts as their own programs 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.

Composition and Introduction to Oral Communication courses develop the power of clear and well-ordered expression. Courses in which students receive intensive faculty critiques of their writing and speaking skills are highly recommended. .

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.

See "University Core Curriculum," p. 39, to determine what courses may be taken to satisfy the university core curriculum requirements.

Pre-Law

Pre-law is not a major; there is no 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 from which they would like to obtain a degree.

Pre-Medicine (including Osteopathic Medicine)

Pre-Professional
(Select Academic Unit)

Marian George
Health Professions Adviser
Telephone 618 536-2147
A-185 Neckers Building

The pre-medical program at SIUC is guided by the Health Preprofessional Committee. Through the Health Professions Information Office, students are able to obtain information about 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.

NOTE: The following is a *suggested* curriculum. For specific information consult the *1996-97 Undergraduate Catalog.*

First Year		Fall	Spring
ZOOL 118	Principles of Animal Biology[2]	4	–
Select	Social Science[1]	–	3
Select	Humanities[1]	–	3
ENGL 101,102	Composition I *and* Composition II	3	3
Select	Human Health[1]	2	–
MATH 108	College Algebra	3	–
MATH 109	Trigonometry and Analytic Geometry	–	3
ZOOL 220b	Diversity of Animal Life (Vertebrate)[2]	–	4
Select	Fine Arts[1]	3	–
		15	16

Second Year		Fall	Spring
PSYC 102	Introduction to Psychology	3	–
Select	Humanities[1]	3	–
SPCM 101	Introduction to Oral Communication	3	–
CHEM 200,201	Introduction to Chemical Principles *and* Lab[3]	4	–
CHEM 210,211	General and Inorganic Chemistry *and* Lab	–	4
MATH 150	Calculus I	–	4
PHYS 203a,b/ 253a,b	College Physics *and* Lab	4	4
Select	Electives[4]	1/2	3/6
		18/19	15/18

[1] See "University Core Curriculum," p. 39.

[2] Community college students may substitute a year of general biology with laboratory if the course is intended for science majors.

[3] Students lacking high school chemistry must take CHEM 140a prior to CHEM 200. Chemistry majors should begin chemistry in the first year.

[4] 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 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 Preprofessional 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 pre-medical students at SIUC may approach their undergraduate requirements, as well as the quality of the pre-medical preparation, make it possible for students to achieve excellent pre-medical training.

Pre-Nursing

Pre-Professional
Pre-Major Advisement Center

Virginia Rinella
Pre-Major Advisement Center
Telephone 618 453-4351
Wing C, Room 117 Woody Hall
or
Richard Oakey
Pre-Major Advisement Center
Telephone 618 453-4351
Wing C, 117 Woody Hall

A bachelor's degree in nursing is offered at Southern Illinois University at Edwardsville. Students may complete selected university core curriculum and nursing prerequisites at Carbondale during their first three or four semesters and apply for admission to the Southern Illinois University at Edwardsville School of Nursing for the remainder of the bachelor's degree program.

The total program is designed for those who wish to become registered nurses or for registered nurses who wish to strengthen their scientific basis for nursing practice, to broaden and deepen their general educational and cultural background, or to obtain a bachelor's degree to qualify for graduate study.

NOTE: The following is a *suggested* curriculum. For specific information consult the *1996-97 Undergraduate Catalog.*

First Year		Fall	Spring
*Select	Social Science (100-level)	3	–
PSYC 102	Introduction to Psychology	–	3
PHIL 105	Elementary Logic	–	3
*Select	Humanities[1]	3	–
*ENGL 101,102	Composition I *and* Composition II	3	3
*SPCM 101	Introduction to Oral Communication	3	–
*CHEM 140a,b	Chemistry (inorganic, organic, and biochemistry) *and* Lab	4	4
*PHSL 301	Survey of Human Anatomy	–	4
		16	17

Second Year		Fall	Spring
Select	Advanced Social Science	3	3
PHIL 104	Moral Decision	–	3
*HED 311	Human Growth and Development	3	–
*MICR 301	Principles of Microbiology	4	–
*PHSL 208,209	Principles of Physiology *and* Lab	4	–
Select	Advanced Humanities	–	3
	Statistics or remaining nursing requirements	–	3-6
		14	12-15

[1] See "University Core Curriculum," p. 39.

* These courses are prerequisites for admission to SIUE School of Nursing. To be considered for admission a 2.7 grade-point average in these courses is required. A grade of *C* or above is required for each of these classes.

As soon as possible after advisement for the fall semester of the freshman year, students should see the nursing adviser, Mr. Oakey, for information about applying to the School of Nursing at SIUE. Applications for the fall semester are made between Sept. 1 and Feb. 28/29; applications for spring semester are made between Mar. 1 and Aug. 31. At least five semesters at SIUE are required for completing the bachelor's degree in the nursing program.

SIUE has a constitution requirement that must be met to receive the Bachelor of Science degree in nursing.

Pre-Optometry

Pre-Professional
(Select Academic Unit)

Marian George
Health Professions Adviser
Telephone 618 536-2147
A-185 Neckers Building

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 bachelor's degree. In view of this fact, community college students will be better prepared by fulfilling requirements for an A.A. degree and postponing some optometry requirements until the third and fourth years.

NOTE: The following is a *suggested* curriculum. For specific information consult the *1996-97 Undergraduate Catalog.*

First Year[1]		Fall	Spring
ZOOL 118	Principles of Animal Biology[3]	4	–
PSYC 102	Introduction to Psychology	–	3
Select	Humanities[2]	3	3
ENGL 101,102	Composition I *and* Composition II	3	3
MATH 108	College Algebra	3	–
MATH 109	Trigonometry and Analytic Geometry	–	3
ZOOL 220b	Diversity of Animal Life (Vertebrate)[3]	–	4
		13	16

Second Year		Fall	Spring
Select	Fine Arts[2]	3	–
CHEM 200,201	Introduction to Chemical Principles *and* Lab[4]	4	–
CHEM 210,211	General and Inorganic Chemistry *and* Lab	–	4
MATH 150	Calculus I (with analytic geometry)	4	–
MATH 282	Statistics[5]	–	3
PHYS 203a,b/ 253a,b	College Physics and Lab	4	4
Select	elective	–	3/5
		15	14/16

[1] See information above concerning course selection.
[2] See "University Core Curriculum," p. 39.
[3] 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.
[4] 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 140a.
[5] 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. Some optometry schools require a course in either human or comparative anatomy and a year of college-level 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.

Pre-Pharmacy

Pre-Professional
College of Science

Marian George
Health Professions Adviser
Telephone 618 536-2147
A-185 Neckers Building

Recent changes in pharmacy programs make it imperative that pre-pharmacy students have a particular school in mind and be aware of its requirements. There are two Illinois pharmacy schools: the Chicago College of Pharmacy (now part of Midwestern University), offering a bachelor's degree and the University of Illinois at Chicago, offering a doctor of pharmacy (Pharm.D.). Both programs require two years of preparatory courses.

NOTE: The following is a *suggested* curriculum. For specific information consult the *1996-97 Undergraduate Catalog.*

First Year		Fall	Spring
ZOOL 118	Principles of Animal Biology[1]	4	–
SOC 108	Introduction to Sociology	–	3
ENGL 101,102	Composition I *and* Composition II	3	3
CHEM 200,201	Introduction to Chemical Principles *and* Lab	4	–
CHEM 210,211	General and Inorganic Chemistry *and* Lab	–	4
MATH 108	College Algebra	3	–
MATH 109	Trigonometry and Analytic Geometry	–	3
PLB 200	General Plant Biology	–	4
		14	17

Students may need to enroll in additional courses during the summer term to avoid overloads during regular semesters. (See "In Addition" below).

Second Year		Fall	Spring
PSYC 102	Introduction to Psychology	3	–
SPCM 101	Introduction to Oral Communication	3	–
CHEM 340, 342	Organic Chemistry	3	3
CHEM 341, 343	Laboratory Techniques	2	2
MATH 140 or 141	Short Course in Calculus	–	4
MICRO 301	Principles of Microbiology	4	–
PHSL 301	Survey of Human Anatomy	–	4
Electives	See additional requirements below	–	3
		15	16

[1] May substitute a biology course with laboratory if it is a course for biological science majors.

In Addition

Students must complete 14 additional semester hours of university core curriculum 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 bachelor of pharmacy program is offered 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 to the St. Louis program should take calculus and physics in the first year, if possible. During the second year they should add PHSL 310, Western cultural tradition, and physics (if not taken in the first year) but may delete microbiology and speech. It is advantageous, however, for students to transfer to St. Louis for the second year, as courses are offered that are taught only by the pharmacy school.

*One of these courses must meet the University of Illinois cultural diversity requirement.

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 doctor's degree.

Pre-Physical Therapy

Pre-Professional
College of Science

Marian George
Health Professions Adviser
Telephone 618 536-2147
A-185 Neckers Building

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 from nine months to a year in advance of the beginning date at the professional schools.

NOTE: The following is a *suggested* curriculum. For specific information consult the *1996-97 Undergraduate Catalog.*

First Year		Fall	Spring
ZOOL 118	Principles of Animal Biology	–	4
PSYC 102	Introduction to Psychology	–	3
Select	Humanities[1]	3	–
ENGL 101,102	Composition I *and* Composition II	3	3
Select	Human Health[1]	2	–
CHEM 200,201	Introduction to Chemical Principles *and* Lab	4	–
CHEM 210,211	General and Inorganic Chemistry *and* Lab	–	4
MATH 108	College Algebra	3	–
MATH 109	Trigonometry and Analytic Geometry	–	3
		15	17

Second Year		Fall	Spring
Select	Humanities[1]	–	3
SPCM 101	Introduction to Oral Communication	–	3
Select	Fine Arts[1]	3	–
PHSL 310	Introductory Human Physiology *or* other approved physiology course	–	4/5
PHYS 203a,b/ 253a,b	College Physics *and* Lab	4	4
PSYC 301	Child Psychology	3	–
PSYC 305	Personality Psychology	3	–
PSYC 431	Psychopathology	–	3
ZOOL 220b	Diversity of Animal Life (Vertebrate)	4	–
		16	17–18

[1] See "University Core Curriculum," p. 39.

Also required are current certifications in cardiopulmonary resuscitation (CPR) and first aid.

Recommended electives include Anatomy (PHSL 301), Kinesiology (PE 302 or 303), Psychobiology (PSYC 302), sports or skill-oriented physical education courses, and additional social science courses. Students may prefer to attend summer sessions or spread pre-physical therapy course work through more than two years.

Third and Fourth Years

Northwestern University now requires students to have a bachelor's degree before entering their physical therapy program. The degree may be in any discipline, provided that specific physical therapy requirements are met. The program is two years long and results in a master's degree.

Students who complete training in any of the other three Illinois PT programs are currently admitted with two years (minimum) of specific course work and earn the bachelor's degree in two more years at the PT school.

STUDENTS WHO DECIDE TO REMAIN AT SIUC FOR A BACHELOR'S DEGREE MUST CONSULT AN ACADEMIC ADVISER AND PLAN A CURRICULUM LEADING TO A DEGREE IN AN APPROVED PROGRAM. The pre-physical therapy curriculum does not lead to any SIUC degree, nor does it guarantee admission into a professional school.

New requirements are expected. Other physical therapy programs are changing over to a master's degree. A few have already made the change, requiring students to have a bachelor's degree before entering physical therapy school. Students are advised to contact the professional school where they might want to finish in order to keep up-to-date on their specific requirements.

