

1959

1959-1960 Southern Illinois University Bulletin (General Information)

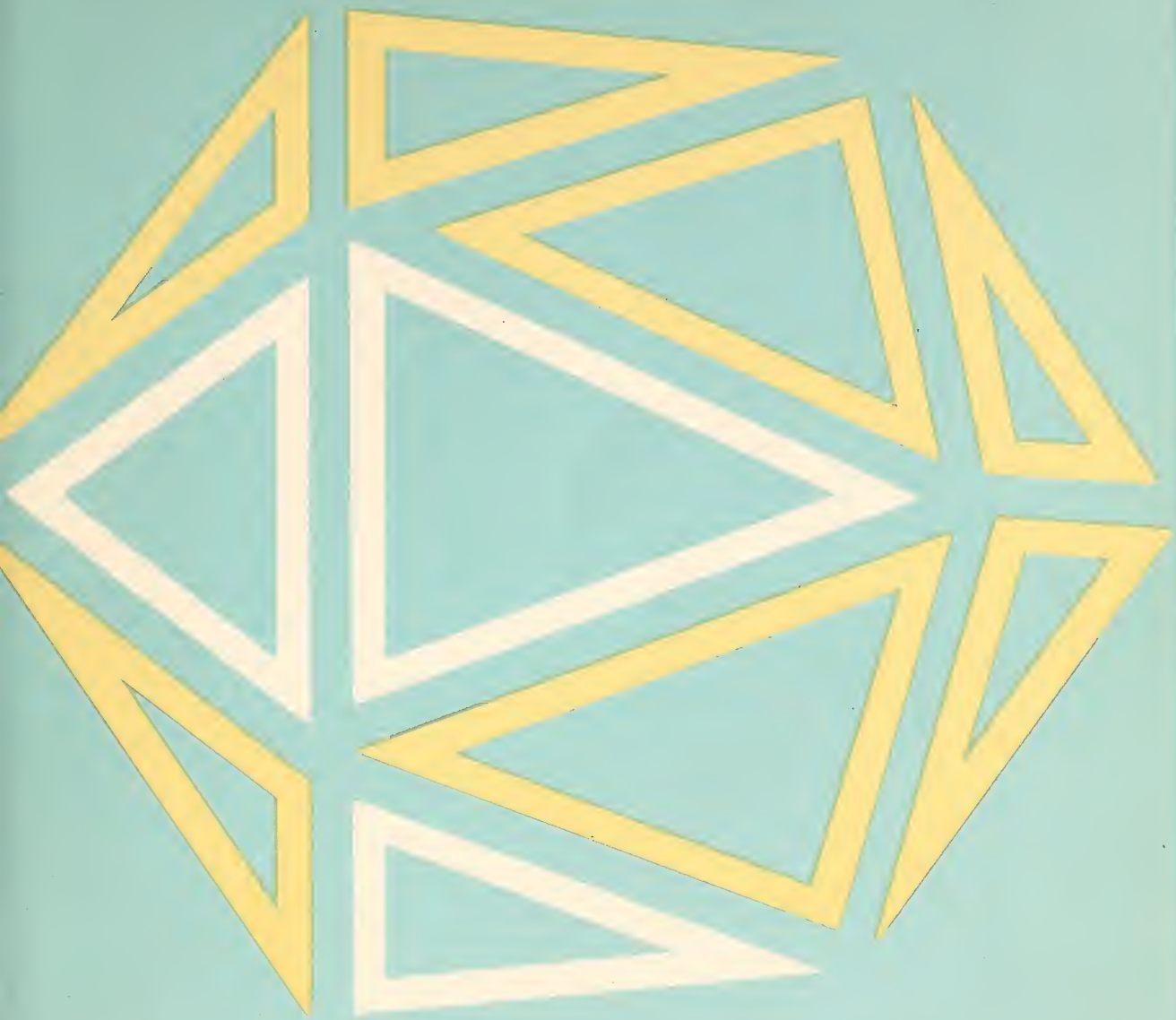
Southern Illinois University Carbondale

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1959·1960
General Information

Vol. I, No. I



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General Information

Announcements for 1959-1960



SOUTHERN ILLINOIS UNIVERSITY BULLETIN
New Series Volume 1 Number 1 April 6, 1959
Second-class privileges issued at Carbondale, Illinois.
Published by Southern Illinois University, monthly except April and May, when published semi-monthly.



Objectives of Southern Illinois University

TO EXALT BEAUTY

IN GOD,
IN NATURE,
AND IN ART;
TEACHING HOW TO LOVE THE BEST
BUT TO KEEP THE HUMAN TOUCH;

TO ADVANCE LEARNING

IN ALL LINES OF TRUTH
WHEREVER THEY MAY LEAD,
SHOWING HOW TO THINK
RATHER THAN WHAT TO THINK,
ASSISTING THE POWERS
OF THE MIND
IN THEIR SELF-DEVELOPMENT;

TO FORWARD IDEAS AND IDEALS

IN OUR DEMOCRACY,
INSPIRING RESPECT FOR OTHERS
AS FOR OURSELVES,
EVER PROMOTING FREEDOM
WITH RESPONSIBILITY;

TO BECOME A CENTER OF ORDER AND LIGHT

THAT KNOWLEDGE MAY LEAD
TO UNDERSTANDING
AND UNDERSTANDING
TO WISDOM.

Board of Trustees

	TERM EXPIRES
JOHN PAGE WHAM, <i>Chairman</i> , Centralia	1959
LINDELL W. STURGIS, <i>Vice-Chairman</i> , Metropolis	1959
MELVIN C. LOCKARD, <i>Secretary</i> , Mattoon	1959
STELLA COLLINS, West Frankfort	1961
KENNETH L. DAVIS, Harrisburg	1963
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MARTIN F. OEHMKE, East St. Louis	1961
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LOUISE MOREHOUSE, <i>Recorder</i>	

Officers of Instruction

DELYTE W. MORRIS, <i>President</i>
CHARLES D. TENNEY, <i>Vice-President for Instruction</i>
The Graduate School
WILLIS G. SWARTZ, <i>Dean</i>
College of Liberal Arts and Sciences
T. W. ABBOTT, <i>Dean</i>
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School of Agriculture
WENDELL KEEPPER, <i>Dean</i>
School of Business
H. J. REHN, <i>Dean</i>
School of Communications
C. HORTON TALLEY, <i>Dean</i>
School of Fine Arts
BURNETT SHRYOCK, <i>Dean</i>
School of Home Economics
EILEEN E. QUIGLEY, <i>Dean</i>
Division of University Extension
RAYMOND H. DEY, <i>Dean</i>
Division of Technical and Adult Education
ERNEST J. SIMON, <i>Dean</i>
Southwestern Illinois Residence Centers
HAROLD W. SEE, <i>Executive Dean</i>



Pictures of buildings on the Carbondale campus appear
in the following order:

Morris Library

Agriculture Building

Life Science Building

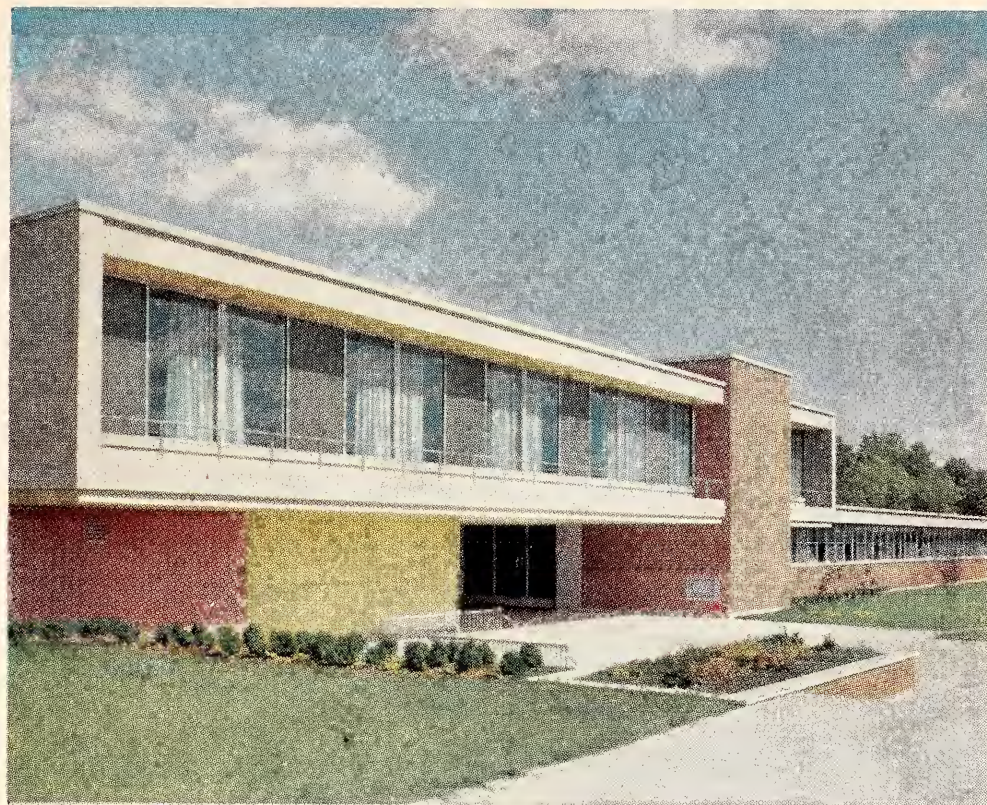
Bailey Hall

Table of Contents

UNIVERSITY CALENDAR FOR 1958-1959	x
UNIVERSITY CALENDAR FOR 1959-1960	xi
THE UNIVERSITY	3
Campuses	3
History	4
University Regulations	5
University Sessions	5
Class Periods	6
General Offices and Councils	6
INSTRUCTIONAL UNITS	13
The Graduate School	13
College of Liberal Arts and Sciences	14
College of Education	16
School of Agriculture	18
School of Business	21
School of Communications	22
School of Fine Arts	24
School of Home Economics	25
Department of Applied Science	27
Department of Industrial Education	27
Department of Nursing	29
Community Development Institute	29
Small Business Institute	30
Labor Institute	31
Latin American Institute	31
Rehabilitation Institute	33
Air Science	33
Division of University Extension	35
Division of Technical and Adult Education	36
Residence Centers	39
Summary of Available Majors	41
FACTS FOR THE POTENTIAL STUDENT	47
Admission to the University	47
Advisement and Registration	50
Changes and Withdrawals	52
Fees and Other Expenses	52
Freshman Convocations	55
Motor Vehicles	55

Contents — *continued*

Class Standing	55
Course Numbers	56
Unit of Credit	56
Academic Load	56
Grading System	57
Honors	58
Scholastic Probation	60
Degrees Granted	61
Requirements for the Bachelor's Degree	61
Extension and Correspondence Credit	67
University Credit for Military Experience	68
Elective Courses	68
UNIVERSITY SERVICES	81
University Libraries	81
Museum	85
Lectures, Entertainments, and Exhibits	86
University Health Service	88
Student Work Program	89
Office of Student Affairs	90
Co-operative Clinical Services	107
University Statistical Service	109
Printing Service	110
University Press	110
Office of the University Architect	110
Physical Plant	111
Area Services Office	111
AIR FORCE RESERVE OFFICERS TRAINING CORPS	117
The Required Basic Course	119
Voluntary Advanced Course	119
Air Force ROTC Awards	122
Air Science Courses	123
DEPARTMENT OF APPLIED SCIENCE	125
Applied Science Courses	126
DEPARTMENT OF INDUSTRIAL EDUCATION	131
Industrial Education Courses	133
DEPARTMENT OF NURSING	139
Nursing Courses	142
STATISTICS	145
INDEX	157



University Calendar, 1958-1959

SUMMER SESSION

Session Begins	Monday, June 16
Independence Day Holiday	Friday, July 4
Final Examinations	Wednesday–Thursday, August 6–7
Commencement	Friday, August 8

FALL QUARTER

New Student Week	Friday–Tuesday, September 19–23
Quarter Begins	Wednesday, September 24
Thanksgiving Recess	Wednesday, 12 noon–Monday, 8 A.M., November 26–December 1
Final Examinations	Monday–Saturday, December 15–20

WINTER QUARTER

Quarter Begins	Monday, January 5
Final Examinations	Monday–Saturday, March 16–21

SPRING QUARTER

Quarter Begins	Monday, March 30
Memorial Day Holiday	Saturday, May 30
Final Examinations	Wednesday–Tuesday, June 10–16
Commencement	Wednesday, June 17

Summer session classes will begin Tuesday, June 17. During a quarter, day classes will begin on the second day of the quarter. Evening classes (5:45 P.M. or later) will begin on the first day of the quarter.

University Calendar, 1959-1960

SUMMER SESSION

Session Begins	Monday, June 22
Independence Day Holiday	Friday, July 3
Final Examinations	Wednesday–Thursday, August 12–13
Commencement	Friday, August 14

FALL QUARTER

New Student Week	Friday–Tuesday, September 18–22
Quarter Begins	Wednesday, September 23
Thanksgiving Recess	Wednesday, 12 noon–Monday, 8 A.M., November 25–30
Final Examinations	Monday–Saturday, December 14–19

WINTER QUARTER

Quarter Begins	Monday, January 4
Final Examinations	Monday–Saturday, March 14–19

SPRING QUARTER

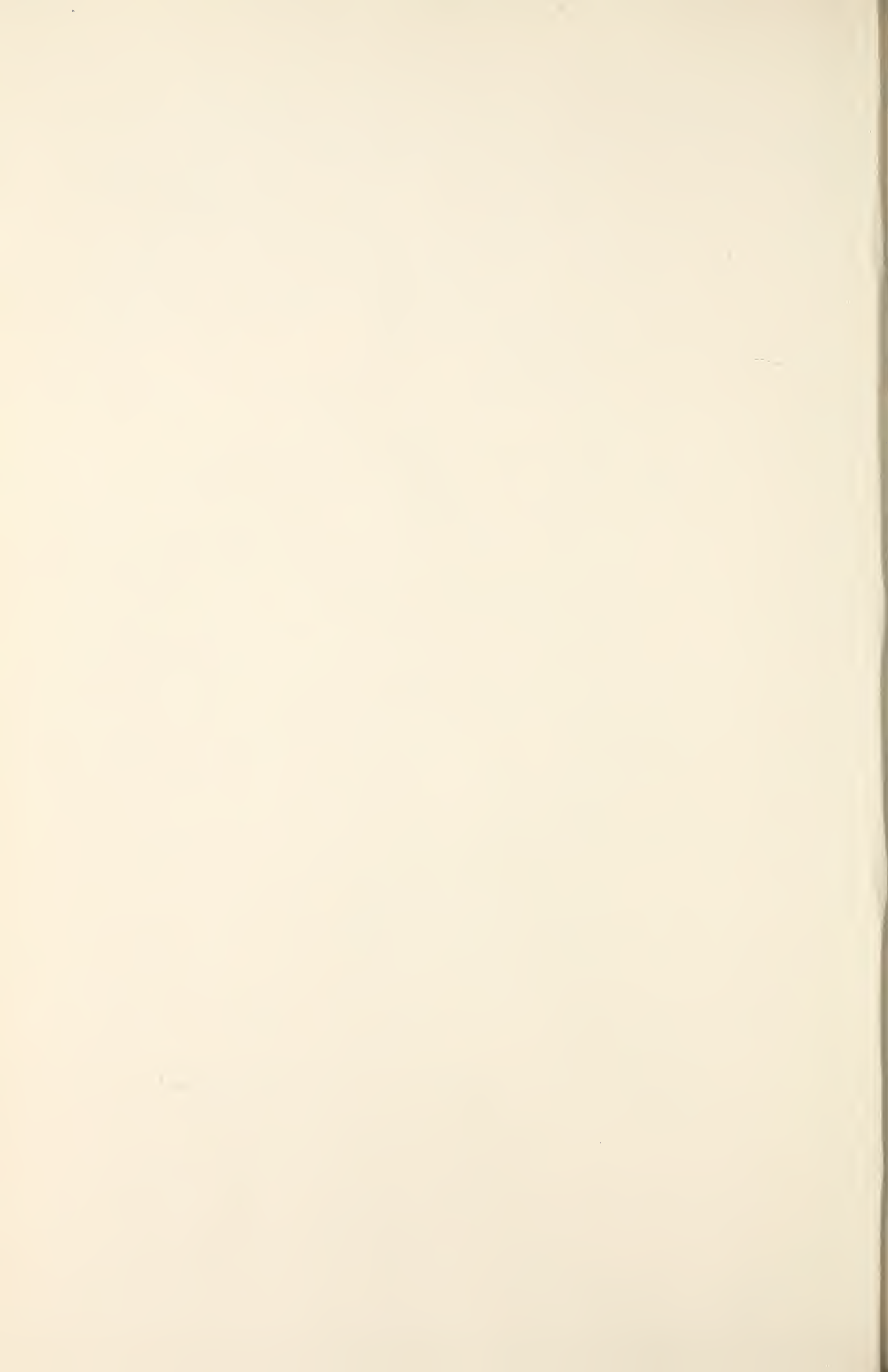
Quarter Begins	Monday, March 28
Memorial Day Holiday	Monday, May 30
Final Examinations	Wednesday–Tuesday, June 8–14
Commencement	Wednesday, June 15

Summer session classes will begin Tuesday, June 23. During a quarter, day classes will begin on the second day of the quarter. Evening classes (5:45 P.M. or later) will begin on the first day of the quarter.



General Information

Bailey Hall
(Thompson Point Residence Hall)



The University

CAMPUSES

The main campus of Southern Illinois University is located in Carbondale, in Jackson County. The city is a railroad center and is easily accessible from all directions. The region is noted for its large peach and apple orchards, which in blossom time attract many tourists. Giant City, a state park, is a popular resort to the south of Carbondale, and Crab Orchard Lake, with swimming, boating, and fishing facilities, lies four miles to the east.

The main campus, located at the southern edge of Carbondale, is at present undergoing extensive expansion. It now comprises more than 1,700 acres, and more tracts of land are to be added. The following large permanent buildings form the nucleus of the University's physical plant:

Old Main	1886	Power Plant	1949
Altgeld Hall	1896	Service Shops	1951
Wheeler Building	1903	University School	1951
Allyn Building	1908	Woody Hall	1953
Anthony Hall	1913	Life Science Building	1953
Shryock Auditorium	1916	University Library	1956
Gymnasium	1925	Thompson Point	
Parkinson Laboratory	1928	Residence Halls	1956
McAndrew Stadium	1938	Agriculture Building	1957

In addition to the campus in Carbondale, there are 500 acres at the Little Grassy Lake Recreational Area, used as an outdoor education summer camp; Southern Acres, in the former administrative area of the Illinois Ordnance Plant, where the Division of Technical and Adult Education and a veterans' housing project are located; and some 900 acres devoted to wildlife research.

Until additional space is available, the University is making use of several dozen small temporary buildings. Some of these are converted residences; others were built originally as army barracks and have been transported to the campus for office, classroom, dormitory, apartment, and storage space. They will be given up as permanent space becomes available.

The University's Southwestern Illinois Residence Office is located

4 *General Information*

at the Broadview Hotel, East St. Louis. This Office directs the operation of the University residence centers located in Alton, Belleville, and East St. Louis. The facilities of Shurtleff College have been leased by the University for the operation of the Alton Residence Center. Classes at the Belleville Residence Center are held in the Belleville Junior High School. The East St. Louis Residence Center is located at the former East St. Louis High School Building.

HISTORY

Southern Illinois University was established in 1869 as Southern Illinois Normal University. The shortened name became official in 1947 by action of the state legislature.

In 1874 the first building on the campus was completed, financed by state-appropriated funds and contributions from citizens of Jackson County. In the fall of that year, the first regular academic year for the school, 150 students were enrolled. The student population has increased steadily to over 10,400 resident students and another 3,000 taking off-campus work.

For some years after its establishment, Southern operated as a two-year normal school. In 1907 it became a four-year, degree-granting institution, though continuing its two-year course until 1936. In 1943, after a vigorous campaign led by President Roscoe Pulliam, the state legislature changed the institution, which had been in theory exclusively a teacher-training school, into a university, thereby taking official recognition of the great demand in the area for diversified training.

The action of the legislature led to establishing Colleges of Education, Liberal Arts and Sciences, and Vocations and Professions, offering the degrees of Bachelor of Science in Education, Bachelor of Arts, and Bachelor of Science. In 1947 the Bachelor of Music degree was approved, in 1951 the Bachelor of Music Education, and in 1957 the Bachelor of Science in Agriculture. Graduate work was instituted in 1943 and the Graduate School was formally established in 1948. At this time it was authorized to grant the Master of Arts and Master of Science degrees in addition to the Master of Science in Education. In 1952 the degree Master of Fine Arts was added to the list, and in 1956 the Master of Music, the Master of Music Education, and the Doctor of Philosophy. The Divisions of Communications, Fine Arts, and Rural Studies were established in 1953, and in 1955 became the Schools of Communications, Fine Arts, and Agriculture respectively. The College of Vocations and Professions was dissolved, and a School of Business was created in 1956. In 1957 the Department of Home Economics became the School of Home Economics, and in 1959 the Department of Applied Science became the School of

Applied Science. The growth of classes for adults and for those seeking technical training led to the establishment in 1953 of the Division of Technical and Adult Education, of which the Vocational-Technical Institute is a part.

In 1949 the Belleville Residence Center was established. Then, because of the growing demand for educational opportunities in the Madison-St. Clair counties area, the University established the Alton Residence Center and the East St. Louis Residence Center in 1957.

The presidents of the University have been:

Robert Allyn	1874-1892
John Hull	1892-1893
Harvey W. Everest	1893-1897
Daniel B. Parkinson	1897-1913
Henry W. Shryock	1913-1935
Roscoe Pulliam	1935-1944
Chester F. Lay	1945-1948
Delyte W. Morris	1948-

UNIVERSITY REGULATIONS

The University and its various instructional units reserve the right to change the rules regulating admission, instruction, and graduation; and to change any other regulation affecting the student body. Such regulations shall go into force whenever the proper authorities so determine, and shall apply both to prospective students and to those who have matriculated in the University. The University also reserves the right to withdraw courses and to change fees.

UNIVERSITY SESSIONS

The academic year is divided into three quarters. Each quarter is approximately twelve weeks in length.

The fall quarter opens near the middle of September and closes just prior to the Christmas vacation period. The winter quarter begins early in January and ends around the middle of March. The spring quarter begins the latter part of March and ends about the second week in June. Definite dates for each quarter may be found in the University Calendar.

In addition to the three regular quarters, there is an eight-week summer session which begins immediately following the close of the spring quarter.

The summer session consists of a comprehensive program of courses

offered by all departments of the University. In addition to the courses which run the full eight weeks, there are a number of workshops and short courses covering a shorter period of time.

CLASS PERIODS

The basic unit ("hour") of instruction is a period of fifty minutes. All schedules allow an interval of ten minutes between successive instruction periods. During the regular academic year daytime classes meet on the hour from 8:00 A.M. to 5:00 P.M., including the noon hour, but the ten o'clock period is reserved at least three days per week for assemblies and special events. On Saturdays, classes are scheduled during the morning hours only. For example, a three-hour course may be scheduled to meet at 8:00 A.M. either on Monday, Wednesday, and Friday, or on Tuesday, Thursday, and Saturday. For the benefit of teachers and other employed persons a certain number of upper-level and graduate courses are scheduled to meet for a longer period on Saturday morning only.

Evening classes are scheduled for two periods, 6:00 P.M. to 7:25 P.M. and 7:35 P.M. to 9:00 P.M. Courses scheduled for these periods are mainly those included in the general education program; i.e., required for all degrees. Five-hour courses meet three periods per week. Four-hour courses meet two periods per week, but they begin at 5:45 P.M. if scheduled for the first period and continue until 9:15 P.M. if scheduled for the second period. Three-hour courses meet twice a week. Upper-level and graduate courses are also scheduled to meet in the evening on the same basis as that described above for Saturday classes.

Summer session class periods are lengthened to seventy-five minutes to compensate for the shorter (eight-week) term. The first class period begins at 7:30 A.M., with successive periods following at intervals of one hour and twenty-five minutes (seventy-five minutes plus ten minutes intermission) throughout the day.

GENERAL OFFICES AND COUNCILS

The general offices of the University are the President's Office, the Registrar's Office, and the Business, Personnel, and Auxiliary and Service Enterprises Offices. Attached to the President's Office are the Vice-President for Instruction, the Vice-President for Business Affairs, and the Legal Counsel and Assistant to the President. The Vice-President for Instruction is the general co-ordinator for the instructional and research programs of the University. The Registrar and Director of Admissions is responsible to the Vice-President for Instruction. Responsible to the Vice-

President for Business Affairs are the Business Offices (which include the Business Manager's Office, the Accounting Office, the Purchasing Office, the Bursar's Office, and the Auditor's Office), the Personnel Office, the Office of Auxiliary and Service Enterprises, and the Student Work Program.

The President is assisted by a number of advisory bodies, including the University Council, which advises him on any matter of University-wide application; the University Council on Campus Development, which recommends policies and plans for the development of the University plant; the University Budgetary Council, which recommends both the annual internal budget and the biennial budget request; the Council on Intercollegiate Athletics, which exercises control over the athletic program of the University; and the Student Council, which advises and recommends upon matters of general student concern.

There are other University councils, including the University Instructional Aids Council, which advises the Vice-President for Instruction concerning the programs of the University Library and its Audio-Visual Aids Service, the University Museum, the University Book Rental Service, and the University Statistical Service; the Faculty Council, which makes recommendations concerning undergraduate requirements for degrees and admission of students (subject to the review of the University faculty); the Graduate Council, which advises the Dean of the Graduate School concerning programs for advanced degrees; the Educational Service Council, which advises those concerned with the off-campus educational program of the University; and the Campus Journalism Council, made up of both students and faculty members, which concerns itself with the programs of various student publications such as the *Obelisk* and the *Egyptian*.

There is also a Secretary of the University Faculty, who serves as the University's record-keeper and parliamentarian, secretary of the Faculty Council, and central scheduling officer for all special events and meetings.