Pre-Podiatry

Pre-Professional
College of Science

Marian George
Health Professions Adviser
Telephone 618 536-2147
A-185 Neckers Building

Podiatrists diagnose and treat foot disorders caused by injury or disease and also perform foot surgery. SIUC's pre-podiatry program meets the general requirements of all United States podiatry schools. The following curriculum prepares students to take the Medical College Admissions Test in the spring of their junior year. The Health Professions Information Office offers information and guidance to pre-podiatry students and assists in the process of application by furnishing a composite letter of recommendation for each student who applies to podiatry school.

NOTE: The following is a *suggested* curriculum. For specific information consult the *1996-97 Undergraduate Catalog.*

First Year		Fall	Spring
ZOOL 118	Principles of Animal Biology[1]	4	–
PSYC 102	Introduction to Psychology	3	–
ENGL 101,102	Composition I *and* Composition II	3	3
SPCM 101	Introduction to Oral Communication	–	3
Select	Human Health[2]	2	–
MATH 108	College Algebra	3	–
MATH 109	Trigonometry and Analytic Geometry	–	3
ZOOL 220b	Vertebrate Zoology	–	4
Select	Fine Arts[2]	–	3
		18	16

Second Year		Fall	Spring
PHIL 105	Elementary Logic	3	–
Select	Humanities[2]	–	3
BIOL	Biological Sciences[3]	–	3
CHEM 200,201	Introduction to Chemical Principles *and* Lab	4	–
CHEM 210,211	General and Inorganic Chemistry *and* Lab	–	4
MATH 150	Calculus	4	–
PHYS 203a,b/ 253a,b	College Physics *and* Lab	4	4
		15	14

[1] Community college students may substitute a year of general biology with laboratory if the course is intended for science majors.
[2] See "University Core Curriculum," p. 39.
[3] Select from BIOL 305, 306, 308, or 309.

Third and Fourth Years

Pre-podiatry students must complete organic chemistry in the third year in order to take the Medical College Admission Test in the spring of that year.

No degree is given in pre-podiatry. Students must complete the major and college requirements for a bachelor's degree. Podiatry schools state some preference for biological science majors, but other majors are acceptable.

Podiatry as a Career

Professional training requires four years. Residencies of one to three years are required for specialties beyond general practice as a podiatrist.

Pre-Veterinary Medicine

Pre-Professional
(Select Academic Unit)

Marian George
Health Professions Adviser
Telephone 618 536-2147
A-185 Neckers Building

The pre-veterinary medicine curriculum is based on the requirements for application to University of Illinois College of Veterinary Medicine, the only veterinary school in Illinois. Although most accepted students have completed a bachelor's degree, students may apply to professional school after two years' undergraduate preparation. Some students choose to spread the required pre-veterinary courses through a third year. Students completing a degree should choose a major in either the School of Agriculture or the College of Science.

NOTE: The following is a *suggested* curriculum. For specific information consult the *1996-97 Undergraduate Catalog.*

First Year		Fall	Spring
ZOOL 118	Principles of Animal Biology[1]	4	–
Select	Social Science[2]	–	3
Select	Humanities[2]	–	3
ENGL 101,102	Composition I *and* Composition II	3	3
ANS 121	Science of Animals	3	–
ANS 122	Production and Processing Practices	1	–
PLB 200	General Plant Biology *and* Lab[1]	–	4
MATH 108	College Algebra	3	–
MATH 109	Trigonometry and Analytic Geometry	–	3
		14	16

Second Year		Fall	Spring
Select	Social Science[2]	–	3
Select	Humanities[2]	3	–
SPCM 101	Introduction to Oral Communication	3	–
Select	Human Health[2]	2	–
BIOL 305	Genetics—Classical and Molecular	–	3
CHEM 200,201	Introduction to Chemical Principles *and* Lab	4	–
CHEM 210,211	General and Inorganic Chemistry *and* Lab	–	4
PHYS 203a,b/ 253a,b	College Physics and Lab	4	4
		16	14

[1] Community college students should substitute general biology, if available, for zoology and plant biology listed.

[2] See "University Core Curriculum," p. 39.

Third and Fourth Years

Students must complete organic chemistry and biochemistry. In addition to required pre-veterinary courses, there are recommended courses from which students may choose in accordance with their available time. These include horses, animal nutrition, behavioral manipulation of animals, vertebrate zoology, comparative anatomy, cell physiology, environmental biology, and organismic functional biology.

No degree is given in pre-veterinary studies. Students should choose an academic major in a science or in animal science and complete degree requirements simultaneously with the admission requirements of the veterinary school. Admission is competitive and is usually granted to the best-prepared students. Most first-year veterinary students have four or more years of pre-veterinary education.

Veterinary Medicine As A Career

Completion of training in a school of veterinary medicine requires four years. The University of Illinois veterinary medicine program accepts Illinois residents, although a few out-of-state students may be accepted. While pre-veterinary students are preparing to apply to the veterinary school, they can develop related or alternate interests in the diverse offerings at SIUC.

Professional veterinarians have a variety of career choices—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

Pursuing a career as a psychologist normally requires at least two years of graduate work. The bachelor of arts degree program in psychology will prepare a student for graduate work in psychology. The program also meets the objectives of students who want an interesting major but plan no postgraduate academic work, those who plan non-psychology graduate work for which an undergraduate major may be useful, and those preparing for graduate work in social welfare, rehabilitation counseling, or medical school.

The psychology major comprises thirteen psychology courses for 40 semester hours' credit. College algebra or finite mathematics is also required.

NOTE: The following is a *suggested* curriculum. For specific information consult the *1996-97 Undergraduate Catalog.*

First Year		Fall	Spring
Select	Science[1]	–	3
PSYC 102	Introduction to Psychology	3	–
Select	Humanities[1]	–	3
ENGL 101,102	Composition I *and* Composition II	3	3
Select	Human Health[1]	–	2
MATH 108/139	College Algebra *or* Finite Mathematics[2]	–	3
MATH 110/113	Non-Technical Calculus or Introduction to Contemporary Mathematics	3	–
Select	Electives[3]	6	3
		15	17

Second Year		Fall	Spring
Select	Science[1]	3	–
Select	Social Science[1]	–	3
Select	Humanities[1]	–	3
SPCM 101	Introduction to Oral Communication	3	–
Select	Foreign Language[4]	4	4
Select	Psychology Elective[5]	3	3
Select	Elective[3]	–	3
		13	16

1 See "University Core Curriculum," p. 39.
2 Required for a major in psychology.
3 Elective hours should be used to explore areas of interest, to enhance career opportunities, or to satisfy liberal arts requirements (see "College of Liberal Arts," p. 48).
4 Two semesters (usually 8 semester hours) of a foreign language are required for all liberal arts students.
5 The required core of courses (PSYC 102, PSYC 211 and 212) must be passed with a grade of *C* or better.

Psychology as a Major

The major program is aimed at providing broad general education rather than training in specialized psychological skills.

Representative First Job Titles: alcoholism and drug addiction researcher, child care worker, sales agent, senior citizens center (director), prisoner classification interviewer, probation and parole in-charge, rehabilitation and resettlement personnel, claims authorizer, drug abuse counselor, mental health clinic technician.

Radio-Television

College of Mass Communication and Media Arts
(Bachelor of Arts)

Dr. Michael F. Starr, Chairperson
Telephone 618 536-7555
1056 Communications Building

The bachelor of arts degree program in radio-television meets the objectives of students preparing for leadership positions in the broadcasting industry or in related fields. Students are encouraged to focus their studies in one of three specializations— *broadcast news, production,* or *marketing and management*—and to gain actual experience in any phase of broadcasting at University-operated or local commercial radio and television stations.

NOTE: The following is a *suggested* curriculum. For specific information consult the *1996-97 Undergraduate Catalog.*

First Year		Fall	Spring
Select	Science[1]	3	3
Select	Social Science[1]	3	3
Select	Humanities[1]	3	3
*ENGL 101,102	Composition I *and* Composition II[2]	3	3
SPCM 101	Introduction to Oral Communication	–	3
Select	Human Health[1]	2	–
		14	15

Second Year		Fall	Spring
Select	Fine Arts[1]	3	–
Select	Integrative Studies[1]	3	3
Select	Mathematics[1]	–	3
*MCMA 201	Introduction to Broadcast Writing, Performance, and Production[3]	–	3
*RT 300P	History and Foundations of Broadcasting[3]	3	–
Select	Foreign Language *or* Computer Science	3–4	3–4
		12–13	12–13

* Required courses for a major in Radio-Television.

1 See "University Core Curriculum," p. 39.

2 Each student in Radio-Television must complete ENGL 101 and 102 with a grade of *B* by the end of his or her sophomore year, or a grade of *C* in English 290 (advanced composition) in order to take advanced courses in radio-television. Students must also obtain a satisfactory score on the Language Skills Exam before enrolling in any advanced R-TV courses.

3 Radio-Television 300M and MCMA 201 are required of all majors before enrollment in other radio-television courses is permitted. Both RT 300M and MCMA 201 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 MCMA 201 may qualify for a competency test over that curriculum. If the RT 300M and/or MCMA 201 test is passed, students need not repeat RT 300M and/or MCMA 201 at SIUC. Other broadcasting credits from two-year institutions may apply toward the major, as determined by course evaluations administered through the RT advisement office.

A minor of 15 semester hours is required of all students in radio-television. The minor should comprise courses in a single discipline outside the department and include courses beyond the university core curriculum level. Students should consult with an academic adviser for specific recommendations.

The major in radio-television consists of 36–42 semester hours in radio-TV course work. All students are required to take RT 300M, MCMA 201, RT 305, RT 308, and RT 393. In addition, they are expected to develop a specialization in a single area by taking three or four concentrated courses in either broadcast news, production, or marketing and management. Students are also required to complete at least 6 semester hours in computer programming or foreign language. The Department of Radio-Television, with approximately 400 students, is one of the largest and most respected programs of its kind in the nation.

Representative First Job Titles: producer, director, sales representative, news writer, copywriter, news reporter, newscaster, announcer, program director, sales manager, researcher, community affairs director, disc jockey, station manager, broadcast engineer, radio account executive, camera technician, scriptwriter, news and assignment editor, continuity director.

Radiologic Technology

College of Technical Careers
(Associate in Applied Science)

Steven Jensen, Program Representative
Telephone 618 453-8882
114 Technical Careers Building

Radiography is the process of producing x-ray films that enable physicians to diagnose disease processes occurring in the human body. The associate in applied science degree program in radiologic technology with a radiography specialization meets the objectives of students planning to become registered radiologic technologists.

Students who complete the program have the educational requirements necessary to take the national certification examination administered by the American Registry of Radiologic Technologists. Since 1980, 95 percent of SIUC program graduates have successfully completed this examination. This number is well above the national average.

To be accepted into the radiologic technology degree program students must have completed the university core curriculum courses listed under "First Year" below. Advanced radiologic technology courses combine classroom and clinical education; this allows graduates to become eligible for registry and to receive an associate in applied science degree in radiologic technology.