GENERAL ADMINISTRATIVE OFFICES

OFFICE OF THE PRESIDENT

President Delyte W. Morris, Ph.D. (Iowa)	1948
Assistant to the President Edw. V. Miles, Jr., A.M. (St. Louis)	1919
Administrative Assistant to the President Kenneth R. Miller, M.S. in Ed. (Butler)	1958
Budget Officer Clarence W. Stephens, Ed.D. (Indiana)	1952
Legal Counsel and Assistant to the President John S. Rendleman, J.D.	1951
Secretary to the President Lois H. Nelson, M.S. in Ed. (Illinois)	1948

8 *General Information*

Field Representative Charles C. Feirich, B.J. (Missouri)	1953-54; 1955
Research Assistant Jane Crichton, B.Ed. (Southern Illinois)	1948-52; 1955
Recorder Charles D. Butler, B.A. (Southern Illinois)	1955

GENERAL INSTRUCTION

Vice-President for Instruction Charles D. Tenney, Ph.D. (Oregon)	1931
Secretary of the University Faculty Elbert Fulkerson, M.A. (Illinois)	1932
Instructor Edmund C. Hasse, M.A. (Southern Illinois)	1953

Registrar

Registrar and Director of Admissions Robert A. McGrath, Ph.D. (Iowa)	1949
Associate Registrar and Director of Admissions Willis E. Malone, Ph.D. (Ohio State)	1939
Associate Registrar for Residence Centers John H. Schnabel, Ed.D. (Indiana)	1957
Instructor Wilbur Ray Venerable, M.A. (Kentucky), Pre-College Adviser	1957
Assistant Registrar Sue J. Eberhart, M.S. in Ed. (Southern Illinois)	1948
Assistant Registrar Herbert William Wohlwend, M.S. in Ed. (Southern Illinois)	1958
Assistant Registrar for Residence Centers Gene Clyde Turner, M.S. (Southern Illinois)	1958
Assistant Registrar for Residence Centers David Reynolds Van Horn, M.S. (Oklahoma State)	1957
Supervisor (Editor) Earl E. Parkhill, B.S. in Ed. (Southern Illinois)	1950
Division Chief of Admissions Carol Van Dam, B.A. (Southern Illinois)	1957-58
Division Chief of Admissions Vera E. Borger, B.Ed. (Southern Illinois)	1958

Academic Advisement and Sectioning Center

Associate Registrar and Director of Admissions Willis E. Malone, Ph.D. (Ohio State)	1939
Supervisor Marion B. Treece, M.S. in Ed. (Southern Illinois)	1957-59

BUSINESS AFFAIRS

Vice-President for Business Affairs George H. Hand, Ph.D. (Princeton)	1952
---	------

Director of Personnel Office Max M. Sappenfield, Ph.D. (Illinois)	1954
Director of Auxiliary and Service Enterprises Paul W. Isbell, M.S. (Illinois)	1952
Assistant Director of Auxiliary and Service Enterprises Carlton F. Rasche	1951
Supervisor of Campus Services Earl A. Morgan, Jr., B.Ed. (Southern Illinois)	1955
Supervisor of Food Services Freeman L. Schrodtt, LL.B. (Northwestern)	1954

Business Manager

Business Manager Robert L. Gallegly, A.M. (Illinois)	1946
Assistant Business Manager Frank Dusek, B.S. (Southern Illinois)	1952
Business Officer for Residence Centers Caswell E. Peebles, B.S. (Illinois)	1957
Chief Accountant Warren E. Buffum, B.A. (Washington)	1950
Auditor Francis Glynn	1958
Purchasing Agent George Toberman	1957
Bursar Thomas J. Watson, B.S. (Southern Illinois)	1953

COUNCILS

THE FACULTY COUNCIL

D. W. Morris, <i>Chairman</i>	Hellmut A. Hartwig, 1961
Charles D. Tenney, <i>Vice-Chairman</i>	C. William Horrell, 1959
Elbert Fulkerson, <i>Secretary</i>	Paul W. Isbell, 1960
T. W. Abbott	W. E. Keepper
Richard W. Anschutz, 1960	W. D. Klimstra, 1959
Imogene C. Beckemeyer, 1960	Charles H. Lange, 1960
James G. Benziger, 1959	Robert G. Layer, 1961
Amos Black, 1960	Bonnie A. Lockwood, 1961
Henry A. Bruinsma, 1960	Paul J. Lougeay, 1961
Roye R. Bryant, 1961	Ralph E. McCoy, 1960
Murnice H. Dallman, 1959	Wilbur C. McDaniel, 1960
Raymond H. Dey	Leslie F. Malpass, 1959
Claude J. Dykhouse, 1960	Willis Moore, 1960
Milton T. Edelman, 1959	J. W. Neckers, 1961
Robert C. Etherton, 1961	William E. O'Brien, 1960
Robert D. Faner, 1961	Charles Pulley, 1959
Harvey I. Fisher, 1961	Eileen E. Quigley
Robert B. Forman, 1959	Alice Rector, 1959
Cameron W. Garbutt, 1960	Henry J. Rehn
John Erle Grinnell	Douglas L. Rennie, 1961
John E. Griswold, 1961	Marian E. Ridgeway, 1960

10 *General Information*

Max M. Sappenfield, 1959
Burnett H. Shryock
Ernest J. Simon
Willis G. Swartz

C. Horton Talley
R. F. Trimble, 1960
Charlotte Zimmerschied, 1960

THE STUDENT COUNCIL

(For 1958–1959 School Year)

Bill Berry, *President*
Jerry Feezel, *Vice-President*
Yvonne Anton
Ethel Beltz
Kenneth Cannon
Rafiq Ali Chowdhry
Jim Connell
John Crowell
George Folkerts

Kagee Gullicksrud
Harold Heller
Zelma Johnson
Thomas Mabry
Ron Meyer
Joe Sepich
Gary Taylor
Sandra Waugh

THE GRADUATE COUNCIL

Willis G. Swartz, *Chairman*
David T. Kenney, *Secretary*
T. W. Abbott
Rebecca E. Baker, 1960
Henry A. Bruinsma, 1960
George Garoian, 1961
John E. Grinnell
W. E. Keepper

George K. Plochmann, 1961
Eileen E. Quigley
Henry J. Rehn
Ivan L. Russell, 1959
C. W. Samford, 1959
Burnett H. Shryock
C. Horton Talley
Charles D. Tenney

THE EDUCATIONAL SERVICE COUNCIL

Charles D. Tenney, *Chairman*
Elbert Fulkerson, *Secretary*
T. W. Abbott
John O. Anderson, 1960
I. P. Brackett, 1960
Henry A. Bruinsma, 1959
Royce R. Bryant, 1959
Raymond H. Dey
John E. Grinnell
W. E. Keepper

Eileen E. Quigley
Harves Rahe, 1960
Henry J. Rehn
Burnett H. Shryock
Ernest J. Simon
Willis G. Swartz
C. Horton Talley
William J. Tudor
Walter J. Wills, 1959

THE UNIVERSITY INSTRUCTIONAL AIDS COUNCIL

Charles D. Tenney, *Chairman*
John O. Anderson, 1959
Rebecca E. Baker, 1959
Philip J. Cochrane

Chalmer A. Gross, 1960
Donald G. Hileman, 1960
John F. Hosner, 1960
Donald A. Ingli

John Charles Kelley
William Lyons, 1959

Ralph E. McCoy

THE COUNCIL ON INTERCOLLEGIATE ATHLETICS

D. W. Morris, *Chairman*
Orville Alexander, 1961
J. A. Bender, 1963
Donald N. Boydston
E. C. Coleman, 1960

George H. Hand
W. A. Howe, 1959
Arthur Lean
Clarence W. Stephens, 1962

THE CAMPUS JOURNALISM COUNCIL

Bill Berry, *Chairman* (Student),
1959
Edward Bencini, 1959
Donna Kay Blaseck (Student), 1960
Jim Haynes (Student), 1959

David Kammler (Student), 1962
Fred K. Lingle, 1959
William H. Lyons, 1959
Dick Taylor (Student), 1961
Sheila Turner (Student), 1959

THE UNIVERSITY COUNCIL ON CAMPUS DEVELOPMENT

D. W. Morris, *Chairman*
George H. Hand, *Vice-Chairman*
Charles M. Pulley, *Secretary*
I. Clark Davis
Gen. Robert W. Davis, 1959

Robert L. Gallegly
W. A. Howe
John S. Rendleman
Charles D. Tenney
W. J. Tudor

THE UNIVERSITY BUDGETARY COUNCIL

D. W. Morris, *Chairman*
Charles D. Tenney, *Vice-Chairman*
George H. Hand, *Executive Officer*

Robert L. Gallegly
W. C. McDaniel, 1960
Willis Moore, 1960

THE UNIVERSITY COUNCIL

D. W. Morris, *Chairman*
John S. Rendleman, *Secretary*
I. Clark Davis
Troy W. Edwards, 1960
Robert D. Faner, 1960
Jack W. Graham, 1960
George H. Hand

R. V. Lee, M.D.
Robert A. McGrath
Willis Moore, 1959
Ted R. Ragsdale, 1959
Henry J. Rehn, 1960
Charles D. Tenney
William J. Tudor

Instructional Units

THE GRADUATE SCHOOL

The purpose of the Graduate School is to make available to advanced students courses and other work which will increase their competencies in particular fields. Development of the power of independent investigation is especially sought. The association of mature and beginning scholars is an important aspect of graduate work and is encouraged. The Graduate School seeks to stimulate scholarly activity and research among the staff, in order to maintain the proper atmosphere for the conduct of graduate instruction.

Graduate work is available in these areas and departments: Accounting, Agricultural Industries, Animal Industries, Anthropology, Art, Botany, Business Administration, Chemistry, Clothing and Textiles, Design, Economics, Educational Administration and Supervision, Elementary Education, English, Food and Nutrition, Foreign Languages, General Management, Geography, Geology, Government, Guidance, Health Education, History, Home and Family, Home Economics Education, Industrial Education, Instructional Materials, Journalism, Marketing, Mathematics, Microbiology, Music, Philosophy, Plant Industries, Physical Education, Physics, Physiology, Psychology, Recreation and Outdoor Education, Rehabilitation Counseling, Secondary Education, Secretarial Science, Sociology, Special Education, Speech, Speech Correction, Theater, and Zoology.

From 1944 until 1948, work could be taken toward the degree of Master of Science in Education. In the latter year, the University was authorized to confer the degrees of Master of Arts and Master of Science and in 1952 the Master of Fine Arts degree was added. In 1953 a Sixth-Year Program of graduate work was authorized by the Board of Trustees, consisting of work beyond the master's degree. The Sixth-Year Program does not result in a degree but in a Specialist's Certificate, and is intended to be a terminal course, not one leading to more advanced graduate work. In 1956 the degrees of Master of Music and Master of Music Education were authorized by the Board of Trustees.

In 1955 the Board approved the Doctor of Philosophy degree. Since the fall of 1956, applications have been accepted from persons wishing to become doctoral candidates in government and speech correction. In

the fall of 1957 psychology was added to this group, and in the spring of 1958 microbiology was approved. Secondary education, speech, and zoology have been approved to accept candidates, effective the fall of 1959.

Graduate fellowships and assistantships are available to qualified graduate students. These positions pay from \$100 to \$250 per month on a half-time basis, with remuneration depending on the nature and responsibilities of the appointment in each case. Persons wishing to apply for graduate fellowships, which require no more than ten hours of work per week, should apply directly to the Graduate Office, in person or by written inquiry. Those wishing to apply for assistantships should inquire in the department of their major interest. Normally, the assistantship carries twenty hours of work each week. Both fellowships and assistantships carry remission of the tuition charge. There are certain other fees which are not remitted. There are also tuition scholarships available to qualified students through application to the Dean of the Graduate School.

Students who wish to enter the Graduate School must first make formal application to the Admissions Office. Also they should ordinarily discuss the prospect of obtaining the courses they wish to take, or other work they wish to do, with the chairmen of major departments, since admission to the Graduate School does not automatically guarantee admission to a particular major. Inquiries about graduate work generally should be directed to the Dean of the Graduate School.

COLLEGE OF LIBERAL ARTS AND SCIENCES

The College of Liberal Arts and Sciences serves the students of Southern Illinois University in many capacities. Its course offerings provide (1) basic subject matter for the general education program; (2) opportunity for concentration in a major in any one of the seventeen academic departments administered by the College; (3) electives not available in other instructional units of the University; (4) extension and adult education offered through the appropriate divisions; (5) graduate level instruction for students pursuing higher degrees than the baccalaureate; (6) pre-professional training needed for admission to such specialized schools as law, medicine, and dentistry.

The diversified offerings of the College of Liberal Arts and Sciences are designed to help the student achieve a balanced personality, an awareness of the cultures of the past, an appreciation of his fellow man, and a fundamental understanding of the ever-changing physical, social, and political environment in which he lives. His educational experiences as a college student should provide creative skills and intellectual equipment that will do much to enable him to enjoy a richer life as a member of

society. Also, a student in the College may prepare for teaching at the secondary level by including in his studies certain professional courses offered by the College of Education. The Bachelor of Arts degree is granted to a student who fulfills requirements for graduation from the College of Liberal Arts and Sciences. This degree is the basis for advanced work in most of the learned professions.

High school students planning to enroll in the College should consult their counselors regarding their course of study, since careful planning of the high school program is vitally important to the academic welfare of the student during his first and second years of college work. In general, high school students planning to enter the College should include the following courses in their program of study: four units of English, three to four units of mathematics with a minimum of one and one-half units of algebra and one unit of plane geometry, one unit of physics or chemistry, and two units of a foreign language with Latin preferred if available.

Admission to the College should be initiated through the Admissions Office. Inquiries concerning further information about the programs of the College should be directed to the Dean.

The College includes the following departments: Anthropology, Botany, Chemistry, English, Foreign Languages, Geography, Geology, Government, History, Mathematics, Microbiology, Philosophy, Physics and Astronomy, Physiology, Psychology, Sociology, and Zoology.

The College offers an educational program embracing twenty-three basic areas of subject matter grouped collectively as follows.

THE SOCIAL STUDIES

The social studies departments of the College of Liberal Arts and Sciences offer courses designed to enable the student to achieve an understanding and appreciation of civilization viewed in historical perspective, and thereby to equip him for participation in the duties and responsibilities of citizenship. His studies will provide him with a better understanding of the nature and variety of religions, social organizations, and technologies and give him insights and understandings which will enable him to live more constructively with others in his family, community, and nation.

THE SCIENCES

The earth, physical, and biological science departments contribute to the liberal education of all students, whether their principal intellectual interests are in these disciplines or in other areas of specialization.

The methodologies of the disciplines help the student develop habits of orderly thinking. A knowledge of science also equips him to understand the worlds of nature, technology, and industrial processes.

THE HUMANITIES

A student in the humanities is expected to attain proficiency in language, to develop an understanding and appreciation of literature, and to recognize its civilizing values. The works, men, and intellectual movements that make up literary history are examined. The basic and persistent human problems are identified, and their classic and current solutions are studied. A critical evaluation of mankind's moral, aesthetic, and religious values is made in their historical and contemporary settings, and the student is encouraged to think rationally, imaginatively, and responsibly.

PRE-PROFESSIONAL PROGRAMS

The College offers the following pre-professional programs for students training for careers in the professions: pre-dental, pre-legal, pre-medical, pre-medical technology, pre-occupational therapy, pre-pharmacy, pre-physical therapy, pre-public health, pre-theological, and pre-veterinary.

COLLEGE OF EDUCATION

The College of Education is committed to giving professional training to teachers of all subjects taught in the public schools and to supervisors, administrators, and specialists. The preparation of teachers for all grades from kindergarten through high school is the special function of the College. In its graduate offerings, however, it broadens its efforts to include professional work for prospective college teachers and several specializations in school administration and supervision. For most undergraduate students preparing to teach in high schools, the subject matter majors will be taken in the other colleges and schools of the University, and the professional preparation for teaching, including the student teaching, will be taken in the College of Education.

At Southern a high school graduate looking for a career in the educational world can prepare for high school, elementary, or kindergarten-primary teaching; for coaching; for positions in school administration; for guidance work; for teaching and supervising special education; and for other community services. He can prepare to teach in special fields such as art, music, home economics, industrial education, business, and

agriculture. He can prepare to be a teacher of science, social studies, English, and mathematics. He can get a teaching specialization in specialized fields such as speech correction and general speech. He can dedicate himself, if he wishes, to the teaching of mentally handicapped children, the hard of hearing, and the partially sighted. Physical education as a field attracts many able men and women, as do such newer fields as recreation and outdoor education. The graduate may look for a career in health education or in school counseling. He may prepare to be a principal or a superintendent by going on with graduate work, or even to be a teacher of teachers in some college or university. The College of Education grants the Bachelor of Science in Education and the Bachelor of Music Education degrees.

Admission to the College should be initiated through the Admissions Office. Inquiries concerning further information about the programs of the College should be directed to the Dean.

Students who wish to become principals or supervisors in the public schools take graduate work in the Department of Educational Administration and Supervision. The department's major emphasis is on graduate work, but it also participates in providing background for elementary and high school teachers.

The Department of Elementary Education is mainly responsible for the preparation of kindergarten-primary and elementary teachers. Advisers for the department see that students get proper training in other areas such as social studies, language arts, science, music, and art as well as in understanding children and teaching. On the graduate level the department educates for specialization in the teaching fields.

The Department of Guidance recognizes the increasing need for educational, vocational, and personal counselors in the public schools by preparing graduate students for the task of appraising the personalities and abilities of high school students and helping them to solve their vocational and other problems.

The Department of Health Education prepares teachers of health education and works with physical education in preparing teachers of physical education. It also provides graduate specializations in health and safety education.

The preparation of teacher-librarians, audio-visual aids directors, and specialists in all instructional materials is the function of the Department of Instructional Materials.

The Department of Physical Education for Men has the responsibility for training men as teachers of physical education and as coaches for the various sports played in the schools. In addition, the department handles the athletic program of the University. The athletic program is used as a training school for coaches and accordingly is an integral part of physical education.

The Department of Physical Education for Women has the task of preparing women to teach physical education in the public schools. The program includes not only methods of developing and maintaining a strong, healthy body but also such skills as dancing for grace, posture, and self-expression.

Recreation and outdoor education is a relatively new field, but outdoor education and camping programs are developing all over the country. The Department of Recreation and Outdoor Education trains camp counselors and directors, as well as recreation and outdoor education specialists. Part of the training program at Southern is experience in the summer camping and recreation programs at the University's camp at Little Grassy Lake.

The Department of Secondary and Higher Education participates in the preparation of high school teachers, offers courses in junior college and higher education, and shares with other departments of the college in graduate preparation of administrators, supervisors, curriculum specialists, and guidance directors.

The Department of Special Education was formed to serve the needs of the mentally and physically handicapped children through expert teacher training, through consultative services to school officials, and through research and experimentation.

The Teacher Training Division offers the student teaching for teachers in all departments. An important part of the Division is the University School, where potential teachers observe good teaching, make studies, and obtain practice. The Division also has arrangements for student teaching under careful supervision in a number of public schools in Southern Illinois.

SCHOOL OF AGRICULTURE

The School of Agriculture has three primary functions: teaching, educational service, and research. There are four departments in the School: (1) Agricultural Industries, (2) Animal Industries, (3) Forestry, and (4) Plant Industries. Its four-year program of study leads to a Bachelor of Science in Agriculture degree or to a Bachelor of Science in Education with a major in agriculture for students in the College of Education. Programs of graduate study are presented by the departments of Agricultural Industries, Animal Industries, and Plant Industries.

A new agriculture building, occupied in 1957, provides adequate classrooms and well-equipped laboratories for teaching and research on the campus. In addition, there are agronomy, beef, dairy, horticulture, poultry, sheep, and swine centers where students may observe the latest developments in these technical areas. Test farms are operated to dem-

onstrate the effectiveness of these practices and to serve as farm management laboratories.

Much of the work on approximately 1,500 acres of farm land is done by student workers, who are thereby enabled to pay part of their college expenses, as well as to obtain practical and educational experience in agriculture.

Admission to the School should be initiated through the Admissions Office. Inquiries concerning further information about the programs of the School should be directed to the Dean.

The Department of Agricultural Industries provides instruction, research, demonstration, and consultation in the fields of agricultural engineering, agricultural economics, and agricultural education.

Courses are offered in the four fields of agricultural engineering: rural electrification, farm power and machinery, farm structures, and soil and water. A special program is available to train farm machinery specialists for positions requiring managerial ability for dealer services and sales work. Other positions open to students in this area of work are machinery company block men and field service supervisors, soil and water engineering technicians, rural electrification specialists, and farm structures sales and service men. This program does not lead to a professional degree in agricultural engineering.

In agricultural economics, courses are offered in the following fields: farm management, farm credit, agricultural marketing, agricultural co-operatives, farm policy, and agricultural prices. By following a specialized program, students may qualify for positions with professional farm management firms; as agricultural credit representatives for banks, insurance companies, production credit associations, and national farm loan associations; as state agricultural statisticians with livestock commission firms, meat packers, grain, dairy, poultry, fruit, and vegetable buying and selling organizations, and co-operative marketing and purchasing associations; as representatives for agricultural related industries, such as feed, fertilizer, and petroleum; as civil service employees in marketing, credit, and farm management.

In agricultural education, completion of a four-year program leads to certification as a teacher of vocational agriculture.

The Department of Animal Industries provides instruction, research, demonstration, and consultation in those phases of agriculture and industry dealing with livestock, dairying, and poultry production.

Courses in the breeding, feeding, and management of beef cattle, dairy cattle, poultry, sheep, and swine are available. Students may obtain preparation for a wide variety of positions: beef, sheep, swine, dairy, and poultry specialists, herdsmen, feed salesmen, livestock farm operators, livestock consultants, and others. The student also has an opportunity to combine in his curriculum the study of the agronomic phases of agriculture,

agricultural economics, and agricultural engineering. He also may broaden his opportunities by combining work in this department with training in other areas of the University, such as business, biological or physical science, and journalism.

Students interested in veterinary medicine or dairy technology may obtain two years of training in this department before entering a professional school to complete their preparation.

The Department of Forestry provides instruction, research, and consultation in the fields of forest production and utilization. The department offers a full four-year curriculum leading to a Bachelor of Science degree.

In addition to basic science and other foundation courses, the four-year program at Southern requires a core of basic courses in forestry. These include the courses required for membership in the Society of American Foresters. Additional available elective courses will allow specialization in forest production, forest utilization, or wildlife management.

The department's four-year program provides preparation for positions in administration or research with the United States Forest Service and other federal agencies, the state departments of forestry, and the forestry divisions in lumber, paper, plywood, and other industries related to forestry. In addition, students may qualify for positions in wildlife conservation, forestry extension, and farm forestry work.

The Department of Plant Industries provides instruction, research, demonstration, and consultation in those phases of agriculture dealing primarily with the production of plants, their preservation and use, and the soils in which they grow.

Courses are offered in such subject matter as cereals, forages, tree fruits, small fruits, nuts, vegetables, and the preservation and processing of such crops; landscape gardening, floriculture, genetics, and breeding; control of plant diseases, insects, and weeds; the science of soils, their management, conservation, and fertility, and the use of fertilizers.

Depending upon the interests of the student, preparation may be obtained in a wide range of agricultural fields from general farming to intensive specialization; from commercial sales and consultation to preparation for advanced study, research, and teaching.

In addition to actual farming operations, the student has the choice of preparing himself for work in fertilizers and other agricultural chemicals production, sales, and consultation; for state and federal employment in the inspection service or weed control; as a field man for canneries and other food processors, including the packaging industry; for landscape servicing and greenhouse work; as an orchard manager; as a sales representative for seed houses; or as a soil scientist for farm planning and employment with the Soil Conservation Service.

SCHOOL OF BUSINESS

Although the School of Business will accept graduates from any recognized high school, it recommends that these students include in their high school program at least three units of English, two of mathematics, two of science, and two of social studies.

The School of Business grants the Bachelor of Science degree. The School is composed of the following five departments: Accounting, Economics, Management, Marketing, and Secretarial and Business Education. Each of these specializations aims to prepare the student for successful performance in the business world. The programs develop not only a knowledge of the operational methods of business and a familiarity with the sources of information and methods of collecting and interpreting data but also an understanding of, and a skill in, the art of human relations plus a high sense of integrity and responsibility.

Students who fulfill both the general University requirements and the requirements of their major department can normally expect to earn the Bachelor of Science degree in four years. Students may, if they wish, choose a minor field of specialization. Groupings of courses constituting a minor specialization are provided not only for students in this School but also in other schools and colleges in the University. Students in the School of Business are required to take at least 40 per cent of the graduation requirement of 192 quarter-hours within the School and 40 per cent in general education courses outside of the School.

Proficiency in using written and spoken language should be acquired before the end of the second year. Where this has not been done, additional courses intended to develop such proficiency should be taken.

Admission to the School should be initiated through the Admissions Office. Inquiries concerning further information about the programs of the School should be directed to the Dean.

Accounting is a fundamental area of knowledge by means of which the many transactions of business are analyzed, recorded and interpreted. The program in the Department of Accounting is designed to develop the ability which leads to professional positions in cost accounting, auditing, income tax, financial statement analysis, and general financial accounting.

Graduates of the Department of Economics can look forward to opportunities in banking, in statistics—that is, the collection and analyzing of economic information—in government work, in university work, and in labor union activities.

The Department of Management provides programs leading to a better understanding of the management activities required in every business. It provides separate programs in general management, in per-

sonnel management, and in financial management. While graduates from this program cannot expect to go directly into management positions, they are oriented in that direction and are alive to the need for appropriate after-college experiences to develop themselves for management positions.

Marketing includes all of the activities of our distribution system which takes the products of our farms, mines, and factories and finally places them in the hands of consumers. These activities include buying, storing, standardizing, sorting and grading, transporting, advertising, selling at wholesale and retail, handling credits and collections, and interpreting business and economic data. It is the function of the Department of Marketing to provide educational training in these areas.

The Department of Secretarial and Business Education provides a program for the training of secretaries and executive assistants, developing the needed skills in (1) stenographic techniques—typewriting, shorthand, transcription; (2) knowledge of the business world; and (3) ability to work harmoniously with others. Students preparing to teach business in high schools will find this an excellent major field.

SCHOOL OF COMMUNICATIONS

The School of Communications is set up to allow the students of the University to specialize in the study of the various mass communications media and to develop skills in the utilization of those media.

The School of Communications also is interested in research work in the various aspects of mass communications, and in making consulting and other services available to area schools, newspapers, radio and television stations.

While many of the students registering in the School of Communications will be interested in comparatively specialized programs of work in the areas represented by special departments, it is also possible for a student to be an area major in the general field of speech or of journalism, taking work in the broader fields rather than a specialized subdivision of one of them.

Admission to the School should be initiated through the Admissions Office. Inquiries concerning additional information about the programs of the School should be directed to the Dean.

The Department of Journalism offers professional training in news and editorial writing as well as in more specialized types of writing, community newspaper management, advertising, printing, and photography. Practical experience in various types of newspaper and other journalistic work is available through supervised work on various campus publications and through the co-operation of area publications.

The Department of Printing and Photography offers course work in printing designed to train printers and to provide background training for journalists and printing management specialists. Printers are registered in the Vocational-Technical Institute, journalism and printing management people in the School of Communications.

Photography courses in the School of Communications are designed to prepare journalists and photographers in photo-journalism, as well as to prepare general photographers.

The Department of Radio-Television offers a curriculum in electronic mass communication. Training is designed for those who will work in commercial and educational radio and television stations and in closely related businesses on a full-time professional basis; for those who will work on a part-time basis in such areas as religion, public relations and promotion, and education; and for those who will be interested in radio and television only as members of the audience. Major areas of instruction are station management, programming, production and direction, writing, announcing, analysis of programs and audiences, and research in all phases of radio and television. Actual experience is provided in the University's Broadcasting Service and professionally equipped FM radio station, in the University's developing television operations, and in area radio and television stations.

The Department of Speech offers general work in public speaking, oral interpretation, speech education, and the general speech training of students in other areas of specialization in the University.

The Department of Speech Correction offers specialized training (1) for people wishing to be certified as speech correctionists by the state of Illinois; (2) for classroom teachers who need to be able to work with minor speech defects and to know the referral agencies which may be used to help the more severe cases; and (3) for more highly specialized persons to work in colleges, universities, hospitals, and private clinics.

In order to prepare students for such occupations, there are both formal course offerings that lead to a teaching certificate and practical experiences with speech and hearing cases.

There is also an attempt at constant integration and association of students and faculty members not only in this department, but also in related departments such as Psychology, Special Education, Physiology, and other germane fields of knowledge.

The Department of Theater offers complete preparation for participation in theater activity of every kind. Courses are offered for students who expect to participate in community theater activity either as a vocation or as an avocation; teachers in educational theaters whether at the elementary, secondary, or college and university level (graduate and undergraduate); and the occasional very gifted student who wishes to prepare for professional theater.

SCHOOL OF FINE ARTS

The School of Fine Arts includes the departments of Art, Design, and Music. It serves as an instrument of the University for the direction of training and the stimulation of creative and professional work in the fine arts. It provides service work for the other colleges, divisions, schools, and departments of the University. It also makes every reasonable effort to take care of the needs of students, other than art, design, and music majors, who want an experience in the fine arts for either cultural or practical reasons. It offers not only undergraduate work but also graduate work leading to the master's degree.

The School of Fine Arts sponsors a number of special events each year. A Fine Arts Festival, which lasts several weeks, includes scholarly lectures, musical ensembles, individual performances, dance recitals, and dramatic presentations.

A continuous program of art exhibitions is also presented as a part of the educational process for students in the School of Fine Arts and as a service to the University, the community, and the area. Music Department facilities and courses, too, serve the University community through special courses for non-music majors and through an intensive series of public music programs available at no cost to University students and faculty members.

Admission to the School should be initiated through the Admissions Office. Inquiries concerning further information about the programs of the School should be directed to the Dean.

The Art Department offers programs in art education, painting, printmaking, pottery, weaving, jewelry and silversmithing, and art history. The Bachelor of Science in Education degree in the College of Education, with a major in art education, is offered for those students who wish to prepare themselves for positions in primary and secondary school teaching. The Bachelor of Arts degree in the College of Liberal Arts and Sciences, with a major in art history, is for students who wish to broaden their cultural perspective or who, by continuing with graduate work, are interested in teaching art history in colleges and universities. The Bachelor of Arts degree for students in the School of Fine Arts is offered for those who wish to prepare for professional careers in the various programs indicated above. Painting majors, however, should continue with graduate work, looking toward college or university positions as the most satisfactory type of employment.

The Design Department offers programs in visual design and product-shelter design. The program in visual design includes problems involved in the total field of advertising art. Some of the areas are graphics, packaging, and display.

The program in product-shelter design includes a study of all present industrial materials and techniques, planning, industrial communications, and problems involving the design of all mass-produced products including house and industrial structures.

The undergraduate degree in both visual and product-shelter design is a Bachelor of Arts degree in the School of Fine Arts. The undergraduate program is a four-year course designed to integrate the arts, sciences, and humanities with the design activity. A group of visiting designers giving from one- to four-week seminars is a planned part of the curriculum.

The department is in close contact with the design field and places its graduates in university design departments, design offices, architectural and engineering firms, and basic industries.

The Department of Music is an institutional member of the National Association of Schools of Music. It offers a variety of courses and curricula in the fields of music theory and composition, music history and literature, applied music, and music education.

The Bachelor of Music degree is offered for those students who wish to prepare for careers as professional performers and studio teachers, or who desire preparation for the Master of Music degree. The Master of Music degree is offered in the fields of history and literature, theory and composition, or applied music, the aim of these curricula being to prepare candidates for college teaching, professional performance, or careers in radio and television or dramatic performance. These courses are also designed as preparation for graduate study leading to doctoral degrees in musicology, composition, theory, or performance.

For students in the College of Education, the Department of Music offers courses leading to the Bachelor of Music Education degree and the Master of Music Education degree. These curricula offer a wide variety of musical experiences designed to prepare candidates for primary and secondary school teaching. In the case of the Master of Music Education degree, students are prepared for teaching at the college level or for advanced study leading to the doctorate in this field.

The Bachelor of Arts degree with a major in music is available to students in the College of Liberal Arts who wish to broaden their cultural perspective through this medium.

SCHOOL OF HOME ECONOMICS

The major objectives of the School of Home Economics are to provide instruction, to stimulate research, to provide service work in home economics for other educational units desiring it, and to give service to the people in the area which will help in improving the understandings

and practices in their families and homes. No minor is required in the School of Home Economics.

For students in the College of Education a curriculum leading to the Bachelor of Science in Education degree is planned to meet the needs of students desiring to teach home economics in school departments maintained according to the provisions of the federal vocational acts. A Vocational Home Economics Certificate requires a bachelor's degree in home economics from an institution and in a curriculum approved for teacher training by the Vocational Division of the United States Office of Education and by the State Board for Vocational Education. Southern Illinois University is so approved for training teachers of home economics.

Students in the School of Home Economics may take curricula leading to the Bachelor of Science degree. A brief description of these curricula follows.

The Apparel Design curriculum is planned for students whose major interests and abilities are in clothing design and construction. It gives preparation for apparel designing or allied positions in the wholesale or retail fields of fashion by giving fundamental training in creative designing, pattern designing, draping, and clothing construction.

The Clothing and Textiles Merchandising curriculum provides fundamental training for positions as salespeople, buyers, or department managers with retail stores, custom shops, and manufacturers that are dealing with apparel, textiles, and furnishings. It includes professional courses in retailing, accounting, marketing, advertising, journalism, and field experience as well as fundamental courses in clothing, textiles, and home furnishings.

The Dietetics curriculum is designed to give technical education to those interested in becoming dietitians in hospitals, college dormitories, industrial plants, health clinics, laboratories, or public health and welfare organizations. The suggested curriculum meets the requirements of the American Dietetics Association.

The Foods in Business curriculum is planned for those students who desire to enter the business field as home service representatives for utility companies; as demonstrators for manufacturers; or as educational, experimental, and promotional workers with household equipment and foods.

The Home Advisers curriculum prepares the student for positions as home advisers, 4-H Club agents, and, with further training, extension specialists.

The Homemaking curriculum is designed to give emphasis to the personal development of the student and preparation to carry the responsibilities of homemaking and citizenship, not for a salaried career.

An Institution Management curriculum is planned to prepare students for managerial positions in institutional services. Graduates are prepared to fill positions as food service managers for residence halls, hotels, tearooms, school lunchrooms, and industrial or commercial restaurants. This curriculum meets the requirements of the National Restaurant Association.

Students in the College of Liberal Arts and Sciences may major in home economics. The curriculum for these students is planned for the profession of homemaking rather than for any of the salary-earning professional careers in home economics. It includes fundamental work in the various areas of home economics. Electives should be selected for their contribution to the broad cultural background so desirable for homemakers. This major allows time for specialization in a second field.

Admission to the School should be initiated through the Admissions Office. Inquiries concerning further information about the program of the School should be directed to the Dean.

DEPARTMENT OF APPLIED SCIENCE

Programs in applied science are now offered by the Department of Applied Science, which will become the School of Applied Science on July 1, 1959. Well-equipped drafting rooms, shops, and laboratories are available for the various programs offered in this department.

Two years of work in applied science provide most of the necessary courses for the first two years of engineering depending upon the student's objectives.

The tremendous employment opportunities in engineering are well known. The demand for engineers today is far beyond the number completing engineering degrees. Students completing two years of applied science at Southern have been successful in transferring to regular four-year engineering schools. Others may wish to complete the Bachelor of Science degree in applied science at Southern.

Admission to the Department should be initiated through the Admissions Office. Inquiries concerning further information about the program of the Department should be addressed to the Chairman.

DEPARTMENT OF INDUSTRIAL EDUCATION

The Department of Industrial Education serves the following groups of students: (1) students interested in teaching and/or supervising industrial education in the public schools; (2) students who plan to seek super-

visory and/or teaching positions in industry; and (3) students interested in becoming manual arts therapists. On July 1, 1959, this Department will become part of the School of Applied Science.

Students interested in teaching should follow the curriculum in industrial teacher education. Those interested in industrial supervision and training within industry should follow the curriculum in industrial science. Students interested in therapeutic work in connection with industrial arts should pursue the curriculum for manual arts therapists. The latter will serve a hospital internship near the completion of this curriculum.

Admission to the Department should be initiated through the Admissions Office. Inquiries concerning further information about the programs of the Department should be directed to the Chairman.

A four-year program leading to the degree Bachelor of Science in Education is given in preparation for teaching. Students who plan to teach industrial education should enroll in the College of Education with an undergraduate major or minor in industrial education.

A sixty-four or ninety-six quarter-hour major in industrial sciences leading to the degree Bachelor of Science is given in preparation for work in industrial science. With a sixty-four-hour major a twenty-four-hour minor in another area is required. A ninety-six-hour major requires no minor. A student in this program may specialize in one of the following four areas: (1) industrial design, (2) metal processing, (3) industrial personnel work, and (4) industrial planning.

Industrial design deals with the engineering, drawing, and design of production items. The person trained in this area could supervise and train engineering draftsmen for tool and product designing.

Metal processing deals with production methods and materials handled in metal industries. Persons trained in this area might supervise and train set-up men, production workers, inspection teams, and material handlers.

Industrial personnel work involves the selection, testing, training, and placement of industrial workers. Persons trained for this work would be expected to have a wide variety of industrial experience as well as an understanding of industrial vocational guidance.

Industrial planning involves plant layout and design, materials handling, jig and fixture design, and personnel organization. Supervisors in this work would train workers and develop fabrication and assembly lines within industry. A ninety-six quarter-hour major is required here.

More and more demands are being made for industrial arts teachers with therapeutical training. The four-year curriculum in manual arts therapy is in line with the United States Civil Service Commission's announcement No. 81 B, *Manual Arts Therapist*, issued November 13, 1956.

DEPARTMENT OF NURSING

The Nursing Department was established to help meet the health needs of Southern Illinois. The general purposes are to improve nursing services rendered to people in this area and to increase the number of nurses working in hospitals and other health agencies.

Two programs are offered by the Nursing Department. The basic professional program is open to high school graduates and others eligible for admission to the University who have had no previous education for nursing. Leading to the Bachelor of Science degree, this program aims to prepare young men and women for beginning positions in any field of nursing, including public health. Students entering the basic program should take the following subjects in high school, if at all possible: chemistry, biology, mathematics, physics, social studies, English, history, and typing. Foreign language is not required, but Latin is helpful to students entering the nursing field. Students weak in mathematics and/or chemistry should plan to enter during the summer session so as to remove deficiencies and strengthen their backgrounds.

The program for registered nurses leads to the Bachelor of Science degree, and prepares graduates for work in any branch of nursing. Intended for graduates of hospital schools, the purpose is to supplement and enrich the background of the practicing nurse. Credit for the diploma program will be given on an individual basis.

Admission to the Department should be initiated through the Admissions Office. Inquiries concerning further information about the program of the Department should be addressed to the Chairman.

COMMUNITY DEVELOPMENT INSTITUTE

Acting Director Richard W. Poston, B.A. (Montana)	1953
Assistant Director Richard C. Franklin, Ed.D. (Columbia),	
Assistant Professor	1956

In America and other parts of the world there is growing recognition of the fact that many of the most serious problems of modern society are the result of unfavorable social and economic conditions which exist in the local community. As a result of this recognition, training in community development offers opportunities for young people. Local citizens' groups, state and federal agencies, and private organizations are seeking men and women trained to help communities improve their social, moral, economic, and physical conditions.

Students in the Community Development Institute can major in

community development in a four-year program leading to a Bachelor of Science degree. This program combines classroom study with field training.

The student learns to work with civic leaders, educators, elected officials, and people at all levels of interest. He becomes acquainted with approaches and methods for developing greater unity in the community and for such specific phases of total community improvement as reducing intergroup tension, city planning, urban renewal, leadership development, and economic expansion.

Students planning to enter other careers which require a practical knowledge of community life and human relations may take a minor in community development. There are appropriate courses for school and public administrators, youth leaders, group and social workers, and educational specialists for industries, labor unions, farm organizations, religious groups, adult education councils, and other types of community-centered activities. Inquiries about the Institute's program should be addressed to the Director.

SMALL BUSINESS INSTITUTE

Director R. Ralph Bedwell, M.S. (Syracuse)	1954
Assistant Professor Willmore B. Hastings, B.S. (Illinois)	1955-58
Lecturer Robert M. Seepe, M.B.A. (Northwestern)	1958-59
Lecturer Frank Ford Stamberg, B.S. (Illinois)	1955-59

The Small Business Institute provides courses of instruction leading to college degrees for students intending to manage or organize small businesses. Through both campus courses and off-campus on-the-job instruction, the student is given the theoretical and practical approaches to the business chosen by him. The Small Business Institute will provide for each student a curriculum selected from various divisions of the University, all courses being selected because of their value to the student's objectives. Since most of the formal course work is completed by the senior year, the student can then be provided with work experience in an appropriate type of business for one or two terms.

This program benefits from the approval and guidance of a group of business leaders in Southern Illinois. These businessmen help young people in their communities study the various job opportunities, both present and future. The Small Business Institute helps the student evaluate these opportunities and the courses that will best prepare him for them, and guides him through the early years of his business. It is imperative that the student have his objective in mind by the end of his freshman year of college.

Graduates from this four-year program receive a Bachelor of Science degree with a major in small business. Inquiries about the Institute's program should be addressed to the Director.

LABOR INSTITUTE

Director John M. McDermott, B.S. (Southern Illinois)

1956

The function of the Labor Institute is to promote harmony and co-operation between labor and management by encouraging the training of students and others interested in labor and industrial relations, and to provide advice on the technical aspects of labor and industrial relations to labor, to industry, and to the public. This program will be carried out through the conducting of research and special surveys which may be of use to labor and industry in Southern Illinois, through the use of various specialists in the several departments of the University providing courses of instruction for students entering industry and labor, and through the establishing of appropriate special courses for personnel of industrial concerns within the area for the membership of various labor groups. Inquiries about the Institute's program should be addressed to the Director.

LATIN AMERICAN INSTITUTE

Director A. W. Bork, Doctor en Letras (National University of Mexico)

1958

In order to provide a special program of study for the student interested in Latin America, Southern Illinois University, beginning with the school year 1958-59, offers an undergraduate major in Latin American studies leading to the Bachelor of Arts degree.

This course of studies is designed to meet the need for increasing concern with Latin America and the growing interest in the field. It is planned to provide students with a wide general background in the history, geography, economics, languages, and literature of Hispanic America. Special emphasis is placed upon achievement of sufficient knowledge of, and skill in, the use of the Spanish language to make it an effective means of communication. This level of linguistic skill is essential to open the doors of cultural understanding and appreciation of Latin America to non-Spanish-speaking students. Equal proficiency in Portuguese for those who wish to specialize in Brazilian studies will be sought in due course.

The Latin American studies major is planned (1) to prepare students to participate intelligently and effectively in business or government activities in Latin America or dealing with Latin America and (2) to enable students to choose a field of specialization for advanced academic work.

At the undergraduate level the area studies course is necessarily somewhat strictly prescribed. Although some choice may be allowed, requirements will include the following.

SPANISH

Thirty-six hours above the first-year course, including the following: 151, 152, 153; 220, 6 hours; 309, 310, 311, 315, 333, or such other substitutes for the last two mentioned as may be suggested by the adviser. These courses include Spanish and Latin American literature surveys.

MATHEMATICS

Four hours: 120 or Economics 307. Statistics.

PHILOSOPHY

Twelve hours: 120, 121, 140, 160, 441. Logic, ethics, and political thought.

ECONOMICS

Sixteen hours: 205, 206, 315, 328. Principles, money and banking, international economics. Latin American economic problems will be added later or included in readings.

GEOGRAPHY

Twelve hours: 100, 316, 413. General geography and courses on Latin America.

HISTORY

Twenty-five hours: 201, 202, 352, 353, 354, 471, 472. United States and Latin American history and relations.

GOVERNMENT

Eighteen hours: 363, 392, 470, 475. Latin American government and politics, national and international.

ANTHROPOLOGY

Eighteen hours: 110 or 212-213; 344, 345, and/or such substitute courses as shall be prescribed, but at least one specialized course on Latin America.

PORTUGUESE

Five hours: 100. This course will be amplified to twelve hours as soon as feasible.

Of the above specified courses, 24 hours are included within the general education course requirements. Of the 192 hours needed for graduation, there will be 52 hours unspecified which must include the remaining required general education courses and what few electives may be desired. Students coming to Southern without any foreign language will be required to take the sequence 101-102-103, 101c-102c-103c in Spanish as prerequisites to the specified courses in the language. If their special interests demand, they should expect also to take such additional courses as desired in psychology, sociology, economics, or business administration.

REHABILITATION INSTITUTE

Director Guy A. Renzaglia, Ph.D. (Minnesota)	1955
Assistant Director Albert Jene Shafter, Ph.D. (Iowa State)	1957
Adjunct Professor E. C. Cline, Ph.D. (Cincinnati)	1957
Lecturer Louis Viececi, B.S. in Ed. (Southern Illinois)	1958-59

The purpose of the Rehabilitation Institute is to co-ordinate and augment the training of college students and other field workers interested in counseling with or providing services for the handicapped. This function is carried out through a program of instruction which co-ordinates the efforts of departments within the University in the developing of rehabilitation counseling curricula, through consultant services to community agencies in the general area of rehabilitation, and through theoretical and practical research bearing on the methods and techniques of rehabilitating the handicapped. Inquiries about the Institute's program should be addressed to the Director.

AIR SCIENCE

The mission of the Air Science Division is the selection, training, and commissioning of selected individuals as second lieutenants in the United States Air Force Reserve. A further aim in the pursuit of this mission is the orientation of all male students and selected female students to citizenship in the Air Age.

ORGANIZATION

The Air Science Division is a senior ROTC unit administered by commissioned officers of the USAF who are detailed to it by the Department of the Air Force with the approval of the University.

The University Corps of Cadets consists of all students pursuing AF ROTC training. Cadets retain their civilian status until they are commissioned as USAF reserve officers at the end of their fourth year of study. Nonveterans are then ordered to three years of commissioned active duty.

Selected basic students may be deferred from the draft. These students must agree to enter the advanced corps if accepted. Further, they must meet the established physical, mental, and academic standards for ultimate commissioning in the Air Force. A deferment may be terminated if the prescribed standards are not maintained.

Each basic student is furnished a uniform and textbooks, for which a deposit of \$5.00 is required. Upon return of this equipment in satisfactory condition, the deposit is refunded. Students are held responsible for damage in excess of normal wear.

Advanced cadets are paid at a daily rate of approximately \$.90 during the University school year and at a monthly rate of approximately \$83.00 for summer training. They are also paid travel expense to and from camp at \$.05 per mile. All advanced students are exempt from the draft.

COURSE OF STUDY

The Air Science course of study is divided into the Basic Course, covering the first two years, and the Advanced Course, covering the junior year, the summer encampment, and the senior year, in that order. The four-year program is designed to provide fundamental training to equip a cadet as a well-rounded junior Air Force officer oriented to the advantages of flight training. The Basic Course is mandatory for all male students who are beginning freshmen, unless they are specifically exempted by the Military Policies Committee. In general, those exempted will include veterans, those who are overage, the physically handicapped, or conscientious objectors. Successful completion of the Basic Course or its equivalent in previous military service is a prerequisite for graduation. Participation in the Advanced Course is voluntary, and is contingent upon selection by a cadet selection board of officers. A student who receives a baccalaureate degree and who satisfactorily completes the Advanced Course will be commissioned a second lieutenant in the USAF Reserve. Outstanding cadets may qualify for Regular Air Force commissions.

In addition to the four-year AF ROTC program offered for academic credit, the Division of Air Science indorses or directly sponsors a number of extracurricular activities. The Arnold Air Society is open to advanced cadets, and is a national professional fraternity. Membership in the Angel Flight, an auxiliary of the Cadet Corps, is open to selected undergraduate women. The Sabre Flight is open to basic cadets. The Rifle Team, while coached and sponsored by the detachment, is a varsity function. Other activities open to cadets are the Honor Guard, the Band, and the Singing Squadron. Cadets may also compete for numerous trophies and awards available to members of the Cadet Corps.

DIVISION OF UNIVERSITY EXTENSION

Dean Raymond H. Dey, Ed.D. (Washington University)	1946
Associate Dean Ernest J. Simon, M.S. (Illinois)	1950
Assistant Dean Benson B. Poirier, Ed.D. (Wyoming)	1958
Field Representative Jess Wilber Turnbow, B.A. (Greenville)	1955

The purpose of the Division of University Extension is to make University credit courses available to people who are not in residence. It calls upon the various instructional agencies of the University for the personnel used to carry out its program.

Southern Illinois University is a member of the National University Extension Association. Its program meets the rigid standards set up by this organization.

The activities of the Division are organized in the following manner in order better to facilitate their carrying out.

EXTENSION CREDIT CLASSES

Scheduling off-campus college credit classes has been a chief function of the Division of University Extension since it first began operating. The program was originally designed for public school teachers and administrators. It has been expanded, however, to serve many other groups. Present policy provides for the scheduling of a class whenever fifteen or more qualified people indicate their intention of enrolling in it, provided that a staff member for that particular subject is available at that time.

A maximum of one-half of the total number of credits required for the bachelor's degree, or ninety-six quarter-hours, may be earned through extension classes, and up to sixteen quarter-hours for the master's degree.

Many courses that are offered in residence are also regularly offered through extension, and, when satisfactorily completed, are given the same credit as residence work. All instructors of these extension courses are

members of the regular University faculty, and the work offered meets all of the requirements of the American Association of Colleges for Teacher Education and the North Central Association of Colleges and Secondary Schools.

CONFERENCES, SHORT COURSES, AND TOURING THEATER

The Division of University Extension assists any campus department in planning and carrying out conferences and workshops, whether they be scheduled on or off campus.

Last year 132 events of this nature were held with a total attendance approximating 25,000 persons. In co-operation with the Theater Department, the Division has for the last three springs arranged for a touring theater to present plays in area communities. In the fall of 1957, plays were presented in twenty-nine communities. The theater is self-supporting, with area organizations sponsoring the plays and earning funds for local civil projects.

The Division also provides a County Institute Service for specialized faculty groups and for teacher groups in general. The programs vary in length from one hour to two days and are sometimes given as workshops for teachers before school opens in the fall.

DIVISION OF TECHNICAL AND ADULT EDUCATION

The Division of Technical and Adult Education serves adults and high school graduates interested in obtaining a college-level program of instruction of a shorter duration than the usual four-year college program, qualifying them for employment at the semiprofessional and technical level in industry and business.

VOCATIONAL-TECHNICAL INSTITUTE

The Vocational-Technical Institute provides for high school graduates one- to two-year college-level terminal programs for training technicians. These programs are designed to prepare men and women to fill the positions in business and industry between the skilled worker and the engineer or professional man.

ASSOCIATE IN TECHNOLOGY PROGRAMS

The two-year associate degree programs in technology are designed to give students broad foundations in special subjects in the technical

field, together with sufficient knowledge of theoretical principles. Courses in general education are included to enable them to gain understanding of problems encountered in living and working in the community.

Graduates are qualified for such positions as estimators, servicemen, factory representatives, technical assistants, draftsmen, engineering aids, commercial artists, and technicians in the fields of electronics, radio and television, building construction, dental laboratory work, industrial woodworking, machine tools and design, printing, automotive mechanics, and drafting and design.

The courses are taught by instructors who have had industrial experience in their respective fields. The laboratories and shops are equipped with modern instruments and machines comparable to those used in industry and reflecting the needs in technical employment. These associate programs in technology are six quarters in length and require a minimum of 104 to 110 quarter-hours' credit for graduation.

A high school graduate who is interested, for example, in a technician level career in the machine tool industry will receive laboratory courses in machine tool practice during each of the six quarters, working on every type of machine found in the modern industrial establishment. He will also receive related technical instruction in such subjects as quality control, materials and processes, garage theory and design, grinding processes, design of small tools and jigs, and fixtures theory and design. Throughout his two-year program he not only follows advanced patterns of study in his chosen field, but also takes courses in English, psychology, government, physics or chemistry, speech, management, labor problems, and other background fundamentals important to an industry that is conscious of its public and personnel relations.