First Year – Prerequisites

Fall		Lecture	Lab	Clinic	Credits
MATH 110/113	Non-Technical Calculus *or* Introduction to Contemporary Mathematics	3	–	–	3
SPCM 101	Introduction to Oral Communication	3	–	–	3
AHC 141	Introduction to Physiology and Human Anatomy	4	–	–	4
Elective	Secondary Specialty–Allied Health	3	–	–	3
AHC 105	Medical Terminology	3			
					16
Spring					
CHEM106/ IMS 126	Chemistry and Society *or* Technical Physics	3	–	–	3
PSYC 102	Introduction to Psychology	3	–	–	3
ENGL 101	Composition I	3	–	–	3
Elective	Secondary Specialty–Allied Health	6	–	–	6
					15/16

Second Year – Professional Courses

Fall		Lecture	Lab	Clinic	Credits
RAD 102	Introduction to Radiologic Technology and Radiographic Technique	4	–	–	4
RAD 112	Anatomy and Positioning I (8 wks.)	3	6	–	3
RAD 132	Anatomy and Positioning II (8 wks.)	3	6	–	3
RAD 202	Radiographic Physics	3	–	–	3
					15/16
Spring					
RAD 222	Clinic I (16 weeks)			40*	10
RAD 372A	Film Critique I	2	–	–	2
					12
Summer					
RAD 212	Special Procedures	4	–	–	2
RAD 232	Selected Systems Radiography	6	4	–	4
					6

Third Year – Professional Courses

Fall		Lecture	Lab	Clinic	Credits
RAD 332	Clinic II (16 weeks)	–	–	40*	10
RAD 372B	Film Critique II	2	–	–	2
					12
Spring					
RAD 312	Radiographic Pathology	3	–	–	3
RAD 322	Sectional Anatomy, Magnetic Resonance Imaging, and Computed Tomography	3	2	–	3
RAD 342	Radiation Biology	3	–	–	2
RAD 352	Special Imaging Modalities	4	–	–	4
					13

Summer					
AHC 362	Clinic III (8 wks.)	–	–	40*	4
AHC 372C	Film Critique (2 wks.)	16	–	–	2

For more information consult the *1996-97 Undergraduate Catalog.*

* Students are assigned to regional hospitals for 40 hours per week, throughout the semester. Clinic hours are arranged between 8 A.M. and 4:30 P.M., Monday through Friday, at most sites.

Radiologic Technology as a Major

Enrollment in the program is restricted by the availability of clinical facilities. Eleven area hospitals are used for clinical experiences.

Selection of the fall class will be completed on a first qualified, first served basis. Special application materials are included with the requirements for admission to the program. The program is usually filled by April 15. However, applications will be processed and considered after that date as space becomes available. A "linkage" program allows students at eleven area community colleges and one university to complete the first year of prerequisite coursework and then transfer to SIUC for completion of the two-year "professional" sequence.

Recreation
(Program Services)
(Therapeutic Recreation)
College of Education
(Bachelor of Science)

Dr. Regina Glover, Chair
Telephone 618 453-4331
307 Pulliam Hall

Jacquelyn Bailey
Chief Academic Adviser
Telephone 618 453-2354
135 Wham Education Building

The specializations in program services and therapeutic recreation in the bachelor of science degree program in recreation meet the objectives of students planning careers in the management of leisure-time pursuits. The program services specialization emphasizes campus recreation services, commercial recreation management, outdoor recreation management, or recreation administration and management. The therapeutic recreation specialization emphasizes help for people who lack skills that would let them participate in recreational activities.

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.

NOTE: The following is a *suggested* curriculum. For specific information consult the *1996-97 Undergraduate Catalog.*

First Year		Fall	Spring
Select	Science[1,2]	–	3
Select	Social Science[1]	3	–
PSYC 102	Introduction to Psychology[3]	–	3
Select	Humanities[1]	3	3
ENGL 101,102	Composition I *and* Composition II	3	3
Select	Mathematics[1]	3	–
Select	Fine Arts[1]	3	–
Select	Human Health[1]	–	2
		15	14

Second Year		Fall	Spring
Select	Science[1]	–	3
Select	Integrative Studies[1]	3	3
SPCM 101	Introduction to Oral Communication	3	–
HED 334	Standard First Aid	–	3
Select	Accounting electives[4]	3	–
Select	Psychology electives	3	3
Select	electives	3	3
		15	15

* Recommended, not required.

1 See "University Core Curriculum," p. 39.

2 Therapeutic recreation specialization requires a course in anatomy and physiology approved by the department.

3 Department requirement.

4 Program services specialization requires a course in accounting approved by the department.

Recreation As A Major

Students are expected to choose courses that provide 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, and workshop certificates in recreation sponsored by the state and national recreation and park associations. 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.

Respiratory Therapy Technology

College of Technical Careers
(Associate in Applied Science)

Stanley Pearson
Program Representative
Telephone 618 453-7221
137 Technical Careers Building

The associate in applied science degree program in respiratory therapy meets the objectives of students planning to become registered respiratory therapists. Completion of the program 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 Examination (CPFT).

Respiratory therapy is an allied health specialty concerned with the treatment, diagnostic testing, control, and care of patients with deficiencies and abnormalities associated with breathing. It involves the therapeutic use of medical gases and administering apparatus, environmental control systems, medications, ventilatory control and breathing exercises, cardiopulmonary resuscitation, maintenance of natural, artificial, and mechanical airways, and diagnostic cardiac and pulmonary function studies.

Requirements for Major in Respiratory Therapy

First Year		Fall	Spring
CHEM106	Chemistry and Society	3	–
ZOOL 115	General Biology	3	–
PSYC 102	Introduction to Psychology	–	3
ENGL 101	Composition I	3	–
MATH 110/113	Non-Technical Calculus *or* Introduction to Contemporary Mathematics	3	–
SPCM 101	Introduction to Oral Communication	–	3
IMS 229	Computing for Business Administration	3	–
AHC 141	Introduction to Physiology and Human Anatomy	–	4
MICRO 201	Microbiology	–	4
PHYS 101	The Physics of Modern Communication	–	3
AHC 105	Medical Terminology	2	–
		17	17

Second Year		Fall	Spring
RESP 203	Principles of Respiratory Therapy	5	–
RESP 213	Respiratory Therapy Exercises	1	–
RESP 223	Patient Care Techniques	2	–
RESP 243	Cardiopulmonary Physiology	3	–
RESP 253	Clinical Practice I	1	–
RESP 263	Principles of Mechanical Ventilation	–	3
RESP 273	Mechanical Ventilation Laboratory	–	1
RESP 283	Survey of Pulmonary Diseases	–	3
RESP 293	Clinical Practice II	–	2
RESP 323	Respiratory Pathophysiology	–	3
RESP 313	Pharmacology	3	–
HCM 364	Health Care Supervision	3	–
RESP 363	Pulmonary Evaluation and Monitoring	–	3
		18	15

		Summer
AHC 300	Trends and Issues in Allied Health	3
RESP 343	Neonatal/Pediatric Respiratory Care	2
RESP 303	Clinical Simulations	1
		6

Third Year		Fall
RESP 353	Clinical Internship	8
RESP 373	Clinical Practice III –Special Procedures	2
RESP 353b	Clinical Practice III –Research Project	2
		12

* The electives (6 semester hours) recommended are: management, computer science (word processing, data base, and spread sheet), medical terminology, or other allied health or nursing courses. Students should contact the respiratory therapy coordinator about the specific courses.

For more information consult the *1996-97 Undergraduate Catalog.*

The Respiratory Therapy Program

The first year of the program comprises university core curriculum and science support courses, which may be taken at either the University or a community college. Second-year courses, all professional work in respiratory therapy, comprise classroom and laboratory work as well as off-campus clinical experiences in a variety of locations. This variety will give students a chance to view a wide assortment of procedures. On satisfactory completion of the curriculum, students are awarded an associate of applied science degree.

Students should plan to complete all prerequisites before starting the professional sequence. They should have all program application materials completed by early in the spring semester for fall entry. Program enrollment is restricted by the availability of clinical sites and instructors.

During the regular semesters students will have both classroom and clinical education experiences; the final fall semester will be a full-time clinical internship at a designated full-service hospital, often in or near the student's home town in Illinois.

Post-associate courses leading to a bachelor's degree are available.

Occupational reviews place health care as a top growth profession to the year 2005, with respiratory care as a top-ten profession in the category.

Russian*

College of Liberal Arts
(Bachelor of Arts)

Dr. Thomas Keller, Chair
Telephone 618 536-5571
2162 Faner Hall

The bachelor of arts degree program in Russian meets the objectives of students preparing for employment in language-centered careers and in non-language areas where language proficiency is a supporting factor. Government agencies and businesses with international dealings employ great numbers of individuals—scientists, engineers, librarians, social workers—whose primary skills are basically non-linguistic, but who can enhance their employment and career possibilities with appropriate training in foreign languages.

Bachelor's degree programs (with or without teacher certification) are offered in classics, foreign language and international trade, French, German, Russian, and Spanish. There is also course work in East Asian studies for students who have professional or occupational interests in Asia.

Great personal satisfaction and substantial growth in intellectual resources can be found in the mastery of a new language.

Students majoring in a foreign language usually begin at the second or third level. Students who have taken two years of one foreign language in high school (or equivalent) have the option to earn proficiency credit through taking a proficiency examination in Latin at Testing Services, or in Chinese, Greek, Japanese, or Russian at the foreign languages and literatures department. The foreign language department will honor CLEP exams in French, German and Spanish. As an alternative or for additional credit, students *who can enter at the 200 level or above* are encouraged to take a validating course. Since credit of up to 16 hours is available, such students are in an advantageous position to complete a double major.

NOTE: The following is a *suggested* curriculum. For specific information consult the *1996-97 Undergraduate Catalog.*

First Year		Fall	Spring
Select	Science[1]	–	3
Select	Social Science[1]	3	3
Select	Humanities[1]	3	–
ENGL 101,102	Composition I *and* Composition II[1]	3	3
Select	Mathematics[1]	–	3
Select	Human Health[1]	2	–
RUSS 136a,b	Elementary Russian[2]	4	4
		15	16/17

Second Year[3]		Fall	Spring
Select	Science[1,3]	3	3/4
Select	Fine Arts[1]	–	3
Select	Humanities[1]	3	–
SPCM 101	Introduction to Oral Communication	3	–
Select	Integrative Studies[1]	3	3
RUSS 201a,b	Intermediate Russian[4]	4	4
Select	elective	–	3
		16	16/17

* See also Foreign Language (Teaching), p. 123.

1 See "University Core Curriculum," p. 39.

2 Two semesters (usually 8 semester hours) of a foreign language are required for all Liberal Arts students. The first year of Russian does not count toward the major.

3 SIUC College of Liberal Arts requires one science course with lab in addition to the university core curriculum science requirement.

4 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.

Russian As A Major

A major in Russian consists of 36 semester hours in courses above the 100 level, with a minimum of 12 hours on the 300 level, 12 hours on the 400 level—including at least one literature course— and 4 hours of 300- or 400-level Russian electives. A minor in Russian consists of 18 semester hours in courses above the 100 level.

Transfer students who major in a foreign language must complete a minimum of 12 semester hours in language courses at SIUC.

Representative First Job Titles: customer services personnel, airline stewardess, public relations officer, publications personnel, executive secretary, interpreter, continuity writer, copywriter, correspondent, critical writer, editorial writer, feature writer, program assistant.

Social Studies

College of Education
(Bachelor of Science)

Jacquelyn Bailey
Chief Academic Adviser
Telephone 618 453-2354
135 Wham Education Building

Dr. Billy Dixon, Chair
Telephone 618 536-2441
327 Wham Education Building

The bachelor of science degree program in social studies in the Department of Curriculum, Instruction and Media meets the objectives of students preparing to teach in junior and senior high schools. Graduates are certified by the Illinois State Board of Education to teach grades 6-12 and to teach in public and private settings throughout the United States and in some foreign countries. Students will take course work in history, political science, economics, geography, and anthropology, psychology, or sociology.

NOTE: The following is a *suggested* curriculum. For specific information consult the *1996-97 Undergraduate Catalog.*

First Year		Fall	Spring
Select	Science[1]	3	3/4
*ANTH 202	American Cultures	3	–
*POLS 114	Introduction to American Government and Politics[2]	3	–
*PSYC 102	Introduction to Psychology[2]	3	–
Select	Humanities[1]	–	3
ENGL 101,102	Composition I *and* Composition II	3	3
SPCM 101	Introduction to Oral Communication[2]	–	3
HED 101	Foundations of Human Health[2]	–	2
*POLS 213/ HIST 205A	State and Local Government *or* History of Western Civilization	–	3
		15	17/18

Second Year		Fall	Spring
Select	Interdisciplinary Studies[2]	3	–
*HIST 301	U. S. History	–	3
Select	Fine Arts[3]	3	–
ENGL 121/204	The Western Literary Tradition *or* Literary Perspectives on the Modern World[2]	–	3
Select	Mathematics[1]	3	–
*ECON 241	Introduction to Macroeconomics	–	3
Select	electives	–	6
HIST 205B	History of Western Civilization	3	–
*HIST 300	Origins of Modern America, 1492 to 1877	3	–
		15	15

* Required courses in social studies.
1 See "University Core Curriculum," p. 39.
2 Choose from PLB 301I, PLB 303I, or ZOOL 302I.
3 Choose from AD 101, MUS 103, HIST 201, and THEA 101.

University core curriculum courses required for teacher certification include PSYC 102, Introduction to Psychology; POLS 114, Introduction to American Government and Politics; HIST 110, Twentieth Century America; ENGL 101 and 102, Composition I and II; SPCM 101, Introduction to Oral Communication; HED 101, Foundations of Human Health or PE 101, Current Concepts of Physical Fitness; one approved English literature course; and one physical and one biological science course, one of which must include a laboratory. At least one three-semester-hour course must be taken in non-Western or Third World cultures.

Social Science As A Major

The bachelor of science degree program in social studies education will prepare students to teach social studies in middle school, junior high, and high school. A concentration in United States history, world history, political science, psychology, sociology, economics, geography, or anthropology may be added. Before the semester of student teaching students will have many opportunities to observe and work with young people in classrooms.

Students should be aware of requirements for entrance into the teacher education program (see p. 14).

Social Work

School of Social Work
(Bachelor of Science)

Dr. Jolanta Dziegielewska
Telephone 618 453-1235
3 Quigley Hall

The bachelor of science degree program in social work meets the objectives of students with career interests in the human services field. Positions in child welfare, gerontology, mental health, health services, women's programs, public and private social service agencies are typically available to graduates.

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.

NOTE: The following is a *suggested* curriculum. For specific information consult the *1996-97 Undergraduate Catalog.*

First Year		Fall	Spring
PLB 115 /ZOOL 115	General Biology[2]	–	3
PSYC 102, SOC 108	Introduction to Psychology *and* Introduction to Sociology	3	3
Select	Fine Arts	3	–
ENGL 101,102	Composition I *and* Composition II[1]	3	3
MATH 108/110 /113	College Algebra, Non-Technical Calculus, *or* Introduction to Contemporary Mathematics[1]	3	–
SPCM 101	Introduction to Oral Communication	–	3
Select	Multicultural Studies: Diversity in the U.S.[1]	–	3
Select	LAC 101 or other elective	2	–
		14	15

Second Year		Fall	Spring
Select	Science Group 1[1]	3	–
POLS 114, ECON 113	Introduction to American Government and Politics *and* Economics of Contemporary Social Issues	3	3
Select	Interdisciplinary Studies[1]	–	3
Select	Humanities[1]	3	3
Select	Human Health[1]	2	–
Electives	*or* courses for minor	5	6
		16	15

[1] See "University Core Curriculum," p. 39.
[2] Required courses for social work students.

Third and *Fourth Years*

The last two years of the program concentrate on specific professional objectives.

In addition to social work courses, an introduction to statistics course is required as well as two 300- or 400-level liberal arts electives selected from anthropology, economics, history, political science, psychology, or sociology.

An essential aspect of the social work program is an intensive field practicum that helps students integrate theoretical knowledge and helping skills learned in the classroom with the actual settings of Southern Illinois social service agencies. A concurrent weekly seminar supports this integration of theory and practice.

Representative First Job Titles: social worker, social welfare aide, casework manager, residential welfare facilitator, employment aide, cooperative extension service worker, recreation worker, alcoholism and drug addiction counselor, child placement agent, community planning and redevelopment expert, probation and parole officer, case aide, outreach worker, residential care worker, mental health worker, activities director.

Sociology

College of Liberal Arts
(Bachelor of Arts)

Dr. Joel Best, Chair
Telephone 618 453-2494
3384 Faner Hall

The bachelor of arts degree program in sociology meets the objectives of students considering employment in a wide range of organizations, from businesses to research institutes to social service agencies. A degree in sociology can also prepare students for graduate work in law, social work, public administration, rehabilitation, library science, and administration of just—as well as sociology.

Sociology is the science of society. It studies how human groups, institutions, and social movements shape people's lives. Because sociology prepares students to think and act critically in the practical details of life, sociology students study such topics as the city, juvenile delinquency, marriage and the family, sex roles, 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.

NOTE: The following is a *suggested* curriculum. For specific information consult the *1996-97 Undergraduate Catalog.*

First Year		Fall	Spring
Select	Science[1]	3	3
Select	Social Science[1]	–	3
Select	Humanities[1]	3	3
ENGL 101,102	Composition I *and* Composition II	3	3
Select	Mathematics[1]	3	–
Select	Human Health[1]	–	2
Select	Fine Arts[1]	–	3
Select	elective[2]	3	–
		15	17

Second Year		Fall	Spring
Select	Science[3]	4	–
Select	Social Science[1]	–	3
SPCM 101	Introduction to Oral Communication	3	–
Select	Foreign Language[4]	4	4
SOC 301	Principles of Sociology[5]	–	4
Select	electives[2]	3	3
		14	14

1 See "University Core Curriculum," p. 39.
2 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
3 SIUC College of Liberal Arts requires one science course with lab in addition to the university core curriculum science requirements.
4 Two semesters (usually 8 semester hours) of a foreign language are required for all liberal arts students. .
5 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 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 to give students actual experience in a variety of applied settings and to enhance mastery of specific skills sought by employers.

Representative First Job Titles: administrative aide (government), business management officer, child care worker, corrections/parole officer, community relations personnel, gerontologist, labor relations specialist, public survey analyst, social analyst, social stratification analyst, teacher, urban planner, administrative aide.

Spanish*

College of Liberal Arts
(Bachelor of Arts)

Dr. Thomas Keller, Chair
Telephone 618 536-5571
2162 Faner Hall

The bachelor of arts degree program in foreign language meets the objectives of students preparing for employment in language-centered careers or in non-language areas where language proficiency is a supporting factor. Government agencies and businesses with international dealings employ great numbers of individuals—scientists, Engineers, librarians, social workers—whose primary skills are basically non-linguistic, but who can enhance their employment and career possibilities with appropriate training in foreign languages.

There is also great personal satisfaction and substantial growth in intellectual resources in the mastery of a new language.

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 course work in East Asian studies for students who have a professional or occupational interest in Asia.

Students majoring in a foreign language usually begin at the second or third level. Students who have taken two years of one foreign language in high school (or equivalent) may earn proficiency credit through taking a proficiency examination in Latin at Testing Services or in Chinese, Greek, Japanese, or Russian at the foreign languages and literatures department. The Department of Foreign Languages and Literatures will honor CLEP exams in French, German, and Spanish. As an alternative, or for additional credit, students *who can enter at the 200 level or above* are encouraged to take a validating course. Since credit of up to 16 hours is available, such students are in an advantageous position to complete a double major.

NOTE: The following is a *suggested* curriculum. For specific information consult the *1996-97 Undergraduate Catalog.*

First Year		Fall	Spring
Select	Science[1]	–	3
Select	Social Science[1]	3	3
Select	Humanities[1]	3	–
ENGL 101,102	Composition I *and* Composition II[1]	3	3
Select	Mathematics[1]	–	3
Select	Human Health[1]	2	–
SPAN 140a,b	First-Year Spanish[2]	4	4
		15	16

Second Year		Fall	Spring
Select	Science[1,3]	3	3
Select	Fine Arts[1]	–	3
Select	Humanities[1]	3	–
SPCM 101	Introduction to Oral Communication	3	–
Select	Integrative Studies[1]	–	3
SPAN 201a,b	Second-Year Spanish[4]	4	4
SPAN 220a,b	Spanish Conversation[5]	2	2
		15	15

* See also "Foreign Languages (Teaching), p. 123.

1 See "University Core Curriculum," p. 39.

2 Two semesters (usually 8 semester hours) of a foreign language are required for all liberal arts students. The first year of Spanish does not count towards the major. Spanish 175–5 may substitute for 140 a,b.

3 SIUC College of Liberal Arts requires one science course with lab in addition to the university core curriculum science requirement.

4 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.

5 Only one semester of Intermediate Conversation may count toward the major.

Spanish As A Major

A major in Spanish consists of 36 semester hours in courses above the 100 level including 306, 320, and 411, plus any combination of 300- or 400-level courses that includes a literature course and at least nine additional 400-level hours.

A minor in Spanish consists of 18 hours in courses above the 100 level.

Transfer students who major in a foreign language must complete a minimum of 12 semester hours in language courses at SIUC.

Representative First Job Titles: customer services personnel, airline stewardess, public relations officer, publications personnel, executive secretary, announcer, continuity writer.

Special Education

College of Education
(Bachelor of Science)

Jacquelyn Bailey
Chief Academic Adviser
Telephone 618 453-2354
135 Wham Education Building

Dr. John Pohlmann, Chair
Telephone 618 536-7763
223 Wham Education Building

The bachelor of science degree program in special education meets the objectives of students preparing to work with children who are behaviorally disordered, mentally retarded, and learning disabled. Students seeking the Standard Special Certificate will complete a minimum 120-semester-hour program leading to approval in one of the three disability areas listed above. Students who wish to obtain joint certification in special education and elementary education must complete a 144- to 153-hour program.

NOTE: The following is a *suggested* curriculum. For specific information consult the *1996-97 Undergraduate Catalog.*

First Year		Fall	Spring
Select	Science[1,2]	3/4	3/4
HIST 110	Twentieth-Century America	3	–
ENGL 101,102	Composition I *and* Composition II	3	3
HED 101	Foundations of Human Health[2]	–	2
MATH 114	Algebraic and Arithmetic Systems	4/3	–
Select	approved non-Western or Third World culture course[3]	–	3
		12/14	11

Second Year		Fall	Spring
Select	Integrative Studies[1,2]	3	3
POLS 114	Introduction to American Government and Politics	–	3
PSYC 102	Introduction to Psychology	3	–
ENGL 121/204	The Western Literary Tradition *or* Literary Perspectives on the Modern World	–	3
SPCM 101	Introduction to Oral Communication	3	–
MUS 103	Music Understanding	3	–
PSYC 301	Child Psychology	–	3
MATH 314	Topics in Mathematics for Elementary Teachers	3	–
		15	12

1 See "University Core Curriculum," p. 39.

2 University core curriculum courses required for special education certification include PSYC 102, Introduction to Psychology; POLS 114, Introduction to American Government and Politics; HIST 110, Twentieth Century America; MUS 103, Music Understanding; ENGL 101 and 102, Composition I and II; SPCM 101, Introduction to Oral Communication; HED 101, Foundations of Human Health or PE 101, Current Concepts of Physical Fitness; one approved English literature course; and one physical and one biological science course, one of which must include a laboratory. At least one three-semester-hour course must be taken in non-Western or Third World cultures.

3 Refer to the SIUC Transfer Articulation Report or contact SIUC College of Education Advisement Center for course recommendations.