ASSOCIATE IN BUSINESS PROGRAMS

Two-year curricula are also offered in the field of business leading to an Associate in Business degree. The associate degree programs in business include majors in accounting, court reporting, insurance, and two-year programs in the executive, medical, and legal secretarial studies.

Two-year programs in co-operative retailing are offered in apparel, department store, food, and hard line merchandising fields. In these retailing programs students alternate between eight weeks in the classroom and eight weeks of full-time on-the-job employment for forty-eight weeks per year. Retailing establishments throughout Illinois co-operate in the program, employing the students and paying them full wages during the "field work" period. In this intensive two-year curriculum a student learns how to sell different types of variety merchandise, studies store policies, learns show card lettering, learns about color, line, and design in apparel fashion, and takes courses in economics of distribution, textile information, and customer sales relations in his first year. In the

second year emphasis is placed on such subjects as public relations, credits and collections, inventory and control, buying fundamentals, business correspondence, and personnel management. Basic college courses in government, English, speech, and business law are included in the two-year course.

ONE-YEAR CERTIFICATE PROGRAMS

One-year programs are available in the fields of cosmetology (beauty culture), practical nursing, and welding.

The practical nursing program (forty-eight weeks) meets the standards set forth by the Department of Registration and Education of the State of Illinois, as to time, staff, equipment, co-operative hospital facilities, and course content. It includes sixteen weeks of classwork and thirty-two weeks of hospital training in actual bedside care of patients in local affiliated hospitals. During the clinical period limited earnings are possible. A graduate of this program is eligible for the state examination which must be passed satisfactorily to obtain a license as a practical nurse.

The cosmetology program also meets the state of Illinois standards of a licensed school of beauty culture and requires 1,000 hours of training in beauty culture in addition to courses in English, specialized selling, and record keeping. A graduate of this program is eligible for the state examination which must be passed successfully to obtain a license as a beauty operator in the state of Illinois.

ADULT EDUCATION

The Adult Education program consists of noncredit courses in various vocational, technical, and general education fields designed to provide a wide variety of educational opportunities for adults.

Each course ranges in length from eight to twelve weeks, two to three hours weekly. These tailor-made courses are as varied as the interests and needs of the adults served. Courses designed to assist persons to do their jobs better or to gain skills and technical knowledge for advancement to better positions are offered for coal miners, plumbers, carpenters, construction foremen, machinists, auto mechanics, retail and office workers, nurses, bankers, insurance brokers, union business agents, welders, sales personnel, secretaries, accountants, office clerks, and farmers. The Adult Education program also includes many intensive short courses during each year. Among these are kiln-drying courses for hardwood lumbermen, a two-week cosmetology course, a series of one-week courses for Rural Electrification linemen and Rural Electrification office managers, and Chartered Life Underwriters, Chartered Property, and Casualty Insurance specialized courses.

Adult programs consisting of a series of courses geared to the needs of a particular group are also available. The two-year Industrial Management program in the East St. Louis, Granite City, and Alton area, co-sponsored by the East Side Manufacturers' Association, is an example of this type of program.

The adult education courses are taught by regular staff members obtained from every division and school of the University, as well as carefully selected specialists from the ranks of business, industry, and the professions.

RESIDENCE CENTERS

SOUTHWESTERN ILLINOIS RESIDENCE OFFICE

Executive Dean Harold Wentz See, Ed.D. (Indiana)	1955
Dean of Instruction William T. Going, Ed.D. (Michigan)	1957
Head of Industrial and Adult Education Chelsea Bailey, M.Ed. (Cincinnati)	1957-59
Business Officer Caswell E. Peebles, B.S. (Illinois)	1957
Associate Registrar John H. Schnabel, Ed.D. (Indiana)	1957
Associate Professor Raymond Jurgen Spahn, Ph.D. (Northwestern)	1957

ALTON RESIDENCE CENTER

Director John J. Glynn, Ph.D. (St. Louis University)	1957
Director Eric R. Baber, Ed.D. (Michigan State)	1957-58
Assistant Professor Howard Vaughn Davis, Ed.D. (Washington University)	1957
Assistant Professor Alfred Garrett Harris, Ph.D. (Ohio State), Librarian	1957
Assistant Business Officer Morris F. Carr, M.S. (Illinois)	1958
Assistant Registrar David Reynolds Van Horn, M.S. (Oklahoma State)	1957

EAST ST. LOUIS RESIDENCE CENTER

Director James D. Turner, Ph.D. (Indiana)	1958
Assistant Professor Frederick A. Forrest, Ph.D. (Stanford), Associate Librarian	1958
Assistant Professor Floyd R. Meyer, Ed.D. (Nebraska), Librarian	1957-58
Instructor Thomas D. Evans, M.S. (Southern Illinois)	1957
Assistant Business Officer Lionel Dee Howell, M.S. (Fort Hays)	1958
Assistant Registrar Gene Clyde Turner, M.S. (Southern Illinois)	1958

BELLEVILLE RESIDENCE CENTER

Director Leonard Wheat, Ph.D. (Columbia)

1957

The Southwestern Illinois Residence Office is located in the Broadview Hotel in East St. Louis. Residence centers have been established in Alton, Belleville, and East St. Louis.

ALTON RESIDENCE CENTER

The Alton Residence Center provides instruction for undergraduates and graduate work for individuals desiring to complete work for a master's degree on the Carbondale campus. Curriculum emphasis, for undergraduate students, is in liberal arts with a strong concentration in the sciences and technical subjects, business administration and secretarial science, teacher preparation, and nursing. Classes are available for both full-time and part-time students in day and evening sessions.

BELLEVILLE RESIDENCE CENTER

The Belleville Residence Center provides an undergraduate and graduate program for students interested in a degree in teacher education. Students taking work at the Belleville Center must complete at least 50 per cent of their work toward an undergraduate degree on either the Carbondale campus or at the Alton or East St. Louis Residence Centers. Graduate students must complete at least 50 per cent of their work for the master's degree on the Carbondale campus.

All classes at the Belleville Residence Center are scheduled for the late afternoons and evenings.

EAST ST. LOUIS RESIDENCE CENTER

The East St. Louis Residence Center, located in the old East St. Louis High School Building, will provide a full four-year undergraduate program to residents of the area. In addition, a limited evening program of upper-level courses is available for in-service teachers.

Curriculum emphasis is in liberal arts with a strong concentration in science and technological subjects, business administration, teacher education, and nursing. Classes are available for both full-time and part-time students in day and evening sessions.

Persons desiring further information about the Alton Residence Center should address their inquiries to the Registrar's Office, Alton Resi-

dence Center. Inquiries concerning the Belleville Residence Center and the East St. Louis Residence Center should be addressed to the Southwestern Illinois Residence Office, Suite 227, Broadview Hotel, East St. Louis, Illinois.

SUMMARY OF AVAILABLE MAJORS IN THE UNIVERSITY

The following summary of majors offered by the various academic units of the University may be helpful to potential students in selecting a major. Undergraduate students who have not selected a major field of study should register in the College of Liberal Arts and Sciences as undecided.

GRADUATE SCHOOL

MAJORS OFFERED:

Anthropology	Instructional Materials
Art	Journalism
Biological Sciences	Mathematics
Botany	Microbiology *
Business	Music
Business Education	Philosophy
Chemistry	Physical Education
Design	Physical Sciences
Economics	Physics
Educational Administration and Supervision	Physiology
Elementary Education	Psychology *
English	Recreation and Outdoor Education
Foreign Languages	Rehabilitation Counseling
Geography	Secondary Education *
Geology	Social Studies Field Major
Government *	Sociology
Guidance and Counseling	Special Education
Health Education	Speech *
History	Speech Correction *
Home Economics	Theater
Industrial Education	Zoology *

* Doctoral major also offered in this field.

COLLEGE OF LIBERAL ARTS AND SCIENCES

MAJORS OFFERED:

Anthropology	Home Economics *
Art *	Mathematics
Botany	Microbiology
Chemistry	Music *
Economics *	Philosophy
English	Physics
Foreign Languages	Physiology
Geography	Psychology
Geology	Sociology
Government	Speech *
Health Science	Zoology
History	

PRE-PROFESSIONAL PROGRAMS OFFERED:

Pre-Dentistry	(3 or 4 years)	Pre-Physical	
Pre-Law	(3 or 4 years)	Therapy	(2 or 3 years)
Pre-Medicine	(3 or 4 years)	Pre-Public Health	(3 or 4 years)
Pre-Occupational		Pre-Theological	(2 to 4 years)
Therapy	(2 or 3 years)	Pre-Veterinary	
Pre-Pharmaceutical	(2 to 4 years)	Science	(3 or 4 years)

* Not professional majors.

COLLEGE OF EDUCATION

MAJORS FOR THOSE PLANNING TO TEACH IN ELEMENTARY SCHOOL:

Art	Music
Elementary Education	Physical Education
Foreign Languages	Special Education
Health Education	Speech Correction
Kindergarten-Primary	

MAJORS FOR THOSE PLANNING TO TEACH IN HIGH SCHOOL:

Art	Industrial Education
Botany	Journalism
Business	Mathematics
Chemistry	Music
English	Physical Education
Foreign Languages	Physics
Government	Social Studies
Health Education	Speech Education
History	Zoology
Home Economics	

SCHOOL OF AGRICULTURE

MAJORS OFFERED:

Animal Industries	Plant Industries
Forestry	Vocational Agriculture
General Agriculture	

PRE-PROFESSIONAL PROGRAMS OFFERED:

Pre-Veterinary Science (where emphasis on agriculture is desired)
Pre-Wood Technology

SCHOOL OF BUSINESS

MAJORS OFFERED:

Accounting	Marketing
Economics	Secretarial Science
Management (General, Financial and Personnel)	

SCHOOL OF COMMUNICATIONS

MAJORS OFFERED:

Journalism	Speech
Photography	Speech Correction
Printing Management	Theater
Radio-TV	

SCHOOL OF FINE ARTS

MAJORS OFFERED:

Art	Music
Design	

SCHOOL OF HOME ECONOMICS

MAJORS OFFERED:

Home Economics (with specialization in Apparel Design, Clothing and Textile Merchandising, Dietetics, Foods in Business, Home Adviser Program, Homemaking, Institutional Management, or Smith-Hughes Home Economics Education)

DEPARTMENT OF APPLIED SCIENCE

MAJORS OFFERED:

Applied Science (including a pre-engineering program of 2 and/or 3 years)

DEPARTMENT OF INDUSTRIAL EDUCATION

MAJORS OFFERED:

Industrial Science (with specialization in Industrial Design, Industrial Personnel, Industrial Planning, or Metal Processing)

DEPARTMENT OF NURSING

MAJOR OFFERED:

Nursing

INSTITUTES

The institutes listed below offer programs with courses drawn from several departments. Admission to these programs must be approved by the director of the institute.

Community Development Institute

Labor Institute

Latin American Institute

Rehabilitation Institute

Small Business Institute

VOCATIONAL-TECHNICAL INSTITUTE

PROGRAMS IN BUSINESS

(Two-Year)

Accounting

Court Reporting

Secretarial

Co-operative Medical

Executive Secretarial

Legal Secretarial

Co-operative Retailing

Apparel and Department Store

Food Merchandising

Hard Line Merchandising

(One-Year)

Bookkeeping Clerical

Calculating Machines

Stenographic

PROGRAMS IN TECHNOLOGY

(Two-Year)

Architectural Drafting and Design

Automotive

Building Construction

Commercial Art

Dental Laboratory

Industrial Wood

Machine Drafting and Design

Machine Tool

Printing

Radio and Television

(One-Year)

Cosmetology

Practical Nursing

Welding

SOUTHWESTERN ILLINOIS RESIDENCE CENTERS

Curriculum emphasis at both the Alton and East St. Louis Residence Centers is in liberal arts, with a strong concentration in the sciences and technical subjects, business administration and secretarial sciences, teacher education, and nursing. Detailed information about specific majors may be obtained from the director of each residence center.

The Belleville Residence Center provides undergraduate and graduate courses for students interested in degrees in teacher education. All classes at the Belleville Residence Center are scheduled during late afternoon or evening.

Facts for the Potential Student

ADMISSION TO THE UNIVERSITY

All inquiries concerning admission to Southern Illinois University should be directed to the Admissions Office. Applications for admission are accepted any time during the calendar year. Applications should be initiated at least thirty days in advance of the desired entrance date to permit the necessary work of processing to be completed. High school seniors should apply for admission at the beginning of the last semester of the senior year.

Admission to Southern Illinois University constitutes admission to a particular college or instructional unit except in the case of a person who is admitted as an unclassified student. A student may also indicate the particular major field in which he is interested. Should he be undecided, he should enroll in the College of Liberal Arts and Sciences.

ADMISSION OF FRESHMAN STUDENTS

To be eligible for admission, a person must be either a graduate of a recognized high school or at least twenty-one years of age. A person twenty-one years of age and not a high school graduate is required to pass the General Educational Development Test within the first period of his attendance at Southern. A military veteran who is not a graduate of a recognized high school or is not twenty-one years of age may qualify for admission by passing the G.E.D. Test. A high school graduate who did not rank in the upper three-fourths of his high school graduating class is granted probational admission to the University.

ADMISSION OF TRANSFER STUDENTS

To be considered for admission to advanced standing, a student must present a full record of his previous academic work. This record includes evidence of graduation from high school and transcripts and evidence of good standing from every college and university attended.

Admission by transfer does not necessarily mean that all credits pre-

sented for transfer will be accepted. Transferable credits are determined through evaluation at the time of presentation. In all cases, at least three-fourths of transferable credits from each institution must be "C" quality or above.

A transfer student is subject to this University's scholarship rules. A case involving admission on probation will be referred to the dean of the instructional unit in which the student desires to enroll before final admission is granted.

A transfer student dropped for poor scholarship from the last institution attended who would also have been dropped under Southern's scholarship rules is not eligible for admission to Southern until at least one quarter has elapsed from the date of suspension. A transfer student dropped for any reason other than academic failure must be cleared by the Office of Student Affairs before admission will be granted.

A transfer student must take the Guidance Test Battery or submit to the Testing Service the results of such tests taken at another institution.

ADMISSION OF FOREIGN STUDENTS

The foreign student must submit, in addition to the regular admission papers, a questionnaire for foreign students indicating the years of attendance of all previous schooling. An English proficiency examination, which can be taken at the American Consulate Office or a similar agency operated by the American Government, must be submitted before the applicant can be considered for admission.

The foreign student should give evidence of having adequate financial support before his arrival on campus. The University does not assume responsibility for a student who arrives with inadequate resources.

ADMISSION OF FORMER STUDENTS

A former student of Southern not in attendance on the campus at the close of the quarter preceding application for admission must apply to the Admissions Office for re-entrance prior to registration.

A former student who is not in good standing must clear his status before the Admissions Office will prepare his registration permit. It is advisable for such a student to initiate re-entrance clearance early so that all inquiries may be answered and so that the applicant can find time to complete any requirements that may be imposed upon him.

ADMISSION OF UNCLASSIFIED STUDENTS

A mature person who wishes to register for particular courses offered in many of the departments of the University without undertaking all of the regular plans of study and without becoming a candidate for a degree

may be admitted as an unclassified student. Such a student must present satisfactory evidence that he is prepared to take advantageously the work required.

Application for admission as an unclassified student should be made at the Office of Admissions. Such a student must sign a statement indicating that he is not a degree student and that credit received cannot be applied toward a degree at this University while he is enrolled as an unclassified student.

A person desiring to register for only one or two courses may do so in the Office of Admissions. A person desiring to take more than this is referred to the regular academic adviser for unclassified students. A person who has already received a bachelor's degree and wishes to register as an unclassified student is referred to the Graduate School Office for registration.

ADMISSION OF GRADUATE STUDENTS

A qualified student may apply for admission to the Graduate School any time during the calendar year. Application forms may be obtained from either the Admissions Office or the Graduate School Office. Official admission to the Graduate School will not be granted until complete transcripts of all previous college work are on file in the Admissions Office. Transcripts must reach the Admissions Office at least one month prior to the time the applicant expects to enter Southern.

A student who wishes to enter the Graduate School immediately after graduation may submit during the final quarter or semester of undergraduate work a transcript showing the courses he is taking, together with a statement from his registrar that graduation will follow successful completion of his current enrollment.

An undergraduate student who is within one term's work (sixteen quarter-hours) of meeting requirements for the bachelor's degree may take courses for graduate credit by applying for admission to the Graduate School and obtaining approval for his proposed major from the departmental chairman. An undergraduate who takes such courses for graduate credit must also obtain the approval of the Dean of the Graduate School at the time of registration.

A student who holds the bachelor's degree and who does not wish to become a candidate for a higher degree or for another bachelor's degree but who wishes to take work in the University should apply for admission as an unclassified graduate student.

ADMISSION TO THE FIRST YEAR OF GRADUATE STUDY

Admission to the Graduate School does not constitute admission to a particular major or to candidacy for a degree.

Unconditional admission to the Graduate School is granted to a

graduate of a fully accredited college or university whose undergraduate average is 3.2 or above on a 5-point grading scale or the equivalent. Grades for previous graduate work must be "B" or above.

A graduate of an institution of limited accreditation who has a 3.2 average or above may be granted conditional admission, depending upon the merits of the institution concerned.

ADMISSION TO ADVANCED GRADUATE STUDY

Admission to the Graduate School does not constitute admission to a particular major or to candidacy for a degree.

Admission to the Sixth-Year Specialist's Certificate Program is based on an applicant's previous academic record, his educational experience, and his proposed objective.

Unconditional admission to advanced graduate work will be granted to a student who holds an approved master's degree and whose average in graduate work is 4.5 or above on a 5-point grading scale or the equivalent.

Conditional admission to advanced graduate work will be granted to a student who holds an approved master's degree and whose average in graduate work is between 4.25 and 4.5 on a 5-point grading scale or the equivalent.

ADMISSION TO THE RESIDENCE CENTERS

A student planning to enter, or re-enter, Southern at one of the residence centers should direct his inquiry concerning admission to the Admissions Office at the appropriate residence center. Admission to the Belleville Residence Center is handled through the Admissions Office at the East St. Louis Residence Center. Admission requirements are the same for the residence centers as for the Carbondale campus.

ADVISEMENT AND REGISTRATION

Admission to the college or university of the student's choice is an important step toward a college degree. After the student has been admitted he should talk with an adviser about his educational plans and complete his registration for the quarter he expects to enter Southern.

To insure that an undergraduate student is properly advised concerning the choice of a course of study which will fulfill the requirements of the University and prepare him for his chosen career, academic advisement has been made the special responsibility of a selected group from the teaching faculty. Each college and school of the University has a chief academic adviser and a number of assistant advisers.

Once a student has been admitted to the University, the Office of Student Affairs is notified and information concerning orientation is sent to each new student. Each fall quarter a New Student Week is held and during the other quarters a special meeting for all new students is held on the first day, with other meetings planned during the term.

New Student Week has a twofold purpose: (1) to help each new student feel that he is a part of Southern Illinois University and (2) to make each new student ready to start classes.

At Southern, a program of advance registration has been in operation for a number of years. The period of time from the third through the tenth week of each regular quarter and from the third through the seventh week of the summer session is used for advisement and registration for the following quarter. For example, a student who plans to attend Southern during the winter quarter may register between the third and the tenth week, inclusive, of the fall quarter. A new student may also register on the opening day of each quarter. All students are urged to take advantage of the advance registration period.

More detailed information about the dates for advisement and registration may be obtained from the Schedule of Classes prepared for each quarter, a copy of which may be obtained from the Registrar's Office.

A new student must have an appointment for advisement and registration during any of the advance registration periods. The steps in this procedure are given below:

1. A new student should check to be sure that he has been admitted to the University.

2. He should write for an appointment to register. An undergraduate student (except one who plans to enroll in the Vocational-Technical Institute) should write to the Academic Advisement Center, Southern Illinois University. Included in the letter should be the date and time the student plans on coming to the campus, the academic unit in which he plans to enroll, and the name of his major subject. A student who plans to enroll in the Vocational-Technical Institute should write to the Director of the Vocational-Technical Institute, Southern Illinois University, Carbondale.

3. A graduate student should write to the Graduate School Office for an appointment.

RESIDENCE CENTER ADVISEMENT AND REGISTRATION

The residence centers follow a different procedure in advising and registering of students from the one described above for the Carbondale campus. Students planning to attend one of the residence centers should write for a Schedule of Classes prepared each quarter, a copy of which

may be obtained from the Registrar's Office at the appropriate center. The Schedule will contain information about advisement and registration.

CHANGES AND WITHDRAWALS

A prescribed procedure must be followed by any student desiring to change his academic program or to withdraw from the University while the period for which he is registered is still in progress. Failure to follow the official procedure will result in academic penalty.

To add or drop a course an undergraduate student must initiate a program change with his academic adviser. In addition, the approval of other officials may be required, depending upon the specific conditions for a specific program change. A program change must be submitted to the Sectioning Center and Registration Center for final action.

Within the first week of a quarter a student may drop a course by obtaining proper approval. If a student desires to drop a course during the second, third, or fourth weeks of a quarter, the change will be approved only when the reasons appear valid; but the student will not usually be permitted to drop a required course. If a student desires to drop a course after the fourth week, the change will be approved only under unusual conditions. In the last three weeks of a quarter, changes will be approved only in extreme emergencies.

The same rules will govern program changes in the eight-week summer session, except that after the third week approval will be given for changes only in case of unusual conditions.

A student desiring to change his academic unit or his major should do so at the time he next registers after having made his decision. A change in academic unit or a change in majors within an academic unit is made with the student's academic adviser.

A student is considered officially registered after he has cleared his payment of fees at the Bursar's Office. If a student then finds he cannot attend college or, if after attending for a period of time, finds he cannot continue, he must report to the Office of Student Affairs to initiate official withdrawal action.

FEES AND OTHER EXPENSES

The fees charged students are established by the Board of Trustees and are subject to change whenever conditions make changes necessary. Fees apply to the residence centers as well as to the Carbondale campus. At the present time, the fees charged for a quarter during the regular year are as follows:

Tuition	\$35.00*
Student Activity Fee	9.50
Student Union Building Fund Fee	5.00
Book Rental Fee	5.00
<hr/>	
Total	\$54.50

In addition to the above fees, a student is subject to certain other charges under the conditions listed below:

1. An AF ROTC equipment deposit of \$5.00 which is assessed the first time a student registers for a regular quarter if he is taking ROTC courses. This \$5.00 is refunded to him at the end of the year less any charge for lost equipment.

2. A late registration fee, which is \$2.00 for the first day and which increases \$1.00 each day to a maximum of \$5.00 when a student registers after the regular registration period is over.

3. A \$1.00 charge for the completing of an incomplete course.

4. A \$2.00 program change charge whenever a student changes his program from the one for which he originally registered when the change is made for reasons other than for the convenience of the University.

5. A graduation fee of \$17.00.

6. A Graduate Aptitude Test fee of \$3.00 charged a graduate student when he takes the Graduate Aptitude Test.

Graduate student fees are the same as above with the addition of a matriculation fee of \$5.00 for graduates of schools other than Southern.

Students holding valid state scholarships are exempt from the above fees to the extent provided by the terms of the specific scholarship held. An Illinois State Teacher Education Scholarship exempts the student from the paying of tuition, the student activity fee, and the graduation fee. An Illinois Military Scholarship exempts the student from the paying of those same fees. An Illinois State Scholarship exempts the student from fees in accordance with the terms of the individual scholarship.

The student activity fee includes the fees for limited hospitalization, entertainment, athletics, the *Obelisk*, the *Egyptian*, and such other privileges as may be provided.

A part-time resident student taking eight (or fewer) quarter-hours during a regular session pays half tuition and half the book rental fee. In addition, such a student pays the total student union building fund fee and has an option on paying the student activity fee.

Faculty members and University civil service employees taking courses are not charged tuition and activity fees. They pay, however, the appropriate book rental fee of \$5.00 or \$2.50, depending upon whether

* Out-of-state students (non-Illinois residents) pay \$83.00 tuition rather than \$35.00.

they are taking more than eight hours or eight hours or fewer. They also pay the student union building fund fee.

Extension course fees are \$5.00 per quarter-hour plus a \$1.05 book rental fee per course.

Adult education course fees are computed on the basis of approximately \$.50 per contact hour.

Other charges which a student may incur are those for departmental field trips, library fines, and excess breakage.

A student is entitled to a free transcript of his University record each time he has added academically to his record through work taken at this University, provided he has fulfilled all his financial obligations to the University. There is a charge of \$1.00 for each additional transcript.

PAYMENT OF FEES

Fees are payable quarterly during the academic year. Students who register in advance receive a fee statement by mail and may pay either by mail or in person at the Bursar's Office in accordance with instructions accompanying the fee statement. Students who do not register in advance or who register during the last week of the advance registration period must pay fees at the time of registration.

Refunding of fees is possible only if a student has withdrawn from school, officially, within the first ten days of a quarter and only if the application for a refund is received in the Registrar's Office within ten school days following the last regular registration day. This means that for quarters starting on a Monday the withdrawal from school must have been officially made within the first two calendar weeks of the quarter and the refund application received by Monday of the third week. No refunding of fees is made for withdrawals occurring after the first two weeks. If a student registers on a full-fee basis and then reduces his program to eight quarter-hours or fewer during the first ten days of a quarter he may receive a partial refund of his tuition and book rental fees.

ESTIMATED EXPENSES FOR THREE QUARTERS

Tuition and Fees\$163.50

This includes book rental, hospitalization, some entertainment, admission to games, the school yearbook (the *Obelisk*), and the school newspaper (the *Egyptian*). Out-of-state fees are an additional \$144.00 for three quarters.

Room Rent\$175.00

Room rent is computed at the average rate of \$4.00 to \$5.50 per week for 36 weeks.

Food	\$575.00
Food is estimated at \$2.25 per day for 252 days.	
Miscellaneous	\$175.00
This item includes school supplies, dates, etc. It is estimated by students as ranging from \$3.50 to \$5.50 per week.	
Total Estimated Yearly Average Expenses	\$1088.50

FRESHMAN CONVOCATIONS

All freshman students are required to register for freshman convocations. The freshman convocations program has been planned as an opportunity for Southern's freshman students to see and hear outstanding persons as a part of their general education and cultural development. Freshman students are required to attend a minimum of nine freshman convocations during each quarter of the year. Attendance is checked each week, and three quarters of satisfactory attendance meets the requirement.