Special Education as a Major

The teacher education program is a professional education sequence that culminates in a semester of student teaching. The special education major is itself divided into two parts—a common core of classes and work in a chosen area of concentration. The special education core is designed to give students a thorough overview of the field, beginning with an introductory course. After that comes study in assessment, general procedures, and home-school coordination in special education, followed by child psychology and psychopathology or human behavior and mental health. Other subjects prepare students to teach reading, mathematics, arts, music, and physical activities.

Speech Communication
(Public Speaking)
College of Liberal Arts
(Bachelor of Science)

Wanda Oakey, Advisement
Telephone 618 453-3388
1229 Faner Hall

The bachelor of science degree program in speech communication with an interpersonal communication specialization meets the objectives of students considering careers in communication research, conflict management, and employee or client relations and interested in communication in interpersonal relationships, language in everyday interactions, group communication dynamics, and non-verbal and intercultural aspects of communication.

Many careers demand the ability to communicate well. The Department of Speech Communication offers a wide range of courses in the history, theory, and successful use of oral communication. The department also sponsors co-curricular activities in debate, forensics, performance studies, creative drama, and public relations. Students on the debate and forensics teams compete regularly and are ranked among the best in national competition. Creative drama students take performances to schools throughout Southern Illinois. Public relations students at SIUC have consistently won national recognition for their projects.

NOTE: The following is a suggested curriculum. For more specific information consult the *1996-97 Undergraduate Catalog.*

First Year		Fall	Spring
Select	Science[1]	3	3
Select	Social Science[1]	3	3
Select	Humanities[1]	–	3
SPCM 201	Performing Culture	3	–
ENGL 101,102	Composition I *and* Composition II	3	3
SPCM 101	Introduction to Oral Communication	3	–
Select	electives	–	3
		15	15

Second Year		Fall	Spring
Select	Science[2]	–	4
Select	Fine Arts[1]	3	–
Select	Humanities[1]	3	–
Select	Mathematics[1]	–	3
Select	Human Health[1]	–	2
*SPCM 221	Advanced Public Speaking	3	–
*SPCM 230	Introduction to Communication Theory	3	–
*SPCM 262	Introduction to Oral Communication II	–	3
Select	electives	3	3
		15	15

* Departmental requirements.
1 See "University Core Curriculum," p. 39.
2 SIUC College of Liberal Arts requires one science course with lab in addition to the university core curriculum science requirement.

Secondary school and community college students are encouraged to take part in as much speech activity work as possible before entering SIUC. Those students interested in 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

The Department of Speech Communication 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 their chosen specialization.

Representative First Job Titles: technical writer, visitors' guide, communications specialist, advertising agent, editor, public relations officer, publications staff, personnel interviewer, publicity staff, newspaper reporter, radio announcer, speech writer, manufacturer's representative, salesperson, newscaster, television announcer.

Speech Communication
(Organizational Communication
(Bachelor of Science)

Wanda Oakey, Advisement

1229 Faner Hall

The bachelor of science degree program in speech communication with an organizational communication specialization meets the objectives of students interested in organizational communications. Topics covered include organizational climate and culture, organizational networks, information flow, communication audit methods, impact of new communication technology, superior-subordinate interaction, compliance-gaining, and conflict resolution.

Many careers demand the ability to communicate well. The Department of Speech Communication offers a wide range of courses in the history, theory, and successful use of oral communication. The department also sponsors co-curricular activities in debate, forensics, performance studies, creative drama, and public relations. Students on the debate and forensics teams compete regularly and are ranked among the best in national competition. Creative drama students take performances to schools throughout Southern Illinois. Public relations students at SIUC have consistently won national recognition for their projects.

NOTE: The following is a suggested curriculum. For more specific information consult the *1996-97 Undergraduate Catalog.*

First Year		Fall	Spring
Select	Science[1]	3	3
Select	Social Science[1]	3	3
Select	Humanities[1]	–	3
SPCM 201	Performing Culture	3	–
ENGL 101,102	Composition I *and* Composition II	3	3
SPCM 101	Introduction to Oral Communication	3	–
Select	electives	–	3
		15	15

Second Year		Fall	Spring
Select	Science[2]	–	3
Select	Fine Arts[1]	3	–
Select	Humanities[1]	3	–
Select	Mathematics[1]	–	3
Select	Human Health[1]	–	2
*SPCM 221	Advanced Public Speaking	3	–
*SPCM 230	Introduction to Communication Theory	3	–
*SPCM 261	Small Group Communication	–	3
Select	electives	3	3
		15	14

* Departmental requirements.

1 See "University Core Curriculum," p. 39.

2 SIUC College of Liberal Arts requires one science course with lab in addition to the university core curriculum science requirement.

Secondary school and community college students are encouraged to take part in as much speech activity as possible before entering SIUC. Those students interested in 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

The Department of Speech Communication 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 their chosen specializations.

Representative First Job Titles: technical writer, visitors' guide, communications specialist, advertising agent, editor, public relations officer, publications staff, personnel interviewer, publicity staff, newspaper reporter, radio announcer, speech writer, manufacturer's representative, salesperson, newscaster, television announcer.

Speech Communication

(Performance Studies)
College of Liberal Arts
(Bachelor of Science)

Wanda Oakey , Advisement
Telephone 618 453-3388
1229 Faner Hall

The bachelor of arts degree program in speech communication with a specialization in performance studies meets the objectives of students interested in theatrical and everyday performance and the oral interpretation of literature, and in careers in performance, writing as performance, and public presentation in forums from the arts to business.

Many careers demand the ability to communicate well. The Department of Speech Communication offers a wide range of courses in the history, theory, and successful use of communication. The department also sponsors co-curricular activities in debate, forensics, performance studies, creative drama, and public relations. Students on the debate and forensics teams compete regularly and are ranked among the best in national competition. Creative drama students take performances to schools throughout Southern Illinois. Public relations students at SIUC have consistently won national recognition for their projects.

NOTE: The following is a suggested curriculum. For more specific information consult the *1996-97 Undergraduate Catalog.*

First Year		Fall	Spring
Select	Science[1]	3	3
Select	Social Science[1]	3	3
Select	Humanities[1]	3	–
*SPCM 201	Performing Culture	–	3
ENGL 101,102	Composition I *and* Composition II	3	3
SPCM 101	Introduction to Oral Communication	–	3
Select	elective	3	–
		15	15

Second Year		Fall	Spring
Select	Science[2]	3	–
Select	Fine Arts[1]	3	–
Select	Humanities[1]	–	3
Select	Mathematics[1]	–	3
Select	Human Health[1]	–	2
*SPCM 221	Advanced Public Speaking	3	–
*SPCM 230	Introduction to Communication Theory	–	3
*SPCM 262	Introduction to Oral Communication II	3	–
Select	electives	3	3
		15	14

* Departmental requirements.

1 See "University Core Curriculum," p. 39.

2 SIUC College of Liberal Arts requires one science course with lab in addition to the university core curriculum science requirement.

Secondary school and community college students are encouraged to take part in as much speech activity as possible before entering SIUC. Those planning to specialize in performance studies are encouraged to take as many literature courses as possible. Students interested in other aspects of oral communication should take elective work in high school or at a community college in the social science areas.

Speech Communication As A Major

The Department of Speech Communication 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 their chosen specializations.

Representative First Job Titles: actor, model, human resources trainer, visitors' guide, communications specialist, personnel interviewer, publicity staff, radio announcer, speech writer, manufacturer's representative, salesperson, television announcer.

Speech Communication
(Persuasive Communication)
College of Liberal Arts
(Bachelor of Science)

Wanda Oakey, Advisement
Telephone 618 453-3388
1229 Faner Hall

The bachelor of science degree program in speech communication with a persuasive communication specialization meets the objectives of students interested in public and political discourse, argumentation, rhetoric, social influence, and media, and careers in law, politics, sales, corporate and public advocacy, and selected areas in business and mass media.

Many careers demand the ability to communicate well. The Department of Speech Communication offers a wide range of courses in the history, theory, and successful use of communication. The department also sponsors co-curricular activities in debate, forensics, performance studies, creative drama, and public relations. Students on the debate and forensics teams compete regularly and are ranked among the best in national competition. Creative drama students take performances to schools throughout Southern Illinois. Public relations students at SIUC have consistently won national recognition for their projects.

NOTE: The following is a suggested curriculum. For more specific information consult the *1996-97 Undergraduate Catalog.*

First Year		Fall	Spring
Select	Science[1]	3	3
Select	Social Science[1]	3	3
Select	Humanities[1]	–	3
SPCM 201	Performing Culture	3	–
ENGL 101,102	Composition I *and* Composition II	3	3
SPCM 101	Introduction to Oral Communication	3	–
Select	elective	–	3
		15	15

Second Year		Fall	Spring
Select	Science[2]	–	3
Select	Fine Arts[1]	3	–
Select	Humanities[1]	3	–
Select	Mathematics[1]	–	3
Select	Human Health[1]	–	2
*SPCM 221	Advanced Public Speaking	3	–
*SPCM 230	Introduction to Communication Theory	3	–
*SPCM 261	Small Group Communication	–	3
Select	electives	3	3
		15	14

* Departmental requirements.
1 See "University Core Curriculum," p. 39.
2 SIUC College of Liberal Arts requires one science course with lab in addition to the university core curriculum science requirement.

Secondary school and community college students are encouraged to take part in as much speech activity as possible before entering SIUC. Students interested in aspects of oral communication should take elective work in the social sciences in high school or at a community college.

Speech Communication As A Major

The Department of Speech Communication 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 their chosen specializations.

Representative First Job Titles: technical writer, visitors' guide, communications specialist, advertising agent, editor, 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 Liberal Arts
(Bachelor of Science)

Wanda Oakey, Advisement
Telephone 618 453-3388
1229 Faner Hall

The bachelor of science degree program in speech communication with a public relations specialization meets the objectives of students considering positions in such areas as public relations, advertising, marketing, government relations, and sales.

Many careers demand the ability to communicate well. The Department of Speech Communication offers a wide range of courses in the history, theory, and successful use of oral communication. The department also sponsors co-curricular activities in debate, forensics, performance studies, creative drama, and public relations. Students on the debate and forensics teams compete regularly and are ranked among the best in national competition. Creative drama students take performances to schools throughout Southern Illinois. Public relations students at SIUC have consistently won national recognition for their projects.

The Pyramid Public Relations Agency, run under faculty supervision by students in the program, gives students practical experience in applying what they have learned. Membership in the Raymond D. Wiley Chapter of the Public Relations Student Society of America provides opportunities for internships, field trips, job placement, involvement in on- and off-campus public relations projects, and association with professional practitioners. The department also encourages internships and practicums.

NOTE: The following is a suggested curriculum. For more specific information consult the *1996-97 Undergraduate Catalog.*

First Year		Fall	Spring
Select	Science[1]	3	3
POLS 114	Introduction to American Government and Politics	–	3
PSYC 102	Introduction to Psychology	3	–
Select	Humanities[1]	3	3
ENGL 101,102	Composition I *and* Composition II	3	3
SPCM 101	Introduction to Oral Communication	3	–
*SPCM 230	Introduction to Communication Theory	–	3
		15	15

Second Year		Fall	Spring
Select	Science[2]	4	–
Select	Fine Arts[1]	–	3
SPCM 201	Performing Culture	–	3
Select	Mathematics[1]	3	–
Select	Human Health[1]	2	–
*SPCM 221	Advanced Public Speaking	–	3
*SPCM 280	Business and Professional Communication	3	–
*SPCM 326	Persuasion	–	3
Select	electives	3	3
		15	15

* Departmental requirements.
1 See "University Core Curriculum," p. 39.
2 SIUC College of Liberal Arts requires one science course with lab in addition to the university core curriculum science requirement.

NOTE: Students must demonstrate proficiency in typing at least 30 words per minute.

Speech Communication As A Major

The Department of Speech Communication uses direct advisement of all new, transfer, and continuing students.

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.

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.

Theater

(Acting-Directing)
(Design-Technical)
College of Liberal Arts
(Bachelor of Arts)

College of Liberal Arts Advisement
Telephone 618 453-3388
1229 Faner Hall

The Department of Theater blends scholarship and practice into an academically based theater experience. The bachelor of arts degree program in theater meets the objectives of students preparing for careers 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 480, 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, such as children's theater and theater management, complement the program. The production schedule is extensive enough to allow students to design sets, lights, and costumes and to write, act, and direct for these productions. Seminars in dramaturgy and American theater, coordinated with ongoing research projects and visits of artists-in-residence, enhance the total experience.

NOTE: The following is a suggested curriculum. For more specific information consult the *1996-97 Undergraduate Catalog.*

First Year		Fall	Spring
Select	Science[1]	3	–
Select	Social Science[1]	–	3
Select	Humanities[1]	–	3
THEA 101	Introduction to Theater	3	–
ENGL 101,102	Composition I *and* Composition II	3	3
Select	Mathematics	–	3
SPCM 101	Introduction to Oral Communication	3	–
THEA 218a	Stagecraft: Scenery	3	–
THEA 217	Beginning Acting	–	3
		15	15

Second Year		Fall	Spring
Select	Science[1]	3	–
Select	Social Science[1]	3	–
Select	Humanities[1]	–	3
Select	Integrative Studies1	3	3
Select	Human Health[1]	2	–
THEA 218b,c	Stagecraft: Lighting, Costumes	3	–
THEA 300	Production	1	1
THEA 311A	Play Analysis	–	3
THEA 203	Introduction to Voice and Movement	–	3
THEA 205	Makeup	–	2
		15	15

[1] See "University Core Curriculum," p. 39.

Theater As A Major

The Department of Theater also offers the M.F.A. degree with specializations in design and playwriting.

No minor is required.

Doctoral studies in theater are sponsored by the Department of Speech Communication.

During the academic year, four productions—three plays, one opera or musical—are performed in the McLeod Theater, and numerous original one-act plays and other shows are produced in the Laboratory Theater.

Each summer a resident stock company produces two plays and a musical in the McLeod Theater, and members of the Playwrights' Workshop produce 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—Computer Aided Machining)
College of Technical Careers
(Associate in Applied Science)

Philip Tregoning
Program Coordinator
Telephone 618 453-4024
Carterville Campus

The associate in applied science degree program in tool and manufacturing technology with a machine tool—computer aided manufacturing specialization meets the objectives of students preparing for work as tool and machining technicians, who function in the industrial area between mechanical and manufacturing Engineering and the skilled craftsperson. Technicians have the background required to work with Engineers in research, development, and testing, plus the skills in metal cutting and fabrication that give them the abilities of a tool maker, machinist, welder, or tool designer. Technicians may run tests on experimental equipment and material, alter and fabricate pilot models of equipment, build jigs, fixtures, and dies, or operate and supervise operation of machine tools and fabricating equipment.

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. 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, and compound dies, and to produce specialized obsolete parts. Hands-on experience with numerically controlled machines, electrical discharge machines, computer aided mills, and computer aided lathes is a vital part of the training. In addition, students learn to read blueprints, select material, lay out and plan machining operations, use precision measuring tools, do basic heat treat operations on tool steel, and use the machinery handbook. University core curriculum courses such as mathematics, physics, speech, and English are also required. In this two-year program, students receive approximately 1250 hours of practice in laboratories equipped with machines used in industry.

First Year		Fall	Spring
Select	Social Science[1]	–	3
ENGL 101	Composition I	–	3
IMS 125	Technical Mathematics with Application	4	–
TT 101	Basic Tool and Manufacturing Lab	6	–
TT 102	Milling Machine and Grinding Lab	–	6
TT 125	Introduction to Machine Tools	3	–
TT 126	Machinability of Metals, Milling, and Abrasive Machining	–	3
TT 185	Technical Sketching	3	–
TT 186	Computer Aided Design Drafting	–	3
		16	18

Second Year		Fall	Spring
SPCM 101	Introduction to Oral Communication	–	3
IMS 126	Technical Physics	4	–
TT 208	CNC Programming	3	–
TT 210	Tool and Die and Electrical Discharge Machining	7	–
TT 211	Advanced CNC and Tool and Die	–	7
TT 220	Tool and Die, EDM and Inspection Practices	3	–
TT 221	CAM and Production Machining	–	3
TT 225	Principles and Processes in Modern Manufacturing	–	2
TT 275	Ferrous Metallurgy	2	–
TT 276	Tool Steel Metallurgy	1	2
		20	17

[1] See "University Core Curriculum," p. 39.
For more information consult the *1996-97 Undergraduate Catalog.*
Students should expect to spend about $150 for tools, instruments, and supplies.

Tool And Manufacturing Technology As A Major

Students in this program 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 (computer aided machining), metal fabrication and processes, and tool design.

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 may add bachelor's degree programs to their associate degree specialization. These include advanced technical studies in the College of Technical Careers, industrial technology, and workforce education and development.

Representative First Job Titles: tool maker, laboratory technician, mold maker, tool designer, instrument maker, machine builder, welder, die maker, inspector, computer numeric control programmer, shop foreman, process planner, model maker, production supervisor, testing technician, shop owner, fabrication technician, machinist, tool technician, and material testing technician, manufacturing engineer, tool liaison.

Tool and Manufacturing Technology

(Metal Fabrication and Processes)
College of Technical Careers
(Associate in Applied Science)

Philip Tregoning
Program Coordinator
Telephone 618 453-4024
Carterville Campus

The associate in applied science degree program in tool and manufacturing technology with a metal fabrication and processes specialization meets the objectives of students preparing for work as tool and manufacturing technicians, who function in the industrial area between mechanical and manufacturing engineering and the skilled craftsperson. Technicians have the background required to work with engineers in research, development, and testing, plus the skills in metal cutting and fabrication that give them the abilities of a tool maker, machinist, welder, or tool designer. Technicians may run tests on experimental equipment and material, alter and fabricate pilot models of equipment, build jigs, fixtures, and dies, or operate and supervise operation of machine tools and fabricating equipment. The specialization combines machine shop training with training in welding and fabrication. The machine shop classes will equip students 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 students to develop skills in many industrial welding and cutting processes, including oxyacetylene, shielded metal arc, gas metal arc, gas tungsten arc, cored wire, and submerged arc welding, oxyacetylene cutting, air carbon arc cutting, and plasma arc cutting. In addition to welding and machining skills, students learn to read blueprints, select materials, do layout and cost estimating, use precision and nonprecision tools, do basic heat treat operations, and perform destructive and nondestructive weld tests. University core curriculum courses such as mathematics, physics, speech, and English are also required. In this two-year program, students receive approximately 1250 hours of practice in laboratories equipped with machine tools, welding equipment, and testing equipment used in industry.

First Year		Fall	Spring
ENGL 101	Composition I	–	3
IMS 125	Technical Mathematics with Application	–	4
TT 101	Basic Tool and Manufacturing Lab	6	–
TT 102	Milling Machine and Grinding Lab	–	6
TT 125	Introduction to Machine Tools	3	–
TT 126	Machinability of Metals, Milling, and Machining	–	3
TT 180, 181	Welding I and II	3	3
TT 185	Technical Sketching	3	–
		15	19

Second Year		Fall	Spring
Select	Social Science[1]	–	3
SPCM 101	Introduction to Oral Communication	–	3
IMS 126	Technical Physics	4	–
TT 182	Welding III	3	–
TT 183	Welding Blueprint Reading	2	–
TT 225	Principles and Processes in Modern Manufacturing	–	2
TT 275, 276	Ferrous and Tool Steel Metallurgy	2	2
TT 310	Welder Qualification	6	6
		17	16

[1] See "University Core Curriculum," p. 39.

For more information consult the *1996-97 Undergraduate Catalog.*

Students should expect to spend about $150 for tools, instruments, and supplies.

Tool And Manufacturing Technology As A Major

Students in the program 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 (computer aided machining), metal fabrication and processes, and tool design.

The curriculum is designed to accept both beginning freshmen and transfer students. A student chapter of the Society of Manufacturing Engineers gives its members an early start in the development of their careers.

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 may add bachelor's degree programs to their associate degree specialization. These include advanced technical studies in the College of Technical Careers, industrial technology, and workforce education and development.

Representative First Job Titles: laboratory technician, tool designer, instrument maker, machine builder, welder, die maker, inspector, computer numeric control programmer, shop foreman, process planner, model maker, production supervisor, testing technician, shop owner, fabrication technician, machinist, qualified pipe welder, tool technician, and material testing technician.

Tool And Manufacturing Technology

(Tool Design)
College of Technical Careers
(Associate in Applied Science)

Philip Tregoning
Program Coordinator
Telephone 618 453-4024
Carterville Campus

The associate in applied science degree program in tool and manufacturing technology with a tool design specialization meets the objectives of students preparing to work as tool and manufacturing technicians who function in the industrial area between mechanical and manufacturing engineering and the skilled craftsperson. Technicians have the technical background required to work with engineers in research, development and testing, plus the skills in metal cutting and fabrication that give them the abilities of a tool maker, machinist, welder, or tool designer. Technicians may run tests on experimental equipment and material, alter and fabricate pilot models of equipment, build jigs, fixtures, and dies, or operate and supervise operation of machine tools and fabricating equipment.

Students are equipped with basic machining and welding skills so they will be better able to design tools, dies, jigs, and fixtures that incorporate the most practical and economical production processes. They also study product drafting and design. Students learn to be accurate and detailed in their work; to become familiar with applications of American National Standard Institute drawing standards; and to become competent in detailing in tool, die, and mold design. Students will also receive coursework in computer-aided design. University core curriculum courses such as mathematics, physics, speech, and English are also required. In this two-year program, students receive approximately 1250 hours of practice in laboratories equipped with machines tools, welding equipment, drafting equipment and computer aided design equipment.

First Year		Fall	Spring
Select	Social Science[1]	–	3
ENGL 101	Composition	–	3
IMS 125	Technical Mathematics with Application	4	–
TT 101	Basic Tool and Manufacturing Lab	6	–
TT 102	Milling Machine and Grinding Lab	–	6
TT 125	Introduction to Machine Tools	3	–
TT 126	Machinability of Metals, Milling, and Abrasive Machining	–	3
TT 180	Welding I	–	3
TT 185	Technical Sketching	3	–
TT 186	Computer Aided Design Drafting	–	3
		16	21

Second Year		Fall	Spring
SPCM 101	Introduction to Oral Communication	–	3
IMS 126	Technical Physics	4	–
TT 181	Welding II *(recommended)*	3	–
TT 208	CNC Programming	4	–
TT 225	Principles and Processes in Modern Manufacturing	–	2
TT 230	Tool Design I	7	–
TT 231	Tool Design II *(Recommended)*	–	7
TT 240	Jig, Fixture, Gauge Design Theory	–	–
TT 241	Die Design Theory *(recommended)*	–	3
TT 275	Ferrous Metallurgy	2	–
TT 276	Tool Steel Metallurgy	–	2
		20	17

1 See "University Core Curriculum," p. 39.

For more information consult the *1996-97 Undergraduate Catalog.*

Students should expect to spend about $150 for tools, instruments, and supplies.

Tool And Manufacturing Technology As A Major

The 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 (computer aided machining), metal fabrication and processes, and tool design.

The curriculum is designed to accept both beginning freshmen and transfer students. A student chapter of the Society of Manufacturing Engineers gives its members an early start in the development of their careers.