MOTOR VEHICLES

During the 1958-59 school year freshman and sophomore students at Southern Illinois University campuses are not permitted to use motor vehicles. During the 1959-60 school year freshmen, sophomores, and juniors will not be permitted to use motor vehicles. A student may petition to the Office of Student Affairs to be classified as an exception to this rule.

Full details of the administrative regulations on use of motor vehicles on the Southern Illinois University campuses are distributed to enrolled students prior to the beginning of each academic year.

CLASS STANDING

An undergraduate student is classified as a freshman, sophomore, junior, or senior, depending upon the number of hours he has successfully completed toward the degree. A freshman is a student who has completed less than 48 hours; a sophomore from 48 through 95; a junior from 96 through 143; and a senior 144 or more.

A student who has completed one bachelor's degree and is seeking a second bachelor's degree is registered as a senior in the academic unit in which he is seeking the second degree. An undergraduate student not registered in one of the academic units is registered as an unclassified student. Such a student must sign a statement indicating that he is not a

degree student and that the credit received cannot be applied toward a degree at this University while he is enrolled as an unclassified student.

A registrant in the Graduate School is classified as a graduate student. A regular graduate student is one who is working toward an advanced degree from this University. A graduate student wishing to take graduate or undergraduate courses without their being counted toward a degree at this University is registered as an unclassified graduate student.

COURSE NUMBERS

The course numbering system is as follows:

000-099	.....for courses not properly falling within the following levels
100-199	.....for freshmen
200-299	.....for sophomores
300-399	.....for juniors and seniors
400-499	.....for seniors and graduates
500 and above	.....for graduate students only

Ordinarily, students are not permitted to take courses above their classification; that is, a freshman should register for freshman courses, and only in rare instances for sophomore courses.

UNIT OF CREDIT

One quarter-hour represents the work done by a student in a lecture course pursued for a regular quarter one hour a week, and, in the case of the laboratory and activity courses, the usual additional time. One quarter-hour of credit is equivalent to two-thirds of a semester hour.

ACADEMIC LOAD

The normal class load for a student is sixteen quarter-hours, with a maximum of eighteen hours. For the eight-week summer session, the normal load is twelve quarter-hours.

A student with a 4.25 average or above for the preceding quarter may be allowed by the dean of his college or school to take as many as twenty-one hours. In no case may a student carry, or be credited with, more than twenty-one hours in any quarter. In the eight-week summer session, a load above twelve hours regularly requires a 4.25 average and the approval of the dean of the college or school. In no case may a stu-

dent carry or be credited with more than fourteen hours during a summer session.

A student on probation may not take more than fourteen hours. In the summer session, a student on probation may not take more than nine hours.

A student is considered a full-time student when he carries twelve or more hours during a regular quarter and eight or more hours during a summer session.

Students deferred under the classification of I-S (C) or II-S must complete satisfactorily at least 48 hours (45 hours for freshmen) during three successive quarters. (Summer sessions are not considered regular quarters.) More detailed information regarding the academic loads of deferred students may be had in the bulletin *Selective Service Scholastic Deferrals as Applied at Southern Illinois University, March, 1953*, which is available in the Office of the Registrar or the Office of Student Affairs.

Veterans enrolled under Public Law 550 are subject to the following regulations regarding the academic load required for proportional subsistence for a regular quarter:

Type of Enrollment	Number of Hours Required	
	Undergraduate	Graduate
Full-time enrollment	14	10
$\frac{3}{4}$ -time enrollment	10-13	8-9
$\frac{1}{2}$ -time enrollment	7-9	5-7
Less than $\frac{1}{2}$ -time enrollment	6 or less	4 or less

GRADING SYSTEM

Grades are expressed in letters as follows:

	(Per quarter-hour)
A, Excellent .....	.5 grade points
B, Good .....	.4 grade points
C, Satisfactory (this is intended to be the average grade) .....	.3 grade points
D, Poor, but passing .....	.2 grade points
E, Failure; all work completed including final examination, but failed .....	.1 grade point
W, Course not completed; includes incomplete records of all kinds (except "deferred" for graduate students)	0-5 grade points

The number of weeks the student has attended is indicated by a number; if he attended more than four weeks, this is to be followed by the grade he was making at the time of withdrawal. For example: W⁸B.

DEF or DF, Deferred grade; work not complete. Given only for graduate students.

AU, Course taken on audit basis. No grade or credit hours earned.

CR, Credit. No letter grade assigned.

A grade given at the end of a course is final and may not be raised by additional work.

Any student who withdraws from a class without following the prescribed procedure will receive a grade of "W-E" in the course regardless of when the withdrawal occurs. A withdrawal from a course is initiated with the student's academic adviser.

Courses from which a student has withdrawn officially will be shown on his record as "W." Withdrawal within the first four weeks of the quarter will not carry a grade. Courses from which the student has withdrawn after the first four weeks will be recorded as "W" and must carry a grade. Withdrawals after the first three weeks of an eight-week summer session or after the first six weeks of a sixteen-week extension course must carry grades. Exceptions to this rule may be permitted for unusual circumstances, but only through written approval of the student's academic dean.

Any change of grade, as upon the completion of a "W," must be reported within a year after the close of the quarter in which the course was taken. A fee of one dollar is charged for the completion of a course marked "W," unless the fee is waived on recommendation of the University physician. A student who for some reason must miss the final examination may not take an examination before the one scheduled for the class. In this case, "W," along with the grade earned at the time, is recorded by the instructor. The final examination may be taken at a later date, within one year. A complete record of all changes in grades will appear on the official transcript.

The official record of a student's academic work is maintained in the Registrar's Office.

HONORS

In recognition of high scholarship, an Honors Day Convocation is held each spring. A candidate for the bachelor's degree in June or August who has maintained a grade-point average of 4.25 or more for all of his work through the winter quarter of his senior year receives an honor pin. A transfer student must have entered Southern Illinois University by the beginning of the junior year and have maintained the 4.25 average in order to qualify. Each junior having a 4.25 grade-point average and each sophomore and freshman having a 4.50 grade-point average is also

honored at the Convocation but does not receive a pin. To be eligible, a student must be attending full-time.

For Honors Day purposes a senior is a student who will graduate in June or August; a junior must have more than 121 quarter-hours at the end of the preceding winter quarter but will not graduate during the year; a sophomore must have 48 to 120 quarter-hours at the end of the preceding winter quarter; a freshman must have 32 to 47 quarter-hours at the end of the preceding winter quarter.

Graduating seniors are also recognized at Commencement on the graduation program, and their diplomas designate honors granted on the following basis:

Highest Honors	Point average of 4.90 or higher
High Honors	Point average of 4.75–4.89
Honors	Point average of 4.50–4.74

HONORS COURSES

A student with a 4.5 grade-point average at the end of his second year is eligible to apply for honors work. In exceptional cases, students with less than 4.5 may be eligible if the Honors Work Program Committee approves. The Committee is the final judge if doubt arises about the eligibility of a student to enter honors courses.

Each honors student does his work under the supervision of an adviser, selected in conference between the student and the department chairman or chairmen involved, and acceptable to the Honors Committee. Secondary advisers may at times be required. The student's election of an honors program must also have the approval of his regular adviser.

The adviser and the department, in consultation with the student, will prepare for the student an honors program, which, before being put into effect, must have the approval of the chairman of the Honors Committee and the appropriate academic dean.

The candidate for honors will complete a series of honors courses, and a final honors examination. These honors courses are undertaken only at the beginning of a quarter and are counted in the total credit-hour load, subject to the usual regulations. At the end of each quarter's work the adviser will report to the Registrar the grade and credit hours of the honors student.

The student must have weekly conferences or the equivalent with his adviser, who will keep a written record of the student's progress. The student must complete nine quarter-hours of honors work and may be granted up to eighteen quarter-hours. The amount of credit is determined by the adviser and the chairmen of the departments concerned. All arrangements about credit should be clearly understood by student and

adviser at the outset. If a student abandons the program before completing it, he will receive regular course credit for the work that he has done.

At least one month before the convocation at which the student expects to receive his degree he will be given a final honors examination covering the work done under the honors program. There will be at least three examiners, including the adviser, the chairmen of the departments concerned, or their representatives, and such other faculty members as represent fields of study included in the honors work. A favorable vote by a majority of the examining committee is required to pass the candidate.

A student who has satisfactorily completed the requirements of honors work is so reported to the Registrar. At the convocation when the successful honors student is to receive his degree, special recognition of his achievement will appear in the official printed program and upon the student's diploma.

SCHOLASTIC PROBATION

In order to warn students when they are not meeting the graduation requirement of a "C" average, they are placed on scholastic probation.

A freshman or sophomore goes on scholastic probation at the end of the quarter in which his over-all grade points fall below the "C" average by more than fifteen points. A freshman or sophomore on scholastic probation who does not make a "C" average for a given quarter will be dropped from his academic unit. At that time he will be referred to the Office of Student Affairs for counsel concerning future academic possibilities. He is restored to good standing when his over-all grade points rise again to within fifteen points of a "C" average.

A junior or senior goes on scholastic probation at the end of any quarter in which his over-all average falls below "C." A junior or senior on scholastic probation who does not make a "C" average for a given quarter will be dropped from his academic unit. At that time he will be referred to the Office of Student Affairs for counsel concerning future academic possibilities. He is returned to good standing when his over-all average is again a "C" or better.

A student on scholastic probation who makes a "C" average or better for a given term is permitted to re-register for the next term without special permission. A student who has been dropped on the basis of the University's scholastic probation rules and who desires to be readmitted must initiate action through the Admissions Office.

In order to participate in extracurricular activities, any student on scholastic probation must submit a petition for consideration by a special committee. This request is to be filed with the Supervisor of Student Activities, Office of Student Affairs.

A transfer student should note that the rules governing scholastic probation apply to his record made only at Southern as well as to his over-all record. For example, a junior student who transferred in good standing will be placed on probation if he fails to maintain a "C" average for his work at Southern as well as if he fails to maintain a "C" average for his total work.

DEGREES GRANTED

Southern Illinois University grants the following degrees in June and August each year:

Associate in Art	Bachelor of Music Education
Associate in Business	Master of Arts
Associate in Technology	Master of Fine Arts
Bachelor of Arts	Master of Music
Bachelor of Science	Master of Music Education
Bachelor of Science in Agriculture	Master of Science
Bachelor of Science in Education	Master of Science in Education
Bachelor of Music	Doctor of Philosophy

REQUIREMENTS FOR THE BACHELOR'S DEGREE

Each candidate for the degree must complete 192 hours of credit in approved courses. At least 64 must be in senior college courses, of which 48 must be earned in residence at Southern. Each student must have a "C" average, and grades not lower than "C" in subjects aggregating at least three-fourths of the work. A "C" average is required in the major subject. These averages are required for the credit made at Southern as well as for the total record.

The following requirements should be met by degree candidates of all colleges and schools within the first two years of attendance (for the Bachelor of Music and the Bachelor of Music Education degrees, the requirements are somewhat different and may be found in the School of Fine Arts Bulletin).

SOCIAL STUDIES

A student must have twenty quarter-hours in the social studies with five hours in each of four of the following five departments: Economics, Geography, Government, History, and Sociology. Students are expected to satisfy this requirement by selecting from the following courses:

ECONOMICS

205-5. SURVEY OF ECONOMIC PRINCIPLES.

GEOGRAPHY

100-5. GLOBAL GEOGRAPHY. A world regional survey in which significant differences from place to place are observed and analyzed. Basic factors of population distribution. Tracing of development of man's working connections with the land and its resources.

GOVERNMENT*

101-5. PROBLEMS OF AMERICAN DEMOCRACY I. A general survey of government including national and state constitutional principles as required by Illinois Law.

HISTORY*

101-3, 102-3, 103-3. SURVEY OF WORLD CIVILIZATION. Courses designed primarily for freshmen, as a survey of the development and evolution of civilization; the foundation for further courses in the field of history. One term devoted to each of the following periods: ancient, medieval, and modern.

201-5. HISTORY OF THE UNITED STATES TO 1865. Courses 201 and 202 designed to provide a general survey of the political, social, and economic development of the United States. Course 201 includes national and state constitutional principles as required by Illinois Law. Prereq, sophomore standing.

202-5. HISTORY OF THE UNITED STATES SINCE 1865. A continuation of 201.

(Two quarters of 101, 102, 103 meets the requirement except in the College of Education where five hours of United States history are required for graduation. History 201 or 202 will meet this requirement.)

SOCIOLOGY

101-5. INTRODUCTORY SOCIOLOGY. Scientific study of human society and the various means by which individuals and groups adjust to each other and to their physical and social environment.

* The state of Illinois requires that American patriotism and the principles of representative government, as enunciated in the American Declaration of Independence, the Constitution of the United States of America, and the Constitution of the State of Illinois, and the proper use and display of the American flag shall be taught in all public schools and other educational institutions which are maintained in whole or in part by public funds, and that no student shall receive a certificate of graduation without passing a satisfactory examination upon such subjects. Government 101 and 300 and History 201 and 330 offer such instruction. (Students preparing to teach should also check with the College of Education concerning the state certification requirements).

HUMANITIES

Eighteen quarter-hours are required in the humanities. Of these eighteen hours, nine must be English 101, 102, and 103, with six additional hours selected from English 205, 206, 209, 211, or 212. The remaining three hours are to be Art 120 or Music 100. A student is also advised to complete the foreign language requirement for the bachelor's degree within the first two years when he is taking a program requiring a foreign language.

ENGLISH

101-3, 102-3, 103-3. FRESHMAN COMPOSITION.

105-3 to 6. ENGLISH AS A FOREIGN LANGUAGE. Open to foreign students only. Maximum of three hours to be earned per quarter; graduate students receive no credit.

205-3. INTRODUCTION TO POETRY. Emphasis on technique, type, and period.

206-3. INTRODUCTION TO DRAMA. The form, artistry, and ideas of various plays from most of the notable literary periods.

209-3. INTRODUCTION TO WORLD LITERATURE. A reading of masterpieces of European literature of various periods.

211-3. INTRODUCTION TO FICTION. An examination of the novel designed to acquaint the student with the important aspects of artistic excellence in this form.

212-3. INTRODUCTION TO MODERN LITERATURE. Principal forms, ideas, and writers of the literature of America and England in the twentieth century. Especially recommended to majors in other fields than English.

ART

120-3. ART APPRECIATION. Introductory course relating art to daily experience.

MUSIC

100-3. MUSIC UNDERSTANDING. Introductory course for nonmajors, with emphasis on background, purpose, and structure of representative compositions.

BIOLOGICAL SCIENCES

Nine quarter-hours are required in this area. Of these nine hours, four must be taken in Health Education 100 and the additional five in Botany 101 or 202 or Zoology 100.

HEALTH EDUCATION

100-4. HEALTHFUL LIVING. A survey course in personal and community health designed to meet the general health needs of college students. Presents scientific information as a basis for helping the student develop proper health attitudes and practices.

BOTANY

- 101-5. GENERAL BOTANY. An introductory study of the morphology, anatomy, and physiology of the seed plants, including vegetative and sexual reproduction; identification and recognition of common trees by leaf and stem characters. Laboratory and field studies.
- 202-5. GENERAL BOTANY. A study of representative plants of the great plant groups; classification; evolution of the plant kingdom. Laboratory, and one all-day (required) field trip. Student cost about \$5.00. Prereq, 101.

ZOOLOGY

- 100-5. PRINCIPLES OF ANIMAL BIOLOGY. Introduction to the major principles underlying the study of zoology. Lectures on principles of animal classification, organization of matter into cells, tissues, organs, and organ systems, heredity, ecology, animal distribution, organic evolution, economic zoology, and conservation. Laboratory work designed to illustrate the above principles.

MATHEMATICS AND PHYSICAL SCIENCES

Twelve quarter-hours are required in this area. These twelve hours are to be selected from two of the following three departments: Chemistry, Mathematics, and Physics.

CHEMISTRY

- 101-4. GENERAL CHEMISTRY. A survey course for students who wish only to satisfy the general education requirements in physical science. Composition and states of matter, valence, formulas and equations, solutions and electrolytes; water, oxygen, carbon, sodium, and iron. Lect. and lab.
- 102-4. GENERAL CHEMISTRY. Continuation of 101, completing a survey of the more important nonmetals and metals, and of simple organic and biological chemistry. Lect. and lab. Prereq, 101.

MATHEMATICS

- 106-4. GENERAL MATHEMATICS I. A course designed particularly for students who take mathematics to satisfy a graduation requirement. Regular sections, designated in class schedule as 106a, include a careful study of the real number system in order to provide a better understanding of arithmetic and elementary algebra. Sections for business majors, designated in class schedule as 106b, cover topics from intermediate algebra with business application. Sections designated as 106c cover a regular course in intermediate algebra. Prereq, two semesters of high school mathematics and satisfactory score on placement test, or Math. 100.
- 107-4. GENERAL MATHEMATICS II. Continuation of 106. Regular sections, designated in class schedule as 107a, cover certain topics from algebra and geometry. Sections for business majors, designated in class schedule as 107b, cover elementary mathematics of finance. Prereq, 106.

PHYSICS

101-4, 102-4. SURVEY COURSE IN PHYSICS. Mechanics, light, and sound covered in 101; heat and electricity in 102. For students whose chief interests are not in the physical sciences. Pre-engineers and physics majors should take 211, 212, and 213. Other science majors, including pre-medical students, should take 206, 207, and 208.

PRACTICAL ARTS AND CRAFTS

Three quarter-hours are required in this area for students who have not had any of this work in high school. Work may be taken in agriculture, business, home economics, or industrial education to meet this requirement. The number of courses from which a student might select makes it impractical to list specific courses here. A student should consult with his adviser when desiring to satisfy this requirement so as to make certain that he does not select a course which has a prerequisite he has not satisfied. Also, he might turn to the latter part of this chapter for a listing of elective courses.

PHYSICAL EDUCATION

Six quarter-hours of physical education activity course credit are required. The work is to be selected from the courses listed below.

Men students participating in varsity sports may substitute, in lieu of this requirement, three quarters of competition on a varsity athletic squad, each quarter in a different sport, provided they register for the varsity sport for credit. Not more than two quarter-hours in any one sport may count toward this requirement. Not more than six hours of physical education activity credit may be accepted toward the graduation requirement for men students.

Women students are to select three courses from the 100-series and three courses from the 200-series. All 100-numbered courses meet three days a week and all 200-numbered courses meet two days a week. Not more than one course may be taken in any one quarter without special permission from the physical education department.

PHYSICAL EDUCATION FOR MEN

149-1. ADAPTED AND RESTRICTED ACTIVITIES. Freshman requirement for students with functional or structural disorders. Three-hour activity.

151-1, 152-1, 153-1. FRESHMAN REQUIRED PHYSICAL EDUCATION. Three-hour activity.

170-2, 171-2, 172-2, 173-2, 174-2, 175-2, 176-2, 177-2, 178-2, 179-2. VARIOUS VARSITY SPORTS.

208-1, 224-1, 230-1, 233-1, 239-1. VARIOUS DANCE COURSES.

249-1. ADAPTED AND RESTRICTED ACTIVITIES. Sophomore requirement for students with functional and structural disorders. Two-hour activity.

251-1, 252-1, 253-1. SOPHOMORE REQUIRED PHYSICAL EDUCATION. Two-hour activity. Prereq, 151, 152, and 153.

254-1. BOWLING. Fundamental techniques; rules and strategy.

PHYSICAL EDUCATION FOR WOMEN

- 100-1, 120-1, 204*-1, 205*-1, 228-1, 316-1, 317-1. VARIOUS SWIMMING COURSES.
- 101B-1, 101H-1, 101S-1, 102-1, 103-1, 206-1, 212-1, 213-1, 214*-1, 215-1, 216-1, 218*-1, 222*-1, 223-1, 254-1, 255-1, 315-1, 373-1, 375-1, 377-1. VARIOUS ACTIVITY COURSES.
- 107-1, 127-1, 208-1, 224-1, 230*-1, 233-1, 239*-1, 374-1, 376-1. VARIOUS RHYTHM, BODY MOVEMENT, AND DANCE COURSES.
- 101A-1, 102A-1, 103A-1, 201A-1, 202A-1, 203A-1. ADAPTED PHYSICAL EDUCATION. For students who are physically unable to participate in the regular physical education activities.

* Students who are advised by the University Physician to restrict their activities should register in a course marked with an "A" or an asterisk.

AIR SCIENCE

Six quarter-hours of Air Science and Tactics are required for all entering male students who undertake their first college work by entering Southern Illinois University (Carbondale campus) unless they are veterans, or over twenty-five years of age at the time of entrance, or are excused from this requirement by the Military Policies Committee.

Male students who transfer less than forty-five quarter-hours of acceptable credit from a residence center of Southern Illinois University, from the Vocational-Technical Institute of Southern Illinois University, or from another college or university, including a junior college, shall be required to take six quarter-hours of Air Science and Tactics unless otherwise excused from the requirement by the University Military Policies Committee, or unless they are veterans or are over twenty-five years of age at the time of entrance.

- 101-1, 102-1, 103-1. AIR SCIENCE I, BASIC. Introduction to AF ROTC; introduction to aviation; fundamentals of global geography; international tensions and security organizations; military instruments of national security; and leadership laboratory. Basic military training. 2 hours lect.; 1 hour lab.
- 201-1, 202-1, 203-1. AIR SCIENCE II, BASIC. Introduction to Air Science II; elements of aerial warfare—introduction, targets, weapons, aircraft, bases, operations; careers in USAF; and leadership laboratory. Cadet noncommissioned officer training. 2 hours lect.; 1 hour lab. Prereq, 101, 102, 103, or equivalent with consent of PAS.

ADDITIONAL DEGREE INFORMATION

Degree candidates are expected to follow the basic program outlined above, plus the advanced work recommended by the department in which the student expects to do his major work. The requirement that freshmen must attend weekly freshman convocations should also be noted. If the student intends to take his degree elsewhere, the adviser may recommend changes in these requirements in favor of those of the institution from which the student plans to be graduated. If the student changes his mind

and decides to take his degree at Southern, none of the above requirements can be waived.

A student who receives his first bachelor's degree from Southern, and who desires a second bachelor's degree, must complete forty-five hours in addition to those required for the first degree and must fulfill the requirements for the second degree. Of these forty-five hours, a minimum of fifteen hours must be taken in residence on this campus and a maximum of fifteen hours may be taken by extension and/or correspondence courses. At least thirty hours must be in senior college courses. If a student received his first bachelor's degree from another university, forty-eight hours are required to fulfill the residence requirement for the second bachelor's degree, two-thirds of which must be in senior college courses.

Students may satisfy any of the above requirements by passing non-credit attainment tests. In some cases, more advanced work may be substituted for the required courses listed. Students who transfer in the junior or senior years may substitute senior college courses in most departments for the freshman-sophomore courses listed above.

The physical education requirement can be waived only by the Graduation Appeals Committee upon the recommendation of the University Physician. Waiver procedure should be initiated early in a student's college course and in no case later than the end of his sophomore year. Students thirty years of age or older are not subject to this requirement.

TEACHING CERTIFICATES

Most students planning to teach in the public schools register in the College of Education. However, it is possible for a student to be registered in one of the other colleges or schools and meet the state requirements for a limited high school teaching certificate by using as his electives certain prescribed courses in the College of Education. Students in the College of Education will find specific certification information in the College of Education Bulletin. Students in other colleges and schools may receive the certification information in mimeographed form by addressing the Registrar's office.

EXTENSION AND CORRESPONDENCE CREDIT

A maximum of one-half of the number of hours required for the bachelor's degree, or ninety-six quarter-hours, may be taken by extension and correspondence courses combined. Of this total, not more than forty-eight quarter-hours may be taken in correspondence courses.

While Southern Illinois University does not maintain a correspondence division, courses taken by correspondence from institutions which are members of the Association of American Universities are regularly accepted, if the final examinations are taken under supervision on a college campus.

UNIVERSITY CREDIT FOR MILITARY EXPERIENCE

Southern Illinois University follows the policies recommended by the American Council on Education regarding credit for military experience and for experience in civilian activities related to the war, as set forth in the *Guide to the Evaluation of Educational Experiences in the Armed Forces*. No credit is allowed for College Level G.E.D. Tests. Credit will be accepted for USAFI courses within the limitations imposed for extension and correspondence work.

Veterans who served one year or more of active duty and who received an honorable discharge may receive up to fifteen quarter-hours of credit for such service. This credit will substitute for the physical education, air science, and health education requirements as listed under Requirements for the Bachelor's Degree. Veterans who served six months to one year of active duty and were honorably discharged may receive three hours of freshman air science credit. Less than six months of active service does not allow any college credit.

In the event that a veteran has already taken some of this work in college prior to entrance into service, the amount of credit received for military service will be reduced correspondingly. In order to receive credit for military service a veteran must present a copy of his discharge or separation papers to the Admissions Office.

ELECTIVE COURSES

Not all of the 192 hours required for a bachelor's degree consist of required courses. A student will find that he has opportunity to take a certain amount of work on an elective basis. The extent of this opportunity will vary, depending upon a student's academic unit and major.

A list of suggested elective courses appears below. This listing has been furnished by the various departments and consists of courses that a student can consider taking without the necessity of having had certain prerequisites except, perhaps, the departments' general education courses as listed earlier. This listing of elective courses does not include those courses previously listed under the section on Requirements for the Bachelor's Degree.

ACCOUNTING

- 250-4. ACCOUNTING FUNDAMENTALS. For students who want a general knowledge of accounting, but who do not wish to pursue the subject further.
- 309-2. INCOME TAXES FOR INDIVIDUALS. Federal income tax law as applied to individuals.

AGRICULTURAL INDUSTRIES

- 114-4. INTRODUCTION TO AGRICULTURAL ECONOMICS. Agricultural and national and local economy; distribution and reasons; size and organization of farm business; policies affecting agriculture.
- 303-4. SURVEYING. Elementary surveying; use of tape, compass, leveling transit, with practice in making simple maps.