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 may add bachelor's degree programs to the associate degree specialization. These include advanced technical studies in the College of Technical Careers, industrial technology, and workforce education and development.

Representative First Job Titles: laboratory technician, tool designer, instrument maker, machine designer, die designer, inspector, computer numeric control programmer, numeric control programmer, shop foreman, process planner, model maker, production supervisor testing technician, shop owner, fabrication technician, machinist, qualified pipe welder, tool technician, and material testing technician.

University Studies

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

University Studies
Baccalaureate Program
Telephone 618 453-3388
1229 Faner

The bachelor of arts and bachelor of science degree programs in university studies meet the objectives of students interested in designing multidisciplinary, interdisciplinary programs of study.

Since the university studies program does not have an established curriculum, students use the resources of the entire University. For example, students interested in arts management might combine fine arts courses with courses in or related to business, thereby gaining the necessary skills to manage a civic center or theater. Students planning to attend law school might elect to combine political science, philosophy, history, and business courses in preparation for the study of law. Other students choose a broad range of courses to complete the degree program.

A general model of a curriculum for a degree in University Studies might be:

University core curriculum	41 sem. hrs.
Senior-level courses (300–400)	40 sem. hrs.
Foreign language	8 sem. hrs. (for the B.A. only)
English composition	3 sem. hrs.
Writing-intensive course	3 sem. hrs.
Science with lab	3 sem. hrs.
Other courses at any level (30 for the B.S.)	22 sem. hrs.
TOTAL	120 sem. hrs.

After admission to the University, as undecided students or in a degree program, students interested in the university studies program should arrange an interview with a College of Liberal Arts adviser to determine eligibility. Students who meet the criteria can then be admitted to the program

The Major in University Studies

All university studies students are required to pass one composition course in addition to the university core curriculum requirements. The bachelor of arts degree also requires completion of one year of a foreign language.

To be admitted to the program, students must have completed at least 24 but no more than 90 semester hours with a 2.25 grade point average (4.0 scale) in all college work taken.

To complete the program, students must complete 40 semester hours at the senior level (300–400) with a 2.0 grade point average (4.0 scale) in those courses.

Students cannot exceed the program's prescribed limits on distribution of courses, either at entry or while in the program.

No more than 20 semester hours, in addition to university core curriculum requirements, may be taken in any department or school in a college.

No more than 40 semester hours, in addition to university core curriculum requirements, may be taken in any SIUC college or in its equivalent in an institution from which the student has transferred.

There is one exception to these limits: in the College of Liberal Arts, as many as 27 semester hours each may be taken from the social sciences and humanities areas.

Workforce Education and Development

Administrative Services Training Concentration
College of Education
(Bachelor of Science)

Jacquelyn Bailey
Chief Academic Adviser
Telephone 618 453-2354
135 Wham Education Building

Dr. Marcia Anderson-Yates
Coordinator
Telephone 618 453-3321
212 Pulliam Hall

The administrative services training concentration is designed to prepare graduates who can plan and design user-compatible office systems, train users, and manage changes necessary for revitalizing existing course work, and natural linkages with the business education program, in a growing field of employment.

Added to the students' professional and technical training are university core curriculum in science, social science, humanities, and communications, and professional education courses. Students must complete work experiences and internships tailored to their own career goals.

The specialization is *not* a certification program for teaching at the secondary level.

NOTE: The following is a suggested curriculum. For more specific information consult the *1996-97 Undergraduate Catalog.*

First Year		Fall	Spring
Select	Science[1]	–	3
PSYC 102	Introduction to Psychology	3	–
POLS 114	Introduction to American Government and Politics	–	3
Select	Humanities[1]	3	3
ENGL 101,102	Composition I *and* Composition II	3	3
MATH 110/113	Non-Technical Calculus or Introduction to Contemporary Mathematics	3	–
SPCM 101	Introduction to Oral Communication	–	3
Select	Human Health[1]	2	–
		14	15

Second Year		Fall	Spring
Select	Science[1]	3	–
ECON 113	Economics of Contemporary Social Issues	–	3
Select	Fine Arts[1]	3	–
ACCT 210/220	Accounting I *or* Accounting Principles and Control	3	–
Select	Integrative Studies[1]	3	3
MGT 170/304	Introduction to Business *or* Introduction to Management	3	–
WED 302	Communication in Business	–	3
WED 306	Introduction to Computers and Information Systems	–	3
Select	electives	–	3
		15	15

[1] See "University Core Curriculum," p. 39.

Administrative Services Training as a Concentration

Special note to community college personnel: The specialization in administrative service training allows transfer students who have completed a two-year associate in applied science (A.A.S.) degree program to qualify to apply for our Capstone Option, in which students make a contract with SIUC and the Department of Workforce Education and Development that will give them maximum credit for transfer work and guarantee their graduation with the completion of no more than 60 additional hours of work. Credit hours may also be awarded for work experience and for other post-secondary vocational training and course work. Students' Capstone Option applications must be on file by the end of their first semester at SIUC. Additional qualification requirements are detailed under "Capstone Option," p. 34.

Approximately a third of your course work will be devoted to a university core curriculum required of all students pursuing an undergraduate degree. The remainder of your program will concentrate on the specific requirements of your specialization which include course work in business, office systems and specialties, computer information processing, and training and development.

Workforce Education and Development

Business Education Specialization
(Teacher Certification)
College of Education
(Bachelor of Science)

Jacquelyn Bailey
Chief Academic Adviser
Telephone 618 453-2354
135 Wham Education Building

Dr. Marcia Anderson-Yates
Coordinator
Telephone 618 453-3321
212 Pulliam Hall

The bachelor of science degree program in workforce education and development with a business education specialization leading to teacher certification meets the objectives of students preparing to teach office education, accounting, data processing, general business/consumer education, and marketing.

NOTE: The following is a suggested curriculum. For more specific information consult the *1996-97 Undergraduate Catalog.*

First Year		Fall	Spring
Select	Science[1]	–	3/4
PSYC 102	Introduction to Psychology	3	–
POLS 114	Introduction to American Government and Politics	–	3
Select	Humanities[1]	3	–
ENGL 101,102	Composition I *and* Composition II	3	3
Select	Mathematics[1]	3	–
SPCM 101	Introduction to Oral Communication	–	3
Select	Human Health[1]	2	–
		14	12/13

Second Year		Fall	Spring
Select	Science[1]	–	3/4
Select	Fine Arts[1]	3	–
HIST 110	Twentieth-Century America[1]	–	3
ENGL 121/204	The Western Literary Tradition *or* Literary Perspective on the Modern World	3	–
ACCT 210/220	Accounting Principles and Control *or* Accounting I	3	–
ECON 241	Introduction to Macroeconomics	3	–
WED 302	Communication in Business[2]	–	3
WED 306	Introduction to Computers and Information Systems[2]	–	3
Select	Interdisciplinary Studies[3]	–	3
Select	Multicultural Studies[1]	3	–
		15	15/16

[1] See "University Core Curriculum," p. 39.
[2] A grade of *C* or better is required in all business and education courses.
[3] Choose from FL 313I, HIST 304I, ENGL 308I, AD 310I, FL 310I.

Business Education As A Major

You can prepare to become certified to teach grades 6–12 through this specialization with at least one, preferably two endorsements, in these teaching areas: accounting, basic business, business computer programming/systems, information processing (secretarial), and marketing. Through this specialization you will also be qualified for instructional positions in career colleges, government agencies, and business and industry programs.

University core curriculum courses required for teacher certification include PSYC 102, Introduction to Psychology; POLS 114, Introduction to American Government and Politics; HIST 110, Twentieth Century America; ENGL 101 and 102, Composition I and II; SPCM 101, Introduction to Oral Communication; HED 101, Foundations of Human Health or PE 101, Current Concepts of Physical Fitness; one approved English literature course; and one physical and one biological science course, one of which must include a laboratory. At least one three-semester-hour course must be taken in non-Western or Third World cultures.

Major Core Requirements: Accounting 210 or 220, MGMT 170 or 304, FIN 270 or 280, Office Systems and Specialties 111, Workforce Education and Development 302, 306, and 310. Courses for preparing for one endorsement, preferably two endorsements, are also required.

Workforce Education and Development

Education, Training and Development Specialization
College of Education
(Bachelor of Science)

Jacquelyn Bailey
Chief Academic Adviser
Teacher Education Services
Telephone 618 453-2354
212 Pulliam Hall

Dr. Richard Bortz
Telephone 618 453-3321
146 Wham Education Building

The bachelor of science degree program in workforce education and development with an education, training and development specialization meets the objectives of technically-trained students for training and development positions in education, business, industry, labor, government, and the military.

Corporations spend billions of dollars each year to train employees and develop their management staffs. Non-business organizations, charitable organizations, schools, and universities are rapidly recognizing the need for trainers. Graduates of our programs have been employed by public and private organizations to establish training programs for vocational, technical, and professional staff.

Added to the students' professional and technical training are university core curriculum in science, social science, humanities, and communications, and professional education courses. Students must complete work experiences and internships tailored to their specific career goals.

This specialization is *not* a certification program for teaching at the secondary level.

NOTE: The following is a suggested curriculum. For more specific information consult the *1996-97 Undergraduate Catalog.*

First Year		Fall	Spring
Select	Science[1]	3	3
Select	Social Science[1]	3	3
Select	Fine Arts[1]	–	3
Select	Humanities[1]	3	3
ENGL 101,102	Composition I *and* Composition II	3	3
Select	Human Health[1]	2	–
		14	15

Second Year		Fall	Spring
Select	Integrative Studies[1]	3	3
MATH 110/113	Non-Technical Calculus *or* Introduction to Contemporary Mathematics	–	3
SPCM 101	Introduction to Oral Communication	3	–
EPSY 307	Educational Psychology	3	–
Select	electives[1]	3	6
		12	12

[1] See "University Core Curriculum," p. 39.

Special Note to Community College Personnel: Transfer students who have completed a two-year associate in applied science (A.A.S.) degree program may qualify to apply for our Capstone Option, in which students make a contract with SIUC and the Department of Workforce Education and Development that will give them maximum credit for transfer work and guarantee their graduation with the completion of no more than 60 additional semester hours of work. Credit hours may also be awarded for work experience and for other post-secondary vocational training and coursework. Students' Capstone Option applications must be on file by the end of their first semester at SIUC. Additional qualification requirements are detailed under "Capstone Option," p. 34.

Workforce Education and Development

Home Economics Education Specialization
(Educational Services)
College of Education
(Bachelor of Science)

Jacquelyn Bailey
Chief Academic Adviser
Teacher Education Services
Telephone 618 453-2354
135 Wham Education Building

Phyllis Bubnas, Coordinator
Telephone 618 453-3321
131 Baptist Student Center

The bachelor of science degree program in workforce education and development with a home economics education specialization in educational services meets the objectives of students preparing for positions in agencies and businesses that develop informational materials, demonstrate products, coordinate conferences, and work with individual customers or clients.

Home economics today is concerned with human development, parenting, interpersonal relations, values, resource management, nutrition, and consumerism. Home economists are found not only in kitchens, nutrition labs, the fashion industry, and small specialty boutiques, but also in business and government offices, in juvenile services and programs for abused children, in community health agencies, and in public and private organizations that work to improve the quality of life.

NOTE: The following is a suggested curriculum. For more specific information consult the *1996-97 Undergraduate Catalog.*

First Year		Fall	Spring
Select	Science[1]	3	3
Select	Introduction to American Government and Politics	–	3
Select	Humanities[1]	3	–
AD 101	Introduction to Art	3	–
ENGL 101,102	Composition I *and* Composition II	3	3
Select	Human Health[1]	–	2
Select	electives	–	3
		15	14

First Year		Fall	Spring
SOC 108	Introduction to Sociology	–	3
PSYC 102	Introduction to Psychology	3	3
MATH 110/113	Non-Technical Calculus or Introduction to Contemporary Mathematics	–	3
SPCM 101	Introduction to Oral Communication	3	–
CI 227	Marriage and Family Living	–	3
Select	Integrative Studies[1]	3	–
Select	electives	6	6
		15	15

[1] See "University Core Curriculum," p. 39.