ANIMAL INDUSTRIES

- 105-4. ANIMAL HUSBANDRY. Survey of beef cattle, sheep, and hog industries; laboratory work in judging; field trips, approximately \$2.00 per student.
- 125-4. ELEMENTARY POULTRY PRODUCTION. Brooding and rearing of chicks, housing, feeding, disease control, flock selection, management, and marketing of poultry.
- 231-4. DAIRY HUSBANDRY. Introductory work, including selection, herd improvements, milk secretion, manufacture of dairy products.

ANTHROPOLOGY

- 110-5. GENERAL ANTHROPOLOGY. Anthropology as a science and a profession. Brief survey of human origins, prehistory, world ethnography.
- 211-3. PHYSICAL ANTHROPOLOGY. Human evolution and variation. Anthropometry. Prereq, 110.
- 212-3. CULTURAL ANTHROPOLOGY. Nature and origin of culture. Content and patterning of cultures. Cultural processes. Prereq, 110 or Soc. 200.

ART

- 203-2 to 12. BEGINNING CERAMICS. First quarter: emphasis on throwing clay objects on potter's wheel, hand building and press molding of decorative and functional containers; decorative uses of clay and glazes, study of line and form. Second quarter: continuing study of throwing forms on the potter's wheel, decorative techniques using clay and glazes, firing the kiln; study of raw materials of ceramics, glaze making. Third quarter: continuing study of throwing forms on the potter's wheel, calculation of glaze formulas, study of special types of kiln firing; emphasis on creative approach to subject.

70 *General Information*

- 231-4. JEWELRY. Single-term introductory course. Study of basic techniques used in construction of jewelry with an emphasis on a personal and original design experience.
- 245-2 to 12. THE FIGURE. Three-quarter sequence. A study of the human figure in terms of form, movement, and structure accompanied by an exploration of possibilities of various drawing media.
- 250-2 to 12. OIL PAINTING. Three-quarter sequence. Introductory study of oil painting as a medium of expression. Individual rather than group problems planned and worked upon. Nonmajors must have permission of instructor.
- 345-4. ART OF THE NINETEENTH CENTURY. A survey of significant monuments and their meaning in the western world between the French Revolution and late nineteenth-century impressionism.
- 347-4. ANCIENT ART. A survey of art history from early Egyptian times to the fall of Rome.

ASTRONOMY

- 201-4. INTRODUCTION TO ASTRONOMY. Four recitations a week, together with frequent evening observations with and without telescope. Should be followed with 202 for a complete course.

BOTANY

- 350-4. PLANTS IN RELATION TO MAN. A study of the basic relationships of plants to the life of man; the history, geography, crop ecology, production, consumption, and uses of plants and plant products of economic importance.

CHEMISTRY

- 111-5. INORGANIC CHEMISTRY. (1 hour credit after 101.) A beginning course (high school chemistry not a prerequisite) for chemistry majors and minors, pre-medical, pre-dental, pre-engineering, pre-veterinary, and dietetic students. Atomic structure, valence, formulas, equations; general properties of gases, liquids, and solids, oxygen, hydrogen, water, solutions, and the halogens. Lect. and lab.

CLOTHING AND TEXTILES

- 127-4. CLOTHING SELECTION AND CONSTRUCTION. Fundamentals of clothing construction. Use of commercial patterns in construction of basic garments of wool, cotton, and rayon. Use of short-cut methods.
- 135-3. TEXTILES. Selection of textiles from consumer standpoint. Characteristics of commonly used fibers and fabrics; textile information as a tool in the selection and care of household textiles and clothing.

ECONOMICS

- 206-4. ECONOMIC PRINCIPLES AND PROBLEMS. Prereq. 205.

- 307-4. ECONOMIC AND BUSINESS STATISTICS. Three hours lecture; two hours laboratory. Prereq, 205; recommended, Math. 106a.
317-4. ECONOMIC HISTORY OF THE UNITED STATES. Prereq, 205.

EDUCATIONAL ADMINISTRATION AND SUPERVISION

- 100-4. INTRODUCTION TO EDUCATION. An orientation course to enable students to make intelligent decisions about teaching as a career.

ENGLISH

- 301-3. INTRODUCTION TO SEMANTICS. The nature of language, the emotional and intellectual content; breaking down linguistic naivete, and developing a consciousness of the motives in the use of language.
308-4. AMERICAN NOVEL. Emphasis on Hawthorne, Melville, Crane, Lewis, and Cather.
312-3. FOLKLORE. A study of the types of folklore, with wide reading in the field. Students are expected to collect and classify examples from local lore.
335-4. THE SHORT STORY.
356-4. THE NOVEL SINCE 1900. Novelists of various nations. Recommended for students not majoring in English.
365-4. SHAKESPEARE. The chief comedies and histories.

FOOD AND NUTRITION

- 105-4. FOODS. Production, marketing, preparation, and service of foods common to family breakfasts and lunches.
206-4. FOODS. Units on foods common to family dinners; home preservation of food. Prereq, 105, or permission of instructor.
336-4. MEAL PLANNING AND SERVING. Principles of food selection and menu making. Selection and use of table appointments. Demonstrations on table setting and service.

FOREIGN LANGUAGES

FOREIGN LANGUAGES

- 140-2. LATIN AND GREEK ELEMENT IN ENGLISH I. Presentation in English contexts of Greek and Latin roots basic in modern technical and scientific vocabulary. No knowledge of the ancient languages required.
240-2. LATIN AND GREEK ELEMENT IN ENGLISH II. Similar to 140 but more advanced and introducing medical terms.

GREEK

- 320-3. SURVEY OF GREEK LITERATURE. Discussion of Greek literary works and their influence on later literature. No knowledge of Greek required.

- 330-3. **CLASSICAL MYTHOLOGY.** Study of the classical myths and their literary value. No knowledge of Greek or Latin required.

LATIN

- 304-2. **PRIVATE LIFE OF THE ROMANS.** A course comprising a personal study of the average family; housing, food, and clothing; marriage, education, amusements, slaves, and freedom; means of livelihood; death and burial. Open to all students whether they have had Latin or not.
- 320-3. **LATIN LITERATURE IN TRANSLATION.** Discussion of Latin literary works and their influence on later literature. No knowledge of Latin required.

FORESTRY

- 361-4. **FOREST CONSERVATION.** The importance and use of forests, their management and conservation, and public forest policy. For non-agriculture majors. Cannot be used toward major credit in agriculture. Field trips, approximately \$2.00.

GEOGRAPHY

- 310-4. **METEOROLOGY.** Study of weather, the factors and conditions influencing it, and its importance to man. Emphasis placed upon agriculture, aviation, business, industry, and everyday understanding of weather. Most recent findings in weather science studied. Of value to persons interested in weather bureau service. Prereq, 100.
- 313-3. **GEOGRAPHY OF ILLINOIS.** Acquaints the student with the regional concepts of our state, the distribution of climate, vegetation, soils, landforms, and mineral resources; interrelates agriculture, manufacturing, industry, and population distribution, interpreted within a regional framework. Prereq, 100.
- 315-4. **GEOGRAPHY OF EUROPE.** An intensive study of regions, with stress on their description, interpretation and utilization. Emphasis on interdependence of political units. Prereq, 100.
- 324-4. **RESTORATION AND CONSERVATION OF NATURAL RESOURCES.** Survey of major resources of United States with stress on problems of conservation and restoration. Emphasis on water, mineral, forest, grass, soil, wildlife, scenic, and recreational resources. Field trips. Prereq, 100, or permission of instructor.

GEOLOGY

- 100-4. **PRINCIPLES OF GEOLOGY.** A study of earth materials, geologic processes, and earth history. Stress upon the common rocks and minerals, erosional and depositional processes, volcanism, and formation of mountains; development of life forms, and the changing face of the earth; application to understanding the landscape, the search for oil and mineral resources, engineering construction. Laboratory.
- 220-5. **PHYSICAL GEOLOGY.** A study of the principal minerals and rocks of the earth's crust, emphasizing origin and identification; the physical

processes active in producing the surface features of the earth. Laboratory and field trips required.

GOVERNMENT

- 231-5. AMERICAN NATIONAL GOVERNMENT. A survey covering the structure, functions, and principles of national government.
- 305-5. DEVELOPMENT OF THE AMERICAN CONSTITUTION. The evolution of the United States constitutional system. Recommended for pre-law students. Prereq, 101 or 231.
- 330-2. ILLINOIS GOVERNMENT. The development and functioning of government in Illinois. Prereq, 101 or 231.

HEALTH EDUCATION

- 233-2. FIRST AID. Red Cross first aid course as a basis. Emphasis on standard techniques in emergency case. Standard ARC certificate upon completion.
- 311-4. CHILD DEVELOPMENT. Physical development of the child, beginning with the study of pregnancy, prenatal and postnatal care, and the physical development of the child from birth to puberty.
- 312-4. EMOTIONAL HEALTH. Designed for prospective teachers and parents. Emotional health of the teacher and parent in terms of its influence upon the child in the classroom.
- 325-3. COMMUNITY HEALTH PROBLEMS. Methods of water purification; sewage disposal; diseases transmitted by contaminated food, water, and milk; restaurant sanitation and food handling.
- 355-4. INTRODUCTION TO PUBLIC HEALTH. An introduction to the federal, state, and local official public health agencies, and to voluntary public health agencies; their organization, administration, functions, and relationship to school and community health programs. Programs emphasized by visits to local and state public health agencies.

HISTORY

- 212-4. HISTORY OF EUROPE. A comprehensive study of the principal social, economic, political, and cultural developments since 1815.

HOME AND FAMILY

- 227-3. FAMILY LIVING. A study of relationships and adjustments in family living, designed largely to help the individual.
- 300-3. HOME ECONOMICS FOR MEN. Units dealing with food selection, serving, and table practice; economics of the home; grooming and clothing selection; family relations; consideration of personality evaluation. Field trip.
- 324-2. EQUIPMENT. Selection, use, and care. Field trips.
- 341-4. CONSUMER PROBLEMS. Study of motives of consumption, family income and expenditures, selection of commodities and services, buying and selling practices, and evaluation of consumer aids. Consideration of contemporary consumer problems. Field trips.

HOME ECONOMICS EDUCATION

- 111-2. HOME ECONOMICS ORIENTATION. Surveying professional opportunities in home economics; planning for the development of personal and professional proficiencies.

HUMANITIES

- 301-1. MAN'S CULTURAL BACKGROUND. A series of lectures by various experts pointing up the contributions of literature, art, and philosophy to understanding the modern world.

INDUSTRIAL EDUCATION

- 300-4. LEATHERWORK AND PLASTICS. Elementary fundamental principles and practices involved in working leather and plastics.

JOURNALISM

- 101-3, 102-3. INTRODUCTION TO JOURNALISM I, II. Development of the newspaper in America; role of the press in modern society.
393-3. PUBLICITY METHODS. Designed for students who do not plan a career in writing, but desire guidance and practice in writing for newspapers and magazines about their fields of specialization.

MANAGEMENT

- 170-4. INTRODUCTION TO BUSINESS ADMINISTRATION. A survey of business, intended to give to the student a general knowledge of the modern business world, a better basis for choosing his specialty, and certain information not covered in the various specialized courses offered.
271-4. BUSINESS WRITING. Principles and practice in writing typical kinds of business correspondence and reports. Prereq, Eng. 103. Ability to pass qualifying test in typewriting.

MARKETING

- 330-5. MARKETING PRINCIPLES AND PRACTICES. A general survey course designed to acquaint the student with the entire field of marketing. Consideration given to the underlying economic principles; historical development of distributive systems, channels, agents, institutions, functions, policies and principles.

MICROBIOLOGY

- 100-5. PRINCIPLES OF MICROBIOLOGY. Introduction to the fundamental aspects of biology, drawing for examples upon microbial forms.

Consideration of morphology; principles of classification; growth and reproduction; heredity, ecology; effects of physical and chemical agents; organisms essential, beneficial and harmful to man; host-parasite interaction; principles of immunology and epidemiology. Lectures, laboratory, and field trips.

MUSIC

- 001-1. BAND
- 002A-1. CHORUS
- 003-1. ORCHESTRA

CLASS INSTRUCTION IN THE FOLLOWING AREAS:

- | | | |
|---------------------|---------------------|------------------|
| 010A-1. VIOLIN | 020C-1. CLARINET | 050B-1. TRUMPET |
| 010B-1. VIOLA | 020D-1. BASSOON | 050C-1. TROMBONE |
| 010C-1. CELLO | 020E-1. SAXAPHONE | 050D-1. TUBA |
| 010D-1. STRING BASS | 030-1. PERCUSSION | 050E-1. BARITONE |
| 020A-1. FLUTE | 040-1. PIANO | 060-1. VOICE |
| 020B-1. OBOE | 050A-1. FRENCH HORN | |

105-4, 106-4, 107-4. THEORY OF MUSIC. Fundamentals of music in sight singing, ear training, harmony, and keyboard harmony.

307-4. RECREATIONAL MUSIC AND SINGING GAMES. For those interested in the less formal approach to music and for prospective leaders of recreational activities.

330-4, 331-4, 332-4. MUSIC HISTORY AND LITERATURE. (Formerly 336, 337, and 338.) 330: musical thought from the early Greek and Roman periods; development of music in the fifteenth and sixteenth centuries. 331: musical thought in the seventeenth, eighteenth, and early nineteenth centuries (Bach to Wagner). 332: Wagner, the rise of nationalism, late nineteenth- and twentieth-century composers. 331 and 332 may be taken following successful completion of 330.

345-1. MADRIGALS.

346-2 to 12. OPERA WORKSHOP.

NURSING

101-0, 102-2. INTRODUCTION TO NURSING. General introduction to the field. Historical development, philosophy of nursing education and service, the team, functions of nursing, hospitals and other health agencies.

PHILOSOPHY

100-2. SCIENCE AND THE NATURE OF THE WORLD. Introduction to scientific knowledge and its relation to philosophy. Topics drawn from many sciences presented without assuming any prior acquaintance with the sciences: infinity, cause, necessity, nature and the machine, perception, etc.

120-2. PRACTICAL LOGIC I. Introduction to accurate thinking, and the proper use of the resources of language, covering such topics as signs

and symbols, definition, metaphor, fallacies, propaganda analysis, implication, and syllogism.

- 121-2. **PRACTICAL LOGIC II.** Popular but inadequate ways of gathering and summing up information in contrast with the more reliable procedures of common sense and science.
- 140-2. **IDEAS OF GOOD AND EVIL.** Elementary exploration of human purposes, in terms of the good, faith and knowledge, human destiny and progress, freedom, democracy.
- 160-2. **THE MEANING OF ART.** Significance of the arts, developed by considering selected works from architecture, painting, literature, and music.
- 170-3. **VALUES IN THE MODERN WORLD.** A critical examination of basic moral, religious, aesthetic, and intellectual values of western civilization as these are expressed in selected works of art, music, literature, and philosophy. Attention will be given to alternative value systems and other forces which challenge these values today.
- 302-4. **WORLD RELIGIONS.** An historical and comparative study of the principal religions of the world. Particular attention is given to such non-Christian faiths as Hinduism, Buddhism, and Islam.
- 386-4. **AMERICAN PHILOSOPHY.** A survey of American philosophic thought from colonial days to the present, with emphasis on such recent thinkers as Peirce, James, Royce, Dewey, and Santayana.

PHYSICAL EDUCATION—WOMEN

The department recommends courses 100, 120, 204, 205, 208, 216, 222, 228, 239, 254, 255, 315, and 377. These courses are listed on page 66. Any of these courses may be counted toward the six quarter-hours of activity courses required for graduation, but if the six quarter-hours have been taken, the above courses may be added as electives.

PHYSICS

See Astronomy, page 70.

PHYSIOLOGY

- 209-5. **INTRODUCTION TO PHYSIOLOGY.** A survey of the functions of the human body. Designed for students in various fields desiring a basic but comprehensive knowledge of human physiology. Three hr. lect; four hr. lab.
- 300-4. **HUMAN ANATOMY.** Lectures, demonstrations, and periodic observation of the prosected body. Lectures confined to bones, joints, muscles, and nerves. Designed for majors in physical education and for those wishing an elementary knowledge of human structure.

PLANT INDUSTRIES

- 264-4. **GENERAL HORTICULTURE.** General principles of plant propagation, vegetable growing, fruit growing, landscape gardening, and

floriculture. Field trips, approximately \$2.00 per student. Three lectures and one 3-hour lab.

304-3. **LANDSCAPE GARDENING.** Land selection, landscape design and development for home, farm, and public sites with regard to area adaptation. Field trips, approximately \$2.00 per student.

344-4. **GENERAL FLORICULTURE.** Propagation, culture, and uses of flowering plants in the home and garden. Field trips, approximately \$2.00 per student.

PRINTING AND PHOTOGRAPHY

260A-3. **BEGINNING PHOTOGRAPHY.** Picture-taking techniques and dark-room procedures emphasizing the camera in the modern press.

PSYCHOLOGY

201-4. **PSYCHOLOGY I: THE HUMAN PERSONALITY.** A general introduction to the psychological nature of man, his inner dynamics, his learning to perceive and think about himself and his world, his personality development trends, and the basic adjustive patterns.

301-4. **CHILD PSYCHOLOGY.** The total, integrated psychological development of the child, with special consideration given to the influence of interpersonal relationships in the home and school. Prereq, 201.

RADIO-TELEVISION

161-4. **RADIO-TELEVISION SPEAKING.** Oral and visual speaking techniques for various radio and television speaking situations such as studio announcing, musical and dramatic programs, interviews, etc. Extensive microphone practice. Many recordings. Sound films for television practice performance.

251-3. **SURVEY OF BROADCASTING.** Examination of the U.S. system of broadcasting, with emphasis on its history, its structures, economics, network and local station operational structures. The various systems of foreign broadcasting.

257-4. **FUNDAMENTALS OF BROADCAST WRITING.** Oral and visual forms of writing for radio and television. Short continuity forms and commercial presentations.

367-3. **RADIO-TELEVISION PRODUCTION SURVEY.** Radio and television production techniques for those individuals not planning a full-time broadcasting career. Uses of production equipment. Production of basic types of programs. Two 1-hour lectures per week and two 2-hour scheduled laboratory periods.

RECREATION AND OUTDOOR EDUCATION

210-3. **SOCIAL RECREATION.** Materials and techniques for planning and conducting social activities for groups of varying sizes and ages in the many different social situations.

SCIENCES

- 301-1. *MAN'S PHYSICAL ENVIRONMENT.* A series of lectures by various experts pointing up the contribution of the physical and biological sciences to understanding the modern world.

SECRETARIAL AND BUSINESS EDUCATION

- 102-3. *TYPEWRITING I.* An introductory course in touch typewriting, giving credit only to those students who have had no previous school training in typewriting. Students who have had typewriting in high school should take a placement test. Placement tests are given each quarter at announced times. Course 102 is the first course in a five-course typewriting sequence. The others are 103-3, Typewriting II; 104-3, Typewriting III; 113-3, Typewriting-Duplicating; and 213-3, Typewriting IV.
- 105-4. *SHORTHAND I.* An introductory course in Gregg shorthand, giving credit only to those students who have had no previous school training in shorthand. Students who have had shorthand in high school should take a placement test. Placement tests are given each quarter at announced times. Course 105 is the first course in a five-course shorthand sequence. The others are 106-4, Shorthand II; 107-4, Shorthand III; 216-4, Shorthand IV; and 308-4, Transcription.

SOCIAL STUDIES

- 301-1. *MAN IN SOCIETY.* A series of lectures by various experts in social and governmental problems.

SPECIAL EDUCATION

- 200-2. *ORIENTATION TO THE EDUCATION OF EXCEPTIONAL CHILDREN.*

SPEECH

- 101-4. *PRINCIPLES OF SPEECH.* Development of an understanding of basic principles and proficiency in the skills involved in everyday communication.
- 103-4. *ORAL INTERPRETATION.* A basic course for speech majors, teachers, preachers, and those interested in the analysis of good literature and the oral communication of the literature to an audience.
- 108-3. *SPEECH FOR FOREIGN BORN I.* Designed to facilitate the learning of American English. May be substituted by foreign-speaking students for Speech 101.
- 201-2. *PARLIAMENTARY LAW.* How to conduct a meeting. Study and practice of the rules of parliamentary procedure.
- 202-3. *PRINCIPLES OF DISCUSSION.* Principles and methods of group discussion. Current problems used as material for discussion.

SPEECH CORRECTION

- 104-4. **TRAINING THE SPEAKING VOICE.** Designed for those students who desire to improve their voice and articulation.
- 108-3. **SPEECH FOR FOREIGN BORN I.** Designed to facilitate the learning of American English. May be substituted by foreign-speaking students for Speech 101.

THEATER

- 106-4. **INTRODUCTION TO THE THEATER.**
- 111-3, 112-3, 113-3. **STAGING TECHNIQUES.** Lectures and practical experience in all phases of dramatic production in connection with departmental public presentations. One quarter is prerequisite to all courses numbered over 200.
- 208-1 to 3. **DRAMATIC ACTIVITIES.** Credit to be earned by participation in public performance.

ZOOLOGY

- 102-5. **GENERAL INVERTEBRATE ZOOLOGY.** Studies of typical representatives of the various kinds of invertebrate animals. Relationship, structure, and natural history emphasized.
- 303-4. **GENERAL ORNITHOLOGY.** Recognition of birds and study of their songs, nests, migratory habits, and other behavior. Cost of field trips, \$10.00 to \$25.00 per student. Prereq, 100 or its equivalent.
- 314-4. **HEREDITY AND EUGENICS.** Principles of heredity in relation to animals, including man. (Also given by extension.) Prereq, Zool. 100 or Bot. 101.
- 316-4. **INSECT PESTS AND THEIR CONTROL.** Principal harmful and beneficial insects and their allies; chemical and biological methods of control.
- 350-4. **ECONOMIC ZOOLOGY.** Animals in relation to public welfare.

University Services

UNIVERSITY LIBRARIES

Director Ralph E. McCoy, Ph.D. (Illinois)	1955
Assistant Professor (Residence Centers) Floyd R. Meyer, Ed.D. (Nebraska)	1957-58
Assistant Professor (Residence Centers) Alfred Garrett Harris, Ph.D. (Ohio State)	1957-59

AUDIO-VISUAL SERVICES

Assistant Professor Donald A. Ingli, M.A. (Minnesota)	1947
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PUBLIC SERVICES

Assistant Director Elizabeth O. Stone, M.S. in L.S. (Illinois), Assistant Professor	1953
Assistant Professor Roy Vail Jordan, M.A. (Wisconsin), Emeri- tus (1952)	1948
Education Librarian Zella Cundall, B.S. in L.S. (Illinois), Assistant Professor	1946
Assistant Education Librarian Ruth E. Bauner, M.S. (Illinois), Instructor	1956
Assistant Education Librarian Bill Victor Isom, M.S. (Illinois), Instructor	1957
Humanities Librarian Alan M. Cohn, M.A. (Washington Uni- versity), Assistant Professor	1955
Assistant Humanities Librarian Grace E. Kite, M.A. (Colum- bia), Assistant Professor	1941
Assistant Humanities Librarian Earl Tannenbaum, M.A. (In- diana), Instructor	1957
Science Librarian Harry R. Skallerup, M.A. (Minnesota), In- structor	1955
Assistant Science Librarian Angela T. Battaglia, M.S. (Illinois), Instructor	1956
Assistant Science Librarian Patricia Anne Boord, B.A. (Ill- inois), Assistant Instructor	1957-58
Assistant Science Librarian Eugene E. Graziano, M.A. (Okla- homa), Instructor	1958

Social Studies Librarian John Clifford, Ph.D. (Iowa), Assistant Professor	1955
Assistant Social Studies Librarian Ruby Kerley, A.M. in L.S. (Michigan), Assistant Professor	1935-42; 1948
Assistant Social Studies Librarian Harold F. Smith, M.A. (Denver), Instructor	1957
University School Librarian Cora Edna Thomassen, M.S. (Illinois), Instructor	1957
Assistant University School Librarian Mary Belle Melvin, B.S. in L.S. (Illinois), Assistant Instructor	1947-59
Vocational-Technical Institute Librarian Gordon Owen Allen, M.S. in L.S. (Michigan), Instructor	1956

TECHNICAL SERVICES

Assistant Director F. S. Randall, B.L.S. (Chicago), Assistant Professor	1953
Catalog Librarian Kent U. Moore, A.M. (Columbia), Instructor	1952
Assistant Catalog Librarian Golda Hankla, M.A. (Illinois), Instructor	1938
Assistant Catalog Librarian Dorothy E. Heicke, M.A. in L.S. (Illinois), Assistant Professor	1947
Assistant Catalog Librarian Annette Lewis Hoage, M.L.S. (Illinois), Instructor	1957
Assistant Catalog Librarian Nina Marie Morton, B.S. in L.S. (Illinois)	1956-58
Order Librarian John G. W. McCord, B.S. in L.S. (Illinois), Instructor	1951
Assistant Order Librarian Mary E. Clayton, B.A. (Missouri), Assistant Instructor	1957-58
Serials Librarian James E. Tydeman, M.A. (Chicago), Instructor	1955-58

Adjunct Professor P. Miller Boord, M.A. in L.S. (George Peabody)	1957
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THE LIBRARY SYSTEM

The University library system consists of four subject libraries (Education, Humanities, Science, and Social Studies), an Audio-Visual Department, and a Textbook Rental Service, all housed in the general library building. There are also branch libraries in the University School, the Vocational-Technical Institute, and at the Alton and East St. Louis resi-

dence centers. The work of acquiring and cataloging library materials is performed by the Technical Services Division.

SPECIAL FACILITIES

Most of the books in the University Libraries are arranged in "open stacks," enabling students and faculty members to browse freely. The library building provides a lounge for informal study and for reading current newspapers and periodicals of a general nature. Graduate students have a special study area and locker facilities. Group study areas are also provided in each subject library. A browsing room, furnished informally, contains books of current information in many fields. Individual and group listening rooms permit students and faculty members to use the record collection in the Humanities Library. Preview rooms in the Audio-Visual Department provide for individual and group viewing of films. Facilities for use of microfilm, microprint, and microcard are also provided in the subject libraries. An exhibit hall enables the Library to display some of its choice materials. The Library furnishes specially selected collections, which are rotated periodically among the University dormitories. The Library staff is prepared to assist patrons in locating special books and other materials, in finding general and specific information on any topic, and in giving instruction in the use of bibliographical tools.