Home Economics Education As A Major

Graduates of this specialization move into business-related and communication careers that combine a knowledge of home economics with teaching skills. They may work in product development kitchens and laboratories of food companies, in consumer information offices, and in advertising or publicity departments for the promotion of products; as writers and educators of educational materials or as freelance consultants.

Teacher certification is not required for this specialization.

Minor not required. Foreign language not required.

Graduate degrees available.

Workforce Education and Development

Home Economics Education Specialization
(Teacher Certification)
College of Education
(Bachelor of Science)

Jacquelyn Bailey
Chief Academic Adviser
Telephone 618 453-2354
135 Wham Education Building

Phyllis Bubnas, Coordinator
Telephone 618 453-3321
131 Baptist Student Center

The bachelor of science degree program in workforce education and development with a home economics education specialization leading to teacher certification meets the objectives of students preparing for positions teaching home economics in school departments maintained according to the provisions of the federal vocational acts.

Home economics today is concerned with human development, parenting, interpersonal relations, values, resource management, nutrition, and consumerism. Home economists are found not only in kitchens, nutrition labs, the fashion industry, and small specialty boutiques, but also in business and government offices, in juvenile services and programs for abused children, in community health agencies, and in public and private organizations that work to improve the quality of life.

NOTE: The following is a suggested curriculum. For more specific information consult the *1996-97 Undergraduate Catalog.*

First Year		Fall	Spring
SOC 108	Introduction to Sociology	3	–
Select	Humanities[1,2]	3	–
ENGL 101,102	Composition I *and* Composition II	3	3
MATH 110/113	Non-Technical Calculus or Introduction to Contemporary Mathematics	3	–
SPCM 101	Introduction to Oral Communication	–	3
Select	Human Health[1,2]	–	2
Select	Fine Arts[1,2]	–	4
FN 215	Introduction to Nutrition	2	–
WED 338	Clothing Construction[3]	–	3
		14	15

Second Year		Fall	Spring
Select	Science[1,2]	3	3
POLS 114	Introduction to American Government and Politics	–	3
PSYC 102	Introduction to Psychology	3	–
ENGL 121/204	The Western Literary Tradition *or* Literary Perspective on the Modern World	–	3
CI 237	Early Child Development	–	3
CI 227	Marriage and Family Living	3	–
CEFM 340	Consumer Problems	–	3
FN 256	Science of Food	5	–
WED 320	Home Economics as a Profession[3]	1	–
		15	15

[1] University core curriculum courses required for teacher certification include PSYC 102, Introduction to Psychology; POLS 114, Introduction to American Government and Politics; HIST 110, Twentieth Century America; ENGL 101 and 102, Composition I and II; SPCM 101, Introduction to Oral Communication; HED 101, Foundations of Human Health or PE 101, Current Concepts of Physical Fitness; one approved English literature course; and one physical and one biological science course, one of which must include a laboratory. At least one three-semester-hour course must be taken in non-Western or Third World cultures.

[2] See "University Core Curriculum," p. 39.

[3] A grade of *C* or better is required in all business and education courses.

Home Economics Education As A Major

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.

A child development practicum in nursery school, a home management practicum, supervised student teaching in an area high school; and field experience with a home economics extension adviser are available.

Minor not required. Foreign language not required.

Graduate degrees available.

Workforce Education and Development

Vocational Teacher Development Specialization
College of Education
(Bachelor of Science)

Jacquelyn Bailey
Chief Academic Adviser
Telephone 618 453-2354
135 Wham Education Building

The vocational teacher development specialization is designed to take advantage of alternative methods of entering the secondary school teaching profession in various vocational education fields. This concentration is particularly timely given the Illinois State Board of Education recommendation encouraging "colleges and universities to develop programs for non-traditional students desiring to become teachers."

NOTE: The following is a suggested curriculum. For more specific information consult the *1996-97 Undergraduate Catalog.*

First Year		Fall	Spring
Select	Science[1]	3	3
Select	Social Science[1]	3	3
Select	Fine Arts[1]	–	3
Select	Humanities[1]	3	3
ENGL 101,102	Composition I *and* Composition II	3	3
Select	Human Health[1]	2	–
		14	15

Second Year		Fall	Spring
Select	Integrative Studies[1]	3	3
MATH 110/113	Non-Technical Calculus *or* Introduction to Contemporary Mathematics	–	3
SPCM 101	Introduction to Oral Communication	3	–
Select	electives[1]	6	6
		12	12

[1] See "University Core Curriculum," p. 39.

Vocational Teacher Development as a Specialization

Approximately a third of your course work will be devoted to a university core curriculum required of all students pursuing an undergraduate degree. The remainder of your program will concentrate on prescribed courses to complete your technical specialty.

Zoology[1]

College of Education
(Bachelor of Science)

Jacquelyn Bailey
Chief Academic Adviser
Telephone 618 453-2354
135 Wham Education Building

The bachelor of science degree program in zoology leading to teacher certification meets the objectives of students planning to teach in junior and senior high schools.

The study of zoology gives students knowledge about the biology and conservation of animals. A wide variety of courses is offered in the biologically rich and diverse environment of Southern Illinois. Excellent study facilities are housed in a life science building equipped with specialized laboratories, computer facilities, a research museum, and quarters for animals. The associated Cooperative Fisheries and Cooperative Wildlife Laboratories make important contributions to the education of many undergraduates. The 24 faculty members of the Department of Zoology represent a wide range of these professional zoological disciplines.

NOTE: The following is a suggested curriculum. For more specific information consult the *1996-97 Undergraduate Catalog.*

First Year		Fall	Spring
POLS 114	Introduction to American Government and Politics	–	3
ENGL 101,102	Composition I *and* Composition II	3	3
HED 101/PE 101	Foundations of Human Health *or* Current Concepts of Physical Fitness	–	2
CHEM 200, 201	Introduction to Chemical Principles *and* Lab[2]	–	4
MATH 111	Pre-Calculus	5	–
ZOOL 220a,b	Diversity of Animal Life	4	4
		13	16

Second Year		Fall	Spring
PSYC 102	Introduction to Psychology	3	–
HIST 110	Twentieth Century America	–	3
ENGL 121/204	The Western Literary Tradition *or* Literary Perspectives on the Modern World	3	–
Select	approved Non-Western or Third World culture course[3]	3	3
SPCM 101	Introduction to Oral Communication	–	3
PLB 200	General Botany[2]	–	4
BIOL 307	Principles of Ecology	3	–
ZOOL 300	Vertebrate Embryology	4	–
ZOOL or	Botany Electives	–	4
		16	17

[1] Should also have a minor in plant biology. See "College of Science," p. 49.
[2] Fulfills a university core curriculum science requirement.
[3] Refer to the SIUC Transfer Articulation Report or contact SIUC College of Education Advisement Center for course recommendations.

University core curriculum courses required for teacher certification include PSYC 102, Introduction to Psychology; POLS 114, Introduction to American Government and Politics; HIST 110, Twentieth Century America; ENGL 101 and 102, Composition I and II; SPCM 101, Introduction to Oral Communication; HED 101, Foundations of Human Health or PE 101, Current Concepts of Physical Fitness; one approved English literature course; and one physical and one biological science course, one of which must include a laboratory. At least one three-semester-hour course must be taken in non-Western or Third World cultures.

Zoology As A Major

Individualized attention by the department's faculty and graduate assistants introduces students to zoology's interesting specialties. Students in the zoology degree programs should consult with the director of undergraduate studies in zoology as soon as possible and arrange to develop an individualized program of courses in zoology and supporting areas (usually other biological sciences, mathematics, or chemistry) under the supervision of a faculty adviser.

Students pursuing a bachelor's degree in education are not required to complete a foreign language. Refer to the *1996-97 Undergraduate Catalog* for specific major requirements.

Graduate degree programs leading to M.A., M.S., and Ph.D. are available.

Zoology

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

Dr. DuWayne C. EngLert
Dir. of Undergraduate Studies
Telephone 618 536-2314
351 or 355F Life Science II

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.

Two degree programs are offered. The bachelor of science degree program in zoology meets the needs of students planning to pursue a graduate degree or enter a professional school in medicine, dentistry, or veterinary science. The bachelor of arts degree program will allow students to continue toward a graduate degree in zoology or related fields, although some may find it necessary to make up deficiencies in areas of the physical sciences.

The study of zoology gives students knowledge about the biology and conservation of animals. A wide variety of courses is offered in the biologically rich and diverse environment of Southern Illinois. Excellent study facilities are housed in a life science building equipped with specialized laboratories, computer facilities, a research museum, and quarters for animals. The associated Cooperative Fisheries and Cooperative Wildlife Laboratories make important contributions to the education of many undergraduates. The 24 faculty members of the Department of Zoology represent a wide range of these professional zoological disciplines.

NOTE: The following is a suggested curriculum. For more specific information consult the *1996-97 Undergraduate Catalog.*

First Year		Fall	Spring
BIOL 200a,b	Cell and Molecular Biology *and* Organismal *and* Ecological Biology[1]	4	4
Select	Social Science[2]	3	–
Select	Humanities[2]	–	3
ENGL 101,102	Composition I *and* Composition II	3	3
CHEM 200,201	Introduction to Chemical Principles *and* Lab [1,3]	4	–
CHEM 210, 211	General and Inorganic Chemistry *and* Lab	–	4
MATH 108	College Algebra	3	–
MATH 109	Trigonometry and Analytic Geometry	–	3
		17	17

Second Year		Fall	Spring
Select	Social Science[2]	3	–
Select	Humanities[2]	–	3
SPCM 101	Introduction to Oral Communication	3	–
Select	Human Health[2]	–	2
BIOL 307	Principles of Ecology[4]	–	3
Select	Foreign Language[4]	4	4
MATH 141/150	Short Course in Calculus for Biological Sciences *or* Calculus I[5]	4	–
ZOOL 220a,b	Diversity of Animal Life *(invertebrate and vertebrate)*	4	4
		18	16

1 Fulfills a university core curriculum science requirement.
2 See "University Core Curriculum," p. 39.
3 CHEM 200 and 201 will satisfy bachelor of arts degree requirements for basic chemistry and for some students, CHEM 140a,b will be adequate. For the bachelor of science degree, additional courses in chemistry or physics are required.
4 The College of Science requires one year of any foreign language, one year of math, six semester hours of physical sciences, and 6 semester hours of biological sciences.
5 Or may substitute Computer Science 200–3, 202–3, 210-3, Math 282–3, 283–3, Plant Biology 360–3, or Educational Psychology 402–3.

Zoology As A Major

The last two years of each individual's program concentrates on the completion of courses established for the requirements of the individual curriculum. Students in the zoology degree programs should consult with the director of undergraduate studies in zoology as soon as possible and arrange to develop an individualized program of courses in zoology and supporting areas (usually other biological sciences, mathematics, or chemistry) under the supervision of a faculty adviser.

Representative First Job Titles: zoologist, animal breeding technician, animal ecologist, animal husbandry supervisor, animal taxonomist, biological laboratory 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, environmental scientist, pollution control officer, fisheries scientist.

Index

Published by University Electronic Communications, Southern Illinois University at Carbondale.
Printed by Phillips Brothers Printers, Springfield, Illinois. 9503
3.5M 8/95


SUC
...where
good things
happen