GENERAL RESOURCES

The University Libraries contain approximately 250,000 volumes (including bound government documents, bound periodicals, and books), plus a collection of some 50,000 maps, a curriculum and textbook collection of more than 5,000 books and 3,000 curriculum guides and courses, an amateur play collection of approximately 1,200 items, a large file of sample tests, and a collection of approximately 1,200 long-playing phonograph records. The Library subscribes to some 2,500 periodicals and to 70 newspapers, some on microfilm. The Library is a depository for federal and Illinois state printed documents and for the Army Map Service. It also subscribes to United Nations printed documents that are issued in microprint form. The Audio-Visual Department has approximately 3,500 films and filmstrips available for both on- and off-campus use.

SPECIAL COLLECTIONS

Among the special resources of the University Libraries are a collection of *Lincolnia* and *Americana*, contributed in 1944 by Clint Clay Tilton, a Danville newspaper publisher, a collection of some 1,200 vol-

umes on folklore from the library of the late Alexander Krappe, and some 4,000 volumes dealing with American social, political, and religious life, contributed in 1957 by the Kern family of Belleville. The Library also has assembled a good working collection of law books, including the complete reporter system. The Library's extensive music collection has been augmented in recent years by gifts of books and musical scores from Mrs. Robert P. Bates of Chicago, in memory of her sister, Emma Lansden. The University is rapidly developing a collection of books by and about Walt Whitman as a result of the beneficence of the Detroit industrialist and Whitman scholar, Charles Feinberg. Mr. Feinberg has also presented the University with choice examples of private press books.

AUDIO-VISUAL SERVICES

The Audio-Visual Department of the Library has two primary functions—on-campus and off-campus services. Campus users are provided with the various types of projection service. Films from Southern's library and many from other sources are provided for campus and extension classes.

The department, as an audio-visual center for Southern Illinois, provides aid to schools and other agencies. This program includes both consultation service and rental of audio-visual materials, particularly films.

The department has equipment and laboratory facilities for producing educational audio-visual materials and for microfilming books and manuscript materials.

TEXTBOOK SERVICE

As part of the services of the University Libraries, a textbook rental system is operated for the benefit of students. Each quarter students are furnished with the basic textbooks required for their courses. The books are returned at the end of the quarter, but students interested in purchasing any of them for their personal libraries may do so at a reduced cost.

ARCHIVES

As a first stage in the development of a Southern Illinois archival collection, the Library has acquired approximately 1,200 volumes of Southern Illinois newspapers, representing 69 titles from 48 communities. The University Library also has a small but growing collection of books, maps, manuscripts, and records dealing with the Southern Illinois region and is interested in acquiring further materials of this nature which will be useful in research in local history.

BIBLIOGRAPHICAL FACILITIES

To assist Library patrons in locating books, the Library has provided a central card catalog which consists of an author, subject, and sometimes title entry for all books in the University Libraries. In addition, an author and topical (shelf list) catalog is maintained in each subject library. National and book trade bibliographies, including the printed catalog of the Library of Congress, the British Museum, and the Bibliothèque Nationale, are located in the bibliography room in the main building. Periodical indexes and printed bibliographies on various subjects are housed in the appropriate subject libraries. The Audio-Visual Department maintains a printed catalog of its film holdings.

REGIONAL LIBRARY CENTER

A regional library center, serving the public libraries of Southern Illinois through consultation and supplementary book service, has been established in the General Library. The center is operated jointly by the University and the Illinois State Library, under a federal library service grant.

MUSEUM

Director John Charles Kelley, Ph.D. (Harvard)	1950
Assistant Professor Charles Henry Lange, Ph.D. (New Mexico)	1955
Assistant Professor Carroll Laverne Riley, Ph.D. (New Mexico)	1955
Instructor Esther Bennett, M.S. (Southern Illinois)	1949
Instructor Howard D. Winters, M.A. (Chicago)	1955
Research Assistant James Edward Gillihan, B.A. (Southern Illinois)	1957-58

The Southern Illinois University Museum is located on the ground floor of Altgeld Hall. It is dedicated to research and exhibition in all fields of natural sciences and social studies. The central theme of both research and exhibition is the natural environment and human occupancy of Southern Illinois. Exhibits in the new Museum quarters portray the physiography, climate, and wildlife of the region, together with the various ways of life developed by Indians, pioneer Americans, and modern citizens.

The Museum has extensive collections in the field of the natural sciences, including specimens pertaining to such studies as herpetology, mammalogy, ornithology, paleontology, mineralogy, and botany. In the social studies collections are included several thousand artifacts repre-

sentative of pioneer American life in Southern Illinois, documents of historical interest, and archeological specimens illustrative of many of the prehistoric Indian cultures of Southern Illinois, Northern Mexico, and the Southwestern United States.

In the field of history, pioneer life is vividly portrayed by a series of miniature dioramas as well as by larger displays which feature pioneer arts and crafts. Exhibits depict the wild life of Southern Illinois in its natural habitat. In the field of art, the wood carvings of Fred Meyers have attracted much attention. Six of these carvings depict typical Southern Illinois pioneers, while others are replicas of extinct and living animals.

The research program of the Museum emphasizes work in zoology, botany, history, and anthropology. The founder of the Museum, Cyrus N. Thomas, was not only a student of local natural history but also one of the pioneer archeologists of the Mississippi River valley. The Museum has issued several publications in history and zoology and plans to publish various popular and technical papers in connection with its current research program.

The Museum offers a variety of extension services. Museum teaching units and individual specimens are available for loan to Southern Illinois schools. On request, exhibits will be prepared for state and local fairs, as well as for historical and cultural observances and regional development projects. On the campus the Museum will loan specimens and, if they are desired, prepare classroom exhibits for other University departments. Museum staff members are available for public or classroom lectures in their respective fields. The Museum as a repository for specimens and collections in natural science and social studies invites donations of specimens and collections; long-term loans of such materials will be gratefully accepted. Irreplaceable scientific and historical specimens will be given proper treatment and storage in the Museum, to assure their preservation as well as to make them accessible to the people of this region.

The Museum is open to visitors from 8:00 A.M. to 5:00 P.M. on week days, on Saturdays from 8:00 A.M. until noon, and on Sundays from 2:30 P.M. to 5:00 P.M. Special hours may also be requested. Conducted tours of the exhibits may be arranged for classes and other groups.

LECTURES, ENTERTAINMENTS, AND EXHIBITS

At Southern Illinois University, the general education of the student is advanced not only by the courses required for all degrees but also by a planned program of lectures, concerts, recitals, plays, and exhibits.

In order to establish in students a continuing interest in such mat-

ters, a freshman convocation is held each week. Outstanding lecturers, musicians, artists, scientists, explorers, and educators appear before the freshmen to acquaint them with developments in various fields of interest. Attendance is required of all students classified as freshmen.

In addition, the Special Meetings Service and the Carbondale Community Concert Association bring to the campus nationally known individuals and groups. In 1957-58 some of these were the St. Louis Symphony, Rudolf Firkusny, Maureen Forrester, the Joffrey Theater Ballet, and the Henry Street Playhouse Ballet. In 1958-59 some of the artists are Jerome Hines, Michael Rabin, Eugene List with the Knickerbocker Orchestra, and an opera company including Phyllis Curtin, Delores Wilson, David Lloyd, Mac Morgan, and others. All programs are admission free to students.

Academic departments also bring to the campus nationally and internationally known experts in their fields for lectures and for conferences and workshops. The humanities lecture series on "Abstraction as Style in Art and Thought" and a science series featuring both Southern and visiting faculty members were presented the past year.

Each year the Department of Music publishes a complete bulletin of programs performed during the season, available upon request. Approximately one hundred recitals and concerts by student, faculty, and visiting artists are presented on the campus. Such artists as Robert Noehren, organist, Suzanne Bloch, lutenist, Harry Zaratzian, violist, Johana Harris, pianist, Roy Harris, composer, and Mlle. Nadia Boulanger have appeared in programs since September, 1956. Admission to all programs sponsored by the Community Concert Association and the Carbondale Friends of Chamber Music is free to the University student body. The series of weekly faculty and graduate student recitals given each Sunday afternoon in Shryock Auditorium is also admission free to students and to community music lovers.

Each year the University sponsors a Festival of Fine Arts during the spring quarter in which visiting performers, lecturers in the various aspects of the fine arts, exhibits of important art collections, and programs by selected student, faculty, and guest artists are presented as part of an integrated festival. For a copy of the annual Fine Arts Festival brochure write to the Dean, School of Fine Arts.

Regular concerts are given by the Southern Illinois Symphony Orchestra, the Symphonic Band, the University Choir, the Madrigal Singers, the Women's Choir, and the Air Force ROTC Band and Choir. The University Opera Workshop presents several full-length performances each year plus programs of operatic excerpts. The University Oratorio Society annually presents two full-length oratorios in the winter and spring seasons.

Plays are presented by the Southern Players, an extracurricular dra-

matics organization sponsored by the Theater Department. The Southern Players offer to all students, regardless of academic affiliation, opportunities for practical experience in every phase of theater art: acting, stagecraft, lighting, publicity, and business. Some of the plays presented in recent years have been *My Three Angels*, *Picnic*, *Streetcar Named Desire*, *Twelfth Night*, *Playboy of the Western World*, and *Ah, Wilderness*.

The Art Department presents a year-round program of exhibitions in the Allyn Gallery. Exhibitions are chosen with the intention of providing students and interested public with a continuous experience of viewing and judging significant and representative works of art of contemporary or historical character. Exhibitions are presented from such agencies as the American Federation of Arts, the Smithsonian Institution, the Bertha Schaefer Gallery, and the Museum of Modern Art. Important works of such recognized artists as Picasso, Matisse, Rouault, Toulouse-Lautrec are not infrequently exhibited.

UNIVERSITY HEALTH SERVICE

Director Richard V. Lee, M.D. (Illinois), University Physician, Associate Professor	1955
University Physician Jean R. Boatright, M.D. (Illinois), Asso- ciate Professor	1956-58
University Physician Katerina Kalnins, M.D. (Ludvig Maxi- millian, Munich), Associate Professor	1954
University Physician Denton B. Ferrell, M.D. (Illinois), Lec- turer	1957-58
Assistant Instructor Helen Thomas Goetz, R.N. (St. Luke's)	1946
Lecturer Herbert V. Fine, M.D. (Chicago Medical)	1958-59

The primary purpose of the University Health Service is to cultivate in students both physical and emotional health.

The most helpful basis for aid comes from the student's individual health folder, for which the Health Service collects all available data. Blank forms are sent to the student applying for admission to the University. One of these, the medical-history record, the student will process, in accordance with specific instructions and with the assistance of parent or guardian. The other, the home-physician's record, will contain that physician's findings, based upon his thorough examinations of the prospective student. Later, during orientation, the student will receive supplementary physical tests not included in his home examination. Results of these tests; all records of specialized examinations, immunizations, illness, and treatment; and all accounts of emotional upsets, of necessary communications with home physician or specialists, or of any other health

matters will be entered into a personal health folder and will be kept available for consultation and reference during the student's entire attendance at school.

Other functions of the Health Service are supervision of environmental factors which could become health hazards, and immunization against disease.

Students are encouraged to call at the Health Service when any physical or emotional condition arises to interfere with their programs. Treatment will be given or, if necessary, the student referred immediately to a hospital, clinic, or specialist. When hospitalization is needed, the student is placed in the hospital of his choice; and the cost, within a reasonable limit, is covered by the item termed "Hospitalization" included in the activity fee required of each student.

The staff of the Health Service consists of qualified, full-time physicians and registered nurses.

STUDENT WORK PROGRAM

Director Frank Clyde Adams, M.S. in Ed. (Southern Illinois), Instructor	1957
Assistant Director Roland Keene, M.A. in Ed. (Washington University)	
Research Assistant John William McIntosh, B.S. (Southern Illinois)	1956-58
Research Assistant Joseph Zimny, B.S. in Ed. (Southern Illi- nois)	1958-59

The student work program assists students in obtaining employment to defray a portion of their educational expenses as well as to gain experience while working. Since it is impossible to guarantee work to every applicant, prospective students who expect to earn part of their expenses, and who do not have definite appointments to positions before coming to college, should have means of support for at least three months. Students who expect to earn a large part of their expenses should plan to carry reduced academic loads.

The recommended work load with respect to the academic load is as follows:

SCHOLASTIC LOAD	WORK LOAD
16 quarter-hours	70 hours per month
12 quarter-hours	90 hours per month
8 quarter-hours	110 hours per month
4 quarter-hours	130 hours per month

The student work program provides job opportunities as follows:

1. Students employed on the campus are paid from \$.80 to \$1.15 per hour, based upon off-campus experiences and the number of years of satisfactory service to the University. Employment by the University on a part-time basis is provided for some 1,600 or more students in the following fields: clerical, typing, and stenographic; library, laboratory, and museum; research and survey; agricultural and gardening; janitorial, maintenance, and repair; police and security; and miscellaneous jobs.

2. Private employment is sometimes obtained by the students themselves, but the student work program receives calls for temporary or part-time jobs in the community and area and offers these to interested students. These calls are continuous throughout the year and usually require immediate placement.

3. Students are assisted in finding summer jobs at resorts, in governmental agencies, in business, and on farms, in order that they may gain experience and provide themselves with funds for the school year.

The Student Work Office is a referral agency and as such cannot promise jobs to students. However, every effort is made to place students with financial need in either on-campus or off-campus jobs.

Students employed in on-campus positions are expected to participate in pre-service and in-service training programs of departments having programs of this nature.

An application for student employment, or information about work possibilities, may be obtained by addressing the Student Work Office.

STENOGRAPHIC SERVICE

Supervisor, Bonnie A. Lockwood, Ph.D. (Pittsburgh), Assistant
Professor

1945

The Stenographic Service was activated for a twofold purpose: (1) to give faculty members access to qualified secretarial help; and (2) to train student employees so that they may give better service while employed in a student capacity.

The work performed by this Service is primarily mimeographing, duplicating, automatic typewriting, and general stenographic duties.

OFFICE OF STUDENT AFFAIRS

Director of Student Affairs and Dean of Men I. Clark Davis,
Ed.D. (Indiana)

1949

Dean of Women Mildred Schrotberger, M.A. (Wisconsin), In-
structor

1952

Assistant Dean of Men Elwyn E. Zimmerman, M.A. (Michigan State)	1958-59
Assistant Dean of Women Loretta Ott, M.S. in Ed. (Southern Illinois), Instructor	1948

The services of the Office of Student Affairs are designed to assist in developing and maintaining a suitable campus environment for all students. General administration of the Office of Student Affairs is under the supervision of the Director of Student Affairs. The Office of Student Affairs is an all-University division which co-ordinates all student personnel services not associated with academic instruction, and supervises all student activities and organizations. The units of this division include the Student Counseling and Testing Service, the Student Activities Office, and the Student Special Services Office, which includes Housing and Financial Assistance.

STUDENT SPECIAL SERVICES

STUDENT FINANCIAL ASSISTANCE

Acting Co-ordinator Ronald K. Green, M.A. (Southern Illinois)	1958-59
Assistant Co-ordinator Mary M. Beimfohr	1957

The program of student financial assistance of Southern Illinois University includes scholarships, awards, prizes, grants-in-aid, private agency awards, and student loan funds.

The comparative limitation of such forms of assistance in terms of both number and the amount available from each makes it inadvisable for an undergraduate student to expect to meet all University expenses from such means. It is strongly suggested that the student be prepared to supplement such assistance as may be granted with private funds secured from personal savings, insurance, family assistance, part-time employment in the community, or participation in the student work program at the University.

Scholarships

Scholastic potential and financial need are the two most important criteria utilized in selecting recipients of scholarships. Freshman applicants must have ranked in the upper half of their graduating class and have achieved a minimum comprehensive high school average equal to that of a "C" (3.0). Enrolled students at the University must have achieved a minimum over-all average for all course work completed at the university or college level of "B" (4.0).

The degree of need is important not only in determining the recipients of the scholarships but also in determining the amount of the assistance granted from a particular scholarship fund.

Other factors being equal, the students with the highest grade averages will be given preference in determining recipients of the scholarships.

Scholarships currently in existence at the University include the following:

Achievement Prize for Zoology Majors
 Achievement Prize for Zoology 100
 Alpha Phi Omega Scholarship Fund (Zeta Nu Chapter)
 Borden Freshman Prize
 Donald Forsythe Unit #514 Scholarship (American Legion Auxiliary)—Carbondale, Illinois
 Elsie Bain Scholarship in Nursing (Women's Auxiliary of Holden Hospital)—Carbondale, Illinois
 Francis Marion Hewitt, Sr., Scholarship in Art
 Fraternal Order of Eagles, Murphysboro Aerie #670 Scholarship—Murphysboro, Illinois
 Girls' Rally Scholarship
 Illinois Congress of Parents and Teachers Association Scholarships (Special Education)
 Illinois Congress of Parents and Teachers Association Scholarships
 Joe Dougherty and Don Cross Scholarship (Tau Kappa Epsilon)
 Johnson Foundation Chemistry Scholarship
 June Vick Memorial Scholarship (Beta Sigma Phi)—Carbondale, Illinois
 Leah M. Reef Memorial Scholarship
 Plumbers and Steamfitters Local #160 Scholarship—Murphysboro, Illinois
 President's Awards
 Presser Foundation Music Scholarship
 Roscoe Pulliam Memorial Alumni Scholarship
 Southern Illinois University Faculty Mine Memorial Scholarship
 Thelma Louise Kellog Scholarship
 Western Electric Scholarship

Awards

Financial assistance is occasionally granted to students who have evidenced superior potential either at the high school or the university level in either scholarly or co-curricular endeavors, or both. Freshman applicants for awards are required to have ranked in the upper half of their

graduating class or to have achieved a minimum comprehensive high school average of "C." Enrolled students must have achieved a minimum over-all average of "C" (3.0) for all work completed at the college or university level.

As a part of the award program, the Board of Trustees of the University has established 350 tuition awards known as Southern Illinois University Scholarship and Activity Awards. Awards currently in existence at the University include the following:

Anita Ray Early Memorial Scholarship
Carbondale Lions Activity Award
District I-C Lions of Illinois Award (Teachers of the Mentally Retarded)
Floyd Wakeland Memorial Award in Music
Illinois Poultry Improvement Association Award
Jefferson County Parent Group Award (Teachers of Mentally Retarded Children)
Men's Residence Halls Service Award
Murphysboro BPOE #572 Scholastic Scholarship—Murphysboro, Illinois
Pinckneyville United Organizations Scholarship Fund—Pinckneyville, Illinois
Prairie Farmer Publishing Company Scholarship in Agricultural Journalism
Sahara Coal Company Awards in Forestry
Saluki Award Fund
Southern Illinois Editorial Association Award (Community Journalism)
Southern Illinois Symphony Orchestra Awards
Southern Illinois University Scholarship and Activity Awards
University Women's Club Award
Woody Hall Service Award

Prizes

A limited number of prizes are awarded to students who have evidenced superior achievement in specific areas or departments of the University. These prizes frequently take the form of books, medals, or trophies, and are presented at various times during the year. Eligibility varies considerably from one prize to another. Interested students are invited to consult the specific departments or groups concerned with selecting the recipients for further details. Prizes currently in existence at the University include the following:

Betty Rhodes Scholarship Award (Alpha Gamma Delta)

Janice Neckers Memorial Scholarship (Sigma Sigma Sigma)
 Mallarmé Prize in French Studies
 Phi Beta Kappa Prize
 Sigma Pi Memorial Fund

Grants-in-Aid

Frequently, organizations or individuals establish funds at the University to assist certain students with their educational expenses. Usually such students are selected by the donor although recommendations are sometimes made through the Scholarships and Loans Committee or the various departments of the University. Specific criteria, including grade requirements, used for the selection of recipients of these grants are established by the donor. Grants-in-aid currently in existence at the University include the following:

American Legion Paul Stout Post #127—Murphysboro, Illinois
 Aviston Chamber of Commerce Scholarship—Aviston, Illinois
 Beverly Hills University Club Scholarship Foundation—Beverly Hills, Illinois
 B'nai B'rith Federation Scholarship Exchange
 Bonalyn Chism Scholarship Award—Bone Gap, Illinois
 Cahokia Commonfields High School Student Council Grant—East St. Louis, Illinois
 Carbondale Business and Professional Women's Club Scholarship—Carbondale, Illinois
 Carbondale Community High School P.T.A. Scholarship—Carbondale, Illinois
 Collinsville Education Association Grant—Collinsville, Illinois
 Dillard High School Scholarship Fund Grant—Ft. Lauderdale, Florida
 Egyptian Association Grants-in-Aid (Teachers of Mentally Handicapped Children)
 Egyptian Broadcasting Company Incorporated Radio Station WJPF Grant—Herrin, Illinois
 Elijah P. Lovejoy Memorial Grant—Alton, Illinois
 Granite City Scholarship Foundation—Granite City, Illinois
 Junior Minerva Club of Granite City Grant—Granite City, Illinois
 Mount Olive Association Scholarship
 Murphysboro Shrine Club Scholarship—Murphysboro, Illinois
 Southern Illinois University Student Refugee Fund
 Washington Street Baptist Church Grant—Paducah, Kentucky
 West Frankfort Business and Professional Women's Club Award—West Frankfort, Illinois

Private Agency Awards

A number of industries and private organizations provide funds to individual students, either directly or through the Scholarships and Loans Committee, to assist them with their educational expenses. The requirements basic to each of these awards are specified by the individual donors and generally application is made directly to the donor. The University will assist interested students in applying for such awards.

Private agency awards currently in existence at the University include the following:

Alcoa Foundation Scholarship Fund
 Frank Gannett Newspaperboy Scholarship
 Henry L. Doherty Educational Scholarship
 National Honor Society Scholarship
 Stonefort American Legion Post #400 Scholarship—Stonefort,
 Illinois

Generally, the five types of assistance summarized above are limited to students who have been in residence at Southern Illinois University for a minimum of one academic quarter. An exception to this limitation, however, is the 350 Southern Illinois University Scholarship and Activity Awards covering remission of tuition (but not fees).

In addition to the minimum scholastic average, the degree of financial need is generally an important requirement in determining the recipients of many of the forms of financial assistance available.

Before a student's application for any of the forms of financial assistance can be considered, it is necessary that he submit an application for admission to the University. This should be done shortly after the close of the applicant's seventh semester of high school. Proper forms may be obtained from the Admissions Office of the University.

Completed applications for all forms of financial assistance allocated by the Scholarships and Loans Committee of the University must be submitted between January 1 and March 15 of the year prior to the September the applicant wishes to be considered for the award. Applications to be considered for awards to be made at other times during the year should be submitted within the period specified at the time the application is obtained.

Applicants for assistance to become effective in the fall will be notified of decisions concerning their applications between August 1 and the opening of the fall quarter.

Student Loan Funds

Through the generosity of friends of the University, several loan funds have been established to be used by needy and deserving students

who require financial assistance of a temporary nature. There are two basic requirements which are applicable to most of these funds: (1) The applicant must be more than a first-quarter student and (2) he must have a minimum over-all University grade-point average of "C" (3.0). Amounts which may be borrowed vary with the individual loan funds and the amount available at the time the request is made. Generally, freshman and sophomore students are permitted to borrow a maximum of \$50; juniors, seniors, and graduate students are permitted to borrow up to \$150. In addition, there are a limited number of private agencies from which students may borrow in amounts not to exceed \$600 per year. The rate of interest and method of repayment vary with the particular loan fund but the usual rate of interest on funds administered directly by the University is 3 per cent per year. Student loan funds currently in existence at the University include:

- Carbondale Rotary Club Student Loan Fund
- Emergency Student Loan Fund
- General Student Loan Fund
- Harwood Hall Student Loan Fund
- Helen A. Shuman Memorial Fund
- Henry Strong Educational Foundation
- Householder's Loan Fund
- Illinois Congress of Parents and Teachers Loan Fund
- Interfraternity Council Student Loan Fund
- Jane Holloway Loan Fund
- Lucy K. Woody Student Loan Fund
- Malvine Beck Educational Student Loan Fund
- Mary M. Steagall Memorial Student Loan Fund
- Men's Residence Halls Loan Fund
- William and Mary Gersbacher Student Loan Fund
- William McAndrew Memorial Student Loan Fund
- W. O. Brown Student Loan Fund
- Women's Physical Education Loan Fund
- W. W. Vandever Student Loan Fund

State Teacher Education Scholarships

State scholarships are awarded each year through the office of the State Superintendent of Public Instruction to selected students who plan to enter the teaching profession. Graduates of recognized high schools who are in the upper half of their graduating classes are certified by the principals to county superintendents, who transmit these names to the Superintendent of Public Instruction. The Superintendent, in turn, may award scholarships to the highest-ranking graduates who signify their intentions to prepare to teach in the Illinois public schools. The scholar-

ship covers the student's tuition and activity fees. Holders of these scholarships must apply for admission to the University not later than August 15 of the year in which the scholarship is awarded. Such a student must be registered in a teacher training program while using the scholarship. If a scholarship holder does not register for the next regular quarter following receipt of the scholarship, or if, having registered, he withdraws from the University, he forfeits his scholarship. Any student holding a scholarship who needs a leave of absence for the purpose of earning funds to defray his expenses while in attendance, on account of illness or because of entrance into military service, may be granted such leave and allowed a period not to exceed six years in which to complete his course at the University. Request for a leave of absence should be addressed to the Registrar. A forfeited scholarship may be issued to the next highest-ranking student as shown on the list submitted to the Superintendent of Public Instruction.

State Scholarship Act

The state scholarship program established with Illinois House Bill No. 380 (State Scholarship Act) is applicable at Southern Illinois University. Interested students should consult their local high school office for complete information on the program.

Holders of state scholarships on Southern's campus have a special adviser to assist them in working out the programs of study best suited to their needs.

Federal Assistance for Veterans of Military Service

Educational benefits for most veterans of World War II have lapsed. A person having a service-incurred disability may qualify as a recipient of benefits under Public Law 16 or 894, the latter being an amendment to Public Law 16. Public Law 16 is intended for veterans who received their disability between September 16, 1940, and July 25, 1947, while Public Law 894 is intended for veterans who received their disability between June 27, 1950, and an unestablished date in the future. Under Public Laws 16 or 894 the veteran's tuition, fees, special equipment and supplies, and subsistence will be paid for by the United States Government through the Veterans Administration.

Persons who have been in active military service between June 27, 1950, and January 31, 1955, who have served at least ninety days, and who have been discharged under conditions other than dishonorable may be eligible for educational benefits under the Veterans Readjustment Assistance Act of 1952 (Public Law 550 or "Korean G.I. Bill"). Application forms and more complete information concerning these benefits may be obtained from the Registrar's Office or the Office of Student Affairs, the Veterans Administration, or the local Illinois Veterans Commission

Office. Veterans are urged to apply for training at least two months prior to enrolling.

Experience has shown that a period of two or three months elapses before a veteran participating in such a program receives his first check. It is advisable, therefore, that each veteran be prepared to finance himself in the first two or three months during his first quarter in attendance at the University.

Public Law 634

Benefits under Public Law 634 are available to the child or children of a person who died of an injury or disease incurred or aggravated in the line of duty in active service in the Armed Forces during World War I, World War II, or the Korean conflict and whose service did not terminate under dishonorable conditions. In addition, if the veteran's child served on active duty with the Armed Forces he must have been separated under conditions other than dishonorable.

Payments cannot be made while the veteran's child is serving on a tour of duty with the Armed Forces. In general the same rules apply to this law as to Public Law 550. Application forms may be obtained at the Registrar's Office, the Veterans Administration, or the local Illinois Veterans Commission Office.

Vocational Rehabilitation

Under the State Board for Vocational Education is a division for the vocational rehabilitation and placement in remunerative employment of persons whose capacity to earn a living is or has been impaired. This includes those with physical handicaps of various kinds. Approved students receive all registration and tuition fees, book rental, and school supplies for nine months a year.

Persons who wish to consult with a representative may call at the Carbondale Field Office located at 416 South Illinois Avenue. Mr. Louis Vieceli is the counselor in charge of this office. Students from other parts of the state now receiving training through the State of Illinois Division of Vocational Rehabilitation may consult any representative of the Board.

Illinois Military Scholarship

Any person who served in the Armed Forces of the United States during World War I or World War II (including all service between September 16, 1940, and an undetermined date to be established in the future) may be eligible for the benefits of the Illinois Military Scholarship. To be eligible a person must have been (1) a resident of the state of Illinois at the time of entering the service; or, if not an Illinois resident, a student at Illinois State Normal University, Northern Illinois University,

Eastern Illinois University, Western Illinois University, Southern Illinois University, or the University of Illinois at the time of his enlistment or induction; and (2) honorably discharged.

This scholarship is awarded for four calendar years or for sufficient time to enable the veteran to complete his course of study provided this time does not exceed four calendar years. It may be used for resident or off-campus study and covers matriculation, tuition, and activity fee. Application for this scholarship should be directed to the Registrar's Office and must be accompanied by a copy of the discharge. Award will be made only to veterans possessing all necessary entrance requirements.

After a veteran has been awarded a scholarship, he must use it on a continuing basis. Any period of absence not covered by an approved leave of absence will result in the loss of the scholarship. Leaves may be granted for a maximum of two years for reasons of illness, to earn funds to defray expenses while in attendance, or to enter military service. Requests for leaves of absence should be directed to the Registrar's Office.

The Governor's Committee for Veterans' Rehabilitation and Employment

This committee will assist any veteran, but gives aid primarily to ex-servicemen and ex-servicewomen with impaired health or with limited physical abilities. Such persons may receive at state expense vocational training and education, plus health restoration treatments and prosthetic appliances. After proper training, they are given assistance in obtaining employment.

Graduate students should refer to the Graduate School Bulletin for information concerning assistantships and fellowships.

HOUSING

Dean Mildred Schrotberger, M.A. (Wisconsin), Instructor	1952
Co-ordinator of Student Housing William M. Rogge, M.S. (Wisconsin), Instructor	1951
Educational Co-ordinator, Thompson Point Erwin D. Stasek, Ph.D. (Northwestern), Assistant Professor	1955
Supervisor of Off-Campus Housing Mabel Pulliam	1945
Head Resident of Chautauqua Street Housing Carlton F. Rasche	1951
Head Resident of Southern Acres Residence Halls Joseph L. Budde, B.S. in Ed. (Southern Illinois)	1954-58
Head Resident of Dowdell Halls and Illinois Avenue Residence Hall James M. Burgoyne, M.B.A. (Wisconsin), Instructor	1955-58
Head Resident of Woody Hall Carolyn P. Pennington, M.S. (Wisconsin), Instructor	1957

Building and Operations Manager Guy J. Moore, B.S. (Southern Illinois)	1957
Business Manager of Woody Hall Maxine Vogely, A.M. (Cornell), Instructor	1947-58
Resident Counselor Donald B. Stone, M.S. (Illinois)	1957-58
Resident Counselor Raymond L. Foster, M.A. (Missouri)	1955-59
Resident Counselor Marian Hopkins, B.A. (Oberlin)	1958-59
Resident Counselor Frances Goodhue Loder, B.L. (Northwestern)	1957-59
Resident Counselor John Joseph McCall, Ph.D. (Florida State)	1957-59
Resident Counselor Harold J. Shay, M.A. (Notre Dame)	1958-59
Resident Counselor in Woody Hall Sylvia Curtis	1957-58
Resident Counselor Blanche Ganahl, B.S. (St. Louis)	1957-58
Resident Counselor in Woody Hall Sue L. New	1956-58
Resident Counselor Wilfred B. Nightingale, B.A. (Harvard)	1957-58

Southern Illinois University considers it a major responsibility not only to provide adequate physical facilities for student housing but also to provide in them experiences which contribute to the total educational program of the University. This total program includes opportunities for participation in cultural, recreational, and social activities, for personal counseling of individual students, and for then assuming responsibility to develop democratic student self-government.

University Housing

Students who desire to live in University residence halls are advised to make application early. Application forms may be obtained from the Housing Center, Office of Student Affairs. Contracts are not offered a student until he has been officially admitted to the University; however, admission to the University does not guarantee housing. The University establishes its rates in keeping with current costs and reserves the right to change the rates quoted should the cost of food and operations warrant. Contracts in the residence halls are for the entire school year.

Currently available University housing includes the following units.

WOMEN'S HOUSING UNITS

Woody Hall provides living quarters and dining facilities for 432 women.

Thompson Point Halls provide accommodations for 244 women. A central dining-recreation hall serves both men and women.

Southern Acres Co-operatives provide apartments for 24 women on the Vocational-Technical Institute campus located ten miles from Carbondale. Residents do all of their own preparation of meals and house cleaning.

MEN'S HOUSING UNITS

Chautauqua Co-operatives provide facilities for a limited number of men to live in groups of six. They assume responsibility for all of their preparation of meals and house cleaning.

Dowdell Halls are temporary living quarters for 209 men.

Southern Acres Halls are temporary living quarters for 267 men on the Vocational-Technical Institute campus located ten miles east of Carbondale. Meals are obtained at the University Cafeteria.

Thompson Point Residence Halls provide housing for 488 men students in buildings which accommodate 122 men per building. A central dining-recreation hall serves both men and women.

FAMILY HOUSING UNITS

Chautauqua Street Apartments, located on the main campus, and Southern Acres Apartments, located on the Vocational-Technical Institute campus, provide housing for students with families. Each apartment has a kitchenette, living room, bathroom, and one, two, or three bedrooms. At Southern Acres bus transportation is furnished for children of school age.

The University Trailer Court located at the corner of Park and Wall streets has spaces for 62 trailers. Water, sewage, and laundry facilities will be furnished by Southern at a probable cost of \$20.00 per month. The student will provide the trailer, heat, and electricity.

Additional facilities are in planning and construction stages for 405 students in group housing and 144 apartments for families. Further information may be obtained from the Housing Center, Office of Student Affairs.

COST OF UNIVERSITY HOUSING

UNIVERSITY RESIDENCE HALLS	COST PER YEAR*
Woody Hall	\$666.00
Thompson Point Halls	\$666.00
Dowdell Halls	\$135.00-\$162.00 (no food)
Co-operatives	\$150.00 (no food)
Southern Acres Halls	\$513.00-\$540.00
Married Housing	\$36.50-\$46.50 per month (no food)

Off-Campus Housing

An up-to-date list of room vacancies for men and women in private homes is maintained in the Housing Center, Office of Student Affairs. Those rooms meeting minimum housing standards are noted. Renting of these rooms by mail is not satisfactory.

* Subject to change.

Included in these listings are about forty-five organized houses which elect house officers and carry on group activities. Very few off-campus houses provide meals, which ordinarily must be obtained in various cafeterias on and off campus.

Fraternity and sorority houses have a few spaces, but ordinarily pledges should plan on living elsewhere until their second year of school. If they live in residence halls, this is necessary because of the contract for one year.

Room rent ranges between \$5.00 and \$6.00 per week for most rooms. Meals at cafeterias will cost from \$10.00 to \$15.00 per week, depending on the individual.

STUDENT ACTIVITIES OFFICE

Co-ordinator of Student Activities Elizabeth I. Mullins, M.Ed.

(Illinois), Instructor

1957

Lecturer Barbara T. Stevens, M.S. (Indiana)

1957-59

Lecturer Charles Henry Wildy, M.S. in Ed. (Southern Illinois) 1956-57

Southern Illinois University encourages a broad program of student activities with opportunities for all students to participate. These organizations are varied so that each student may find some group or activity which is of special interest to him.

The Student Activities Office assists all campus groups and individuals in planning, conducting, and evaluating their activities and programs. Additional information may be obtained from this office.

The range of activities covers student governing groups; departmental, honorary, and professional organizations; service groups; social fraternities and sororities; special interest groups; religious organizations; and all-campus committees for special events.

STUDENT GOVERNING GROUPS

Student Council

The Student Council, elected by the student body and composed of two men and two women from each class, is the official organization designated to represent the students in matters pertaining to student welfare, student activities, student participation in University affairs, student participation in University planning and administration, and student opinion.

Social Senate

The Social Senate, composed of representatives from fifteen campus groups, is a standing committee of the Student Council and assists in the

development of a well-rounded social program for the campus. The group recommends rules and regulations governing student social activities and approves all student money-raising functions.

Student Union Board

The program of the Student Union Board provides activities and facilities for all students of the University. Some of the activities planned are dances, coffee hours, movie hours, hayrides, tournaments, and special interest programs. These activities are all free to the students.

Association of Women Students

The Association of Women Students is an association of all women students enrolled in the University. The officers, working closely with the Dean of Women, recommend rules and regulations for women students and assist with the maintenance of these regulations through the A.W.S. judiciary council.

Living Group Councils

Each organized living center has student officers who, with the group, plan and execute activities. In addition, each living center sends student representatives to student governing and programming councils. These groups include the University residence halls, off-campus living centers, fraternities, and sororities.

DEPARTMENTAL, HONORARY, AND PROFESSIONAL ORGANIZATIONS

Departmental Clubs

Most of the departments on campus have their own interest groups. These groups are open to all those interested in a particular academic area and provide opportunities for students to become better acquainted with the faculty and to investigate further their special interests.

Honorary Societies and Professional Fraternities

Students outstanding in academic achievement or in special fields may be eligible to belong to many of the national and local honorary and professional organizations existing on Southern's campus. Membership serves as a means of becoming better acquainted with others in the same field and gives professional recognition often valuable after graduation.

SOCIAL FRATERNITIES AND SORORITIES

Southern has seven national sororities and nine national fraternities. Most of the groups maintain their own houses. The Panhellenic Council serves as a governing group for the sororities and the Interfraternity Council serves as a governing council for the fraternities.

SPECIAL INTEREST GROUPS

Groups organized to bring together those individuals with similar interests provide opportunities to develop these interests and in some cases to represent the University in competitive meets or in other programs involving intercollegiate groups. Among the several groups in which students are encouraged to participate are debate teams, which represent the University in intercollegiate competition; the Southern Players for students with dramatic interests; and opera workshops, symphony orchestras, and the University bands for those students with musical talent and interests. Other special interest groups include the AF ROTC Honor Guard, Rifle Team, and Angels Flight, an interest group for women. In addition, the recreation and outdoor education department has a year-round recreational program of a varied nature. Hobby groups, such as the Chess Club, are organized in the Student Union and in many of the living centers.

RELIGIOUS ORGANIZATIONS

Every student at Southern has an opportunity to find his "church away from home." Many denominational groups have formed student religious foundations. Foundations close to campus provide space for relaxation, meetings, and religious services. All recognized groups send representatives to the Interfaith Council to plan an active Religion-in-Life Week during the winter quarter.

SERVICE ORGANIZATIONS

Southern's chapter of Alpha Phi Omega for men and the Girls' Rally organization for women, offer an opportunity for students to share in planning and providing many services for the campus during the school year. One such service is the publication by Girls' Rally of an annual calendar of events.

SPECIAL EVENTS

Many special events are planned and carried out by student steering committees. Chairmen of these events are elected at an all-campus election or appointed by the President of the Student Council. These chairmen, in turn, appoint chairmen of various committees for the events, and the committee chairmen comprise the steering committees. These events include New Student Week, Freshman Leadership Camp, High School Guest Day, Parents' Day, Homecoming, Spring Officers' Leadership Camp, Greek Week, and Spring Festival.

Outstanding weekend events are Homecoming in the fall, the Military Ball and the Theta Xi All-School Variety Show in the winter, and Spring Festival in May.

LEADERSHIP TRAINING

Special emphasis is placed on giving students an opportunity to handle themselves in discussion groups. In the fall a special Leadership Camp is held for entering students, and in the spring a special camp is held for officers of campus organizations. In addition many of the groups conduct their own workshops to discuss their own interests and needs and develop leadership.

STUDENT COUNSELING AND TESTING SERVICE

Co-ordinator of Counseling and Testing Jack W. Graham,

Ph.D. (Purdue), Associate Professor	1951
Assistant Professor Lawrence Taliana, Ph.D. (Purdue)	1957
Instructor Wilbur Ray Venerable, M.A. (Kentucky)	1957

The Student Counseling and Testing Service is staffed with professional counselors who are able to discuss and explore freely any problem or plan that may concern the student. All counseling is on a voluntary basis and all interviews are confidential.

The Student Counseling and Testing Service is approved by the Committee on Professional Practices of the American Personnel and Guidance Association. Services to students are provided without charge. When special testing is needed to assist in counseling, it may be arranged for through the Service.

Close co-operation is maintained with the clinical center and the Department of Guidance in providing counseling services. When special services are needed, a counselor can refer a student to the Academic Advisement Program, Student Health Service, Speech and Hearing Clinic, Marriage Counseling (in the Department of Sociology), and related departments.

PRE-COLLEGE COUNSELING

High school seniors who are contemplating entering college may obtain counseling to assist them in their decision concerning the type of program they might best pursue. General information regarding college and university admission and graduation requirements is provided.

Visits each year are made to high schools by staff members from the University to supplement the educational and vocational counseling provided by the high schools.

VOCATIONAL INFORMATION

The Student Counseling and Testing Service has a file of selected pamphlets, monographs and books cataloged to afford authentic infor-

mation about vocational requirements, trends, and opportunities. A similar file is provided in the Education Library of the University Library.

VETERANS' AND MILITARY SERVICE INFORMATION

Veterans who need information about the benefits to which they are entitled or assistance in filing claims may seek the services of the Student Counseling and Testing Service. Forms for receiving these benefits may be obtained and completed in the Registrar's Office.

An up-to-date file of literature and reports on all branches of the military service, as well as of current information of interest to college students regarding the Selective Service System, the military reserve program, and special training programs, is maintained. Reports on a student's status and academic progress are made by the Registrar's Office to the appropriate Selective Service System Board.

STUDY SKILLS

A course in reading and study techniques is regularly offered by the staff of the Department of Elementary Education. Students who have a desire to improve their reading skills or study habits should enroll in this noncredit program. General assistance in improving study skills and in making more effective use of time is provided by the counseling staff on an individual basis.

MARRIAGE COUNSELING

A staff member of the Department of Sociology is available for conferences with students on premarital and marital problems. Appointments may be made directly through the Department of Sociology.

TEST ADMINISTRATION

In addition to the extensive individual testing completed in conjunction with counseling, the Counseling and Testing Service also administers various testing programs for selection, placement, and research purposes.

STATE AND NATIONAL TESTING PROGRAMS

On the first Friday and Saturday of each month, the Counseling and Testing Service administers the Tests of General Educational Development. Residents of Illinois over twenty-one years of age who desire to earn high school diplomas through this program should write the Student Counseling and Testing Center for further details.

Southern Illinois University administers the tests for the Illinois State-wide Scholarship Program on the Carbondale campus and also at the East St. Louis and Alton residence centers.

Several national testing programs, such as the Graduate School Selec-

tion Examination, the Medical College Admission Test, and the Law School Admission Test, are administered each year for students seeking entrance to graduate or professional schools. The Selective Service College Qualification Test and the College Entrance Examinations are given on the announced dates. Information regarding the above tests and other examinations administered throughout the nation may be obtained by consulting the Student Counseling and Testing Service.

CORRESPONDENCE COURSE FINAL EXAMINATIONS

Students desiring to take the final examinations for correspondence courses from other universities may consult the Counseling and Testing Service in order to take the examination under approved supervision.

TEST SCORING AND RESEARCH SERVICE

An electric scoring machine is available for scoring tests for faculty members, academic departments, research programs, as well as schools in the area. Assistance in the construction and standardization of objective tests is provided by staff members. Educational research projects relating to the general responsibilities of the Office of Student Affairs are carried out by the staff.

CO-OPERATIVE CLINICAL SERVICES

Co-ordinator Alden M. Hall, B.S. (Bradley)	1953
Professor I. P. Brackett, Ph.D. (Northwestern)	1951
Professor Noble H. Kelley, Ph.D. (Iowa)	1951
Professor W. A. Thalman, Ph.D. (Cornell)	1929
Associate Professor Jack W. Graham, Ph.D. (Purdue)	1951
Associate Professor Herman B. Lantz, Ph.D. (Ohio State)	1951
Associate Professor Richard V. Lee, M.D. (Illinois)	1955
Associate Professor B. Elizabeth McKay, Ph.D. (Syracuse)	1952
Associate Professor Guy A. Renzaglia, Ph.D. (Minnesota)	1955

Beginning with the Child Guidance Clinic, which was established in 1936, the University has provided a variety of clinical services to its own students, to the public schools and to the general public.

The various clinical services have now been co-ordinated so that persons interested can more easily apply for information, schedule meetings with consultants, and be referred to the proper agency or agencies for specific services.

Persons wishing to make use of any of the services participating in the Co-operative Clinical Services Center may write directly to the Co-

ordinator for an appointment. Facilities have been arranged in such a way that a person who may need the assistance of several specialties may receive this service in the one center.

The Child Guidance Clinic examines various cases which are brought to the campus throughout the year, particularly those of children having difficulties in their school subjects or in environments in which they are not understood. The Clinic also provides consultive services to teachers, guidance directors, and school administrators in area schools; to parents; and to various public officials and agencies concerned with children.

The University Health Service promotes individual and general health in the University community by means of a comprehensive medical program. This is primarily a student service. Consultive assistance to other University services is available.

The Department of Sociology provides marriage counseling services for the single as well as the married person. The services are available to all students and their families. Emergency off-campus cases are also handled whenever time permits.

The Psychological Clinic offers professional services in psychological evaluation, diagnosis, and treatment. Evaluation includes intellectual assessment and comprehensive personality appraisal. Treatment includes counseling, play therapy, and more extended and intensive psychotherapy. Services are available to students, to children, and to their parents and other adults.

The Reading Center helps students to improve their reading skills and study habits and serves as a laboratory for teachers in training as reading specialists. Referrals are accepted from the area schools as time permits. Consultant services to teachers of reading in the elementary schools are also provided.

Under the general supervision of the Rehabilitation Institute, special services are provided to handicapped students and, as time and facilities permit, to handicapped nonstudents as well. The staff works closely with allied services in providing medical consultive service, physical therapy, occupational therapy, and general and vocational rehabilitation counseling. Appropriate medical specialists will be called in for consultation and prescription of treatment of individuals. Physical therapy, supervised and prescribed by medical authorities, is available to assist handicapped and temporarily disabled individuals in acquiring skills for daily living and through progressive exercises to help restore residual muscular potentials.

Rehabilitation counseling provides for individual appraisal and diagnosis, general counseling pertaining to matters that handicapped individuals find troublesome, uncertain, or distracting, and the development of realistic educational and vocational plans.

The Department of Special Education works directly with the Child Guidance Clinic in assisting the mentally retarded and those having special handicaps. A special program for preschool age deaf children with intensive parent counseling operates daily. Specialized services for selected trainees are provided at the Southern Acres campus.

The Speech and Hearing Clinic is designed to assist those persons who have speech and hearing deviations which handicap them in the normal pursuits of everyday life. This is accomplished through a thorough evaluation of the individual's problems, consultation with those concerned, and, when advisable, the scheduling of regular therapy sessions. The following areas come within the scope of the clinic: hearing testing and hearing aid evaluations, training in use of residual hearing, teaching of lip reading, articulatory disorders and delayed speech, stuttering, cleft palate, cerebral palsy, voice disorders, aphasia, and speech training for the laryngectomized.

The Student Counseling and Testing Center provides a setting designed to assist college students grow in self-understanding so they may use their assets productively and plan realistic goals for themselves. The Center provides personal, educational, and vocational counseling and, when needed, arranges for psychological testing and the interpretation of the results.

High school seniors who are contemplating entering college also may obtain counseling at the Student Counseling and Testing Center. Adults desiring to earn high school diplomas through the Tests of General Educational Development may do this through the Center. Test-scoring service for area schools is provided.

UNIVERSITY STATISTICAL SERVICE

Acting Director Philip J. Cochrane, B.S. (Illinois)	1956
Associate Professor A. M. Mark, Ph.D. (Cornell)	1950

Among the various offices of the University serving both on-campus and off-campus groups is the University Statistical Service.

The Statistical Service is concerned with the processing of data concerning Southern Illinois and the programs and activities of the University. In addition, the Statistical Service offers technical assistance to various campus offices and research projects.

To facilitate this work, the Statistical Service maintains a tabulating office equipped with punched-card machines. The tabulating office also acts as a service unit for those offices which can make use of punched-card equipment.

PRINTING SERVICE

Assistant Supervisor Howard Newton Pepple, M.S. in Ed. (Southern Illinois)	1957
Instructor Harold Schwarm, M.A. (Bradley)	1955

The Printing Service is equipped and staffed to handle virtually all the printing needs of the campus. Its services are equally available to all University departments and offices.

In addition to offset and letterpress printing, art service is available. Persons seeking assistance in design and art on their printed pieces should go directly to the Printing Service.

UNIVERSITY PRESS

Director Vernon A. Sternberg, M.A. (Wisconsin), Assistant Professor	1956
Assistant Professor Sina K. Spiker, Ph.D. (Wisconsin)	1956
Instructor Raymond Paul Fassel, M.A. (Wisconsin)	1956
Assistant Instructor Albert Bryan Mifflin, B.S. (Southern Illi- nois)	1957

The University Press was established in 1953 to carry out the publishing function of the University. Since 1958, the Press has been a member of the Association of American University Presses. Publications of the Press include a number of monograph series and an Occasional Publications series, as well as works of scholarship of more general interest. A list of Press books may be found in the publishers' *Trade List Annual*.

The Press also serves the educational units of the University requiring editorial assistance for their occasional publications.

OFFICE OF THE UNIVERSITY ARCHITECT

Director Charles M. Pulley, B.S. (Illinois)	1951
Supervisor Carl Edward Bretscher, B.S. (Illinois)	1957
Construction Supervisor Willard C. Hart, B.S. (Illinois)	1950
Associate Professor Herbert Dennis White, Ph.D., Mus.D. (Leipzig)	1957
Landscape Architect John F. H. Lonergan, A.B. (Illinois)	1950
Instructor Richard W. Anschutz, B.S. (Kansas)	1956

The Office of the University Architect is concerned with the design and construction of University buildings and with the landscaping of the campus. The members of the staff are available to advise and instruct students interested in architecture.

PHYSICAL PLANT

Director W. A. Howe, M.S. (Illinois)	1949
Assistant Professor William M. Marberry, A.M. (Illinois)	1939

The Physical Plant Office is concerned with the operation and maintenance of the physical plant, including the maintenance and repair of buildings, utilities distribution systems, equipment, and other property; the care of sidewalks, drives, lawns, and shrubbery; the operation of the heating plant and the transportation service; and the maintenance of general safety and sanitary conditions in the buildings and on the grounds.

AREA SERVICES OFFICE

Director William J. Tudor, Ph.D. (Iowa State)	1948
Assistant Director Rex D. Karnes, M.A. (Southern Illinois)	1955-59
Associate Professor Donald G. Hileman, Ph.D. (Illinois)	1955
Supervisor of Broadcasting Buren C. Robbins, M.A. (Iowa)	1949

As the only fully accredited institution of higher learning in the southern counties of Illinois, Southern Illinois University has special obligations to its region and therefore attempts to make its facilities available to various community, county, and regional groups. This work is carried on through the Area Services Office and its affiliated offices (the Information Service, the Placement Service, the Community Development Service, and the Alumni Office).

Meetings and conferences on the campus that are under the sponsorship of responsible off-campus organizations and groups are arranged through the Area Services Office. In addition, the Office arranges to take out into the communities of the area various programs, activities, and resources of the University which may be useful to the citizens of Southern Illinois.

The Area Services Office is not, however, to be confused with the Divisions of Extension and of Technical and Adult Education, which conduct the off-campus instructional activities of Southern Illinois University.

The University is equipped with complete and technically professional radio studios, in which a large number and variety of radio programs, from all departments of the University as well as from the Southern Illinois community, are produced under the auspices of the Area Services Office. These air shows, utilizing the talents of students, University staff members, and citizens of the area, are designed for both information and entertainment and are broadcast over about eight of the Southern Illinois area radio stations on regular schedules.

Periodic auditions are held, and participants are welcomed from all departments of the University.

COMMUNITY SERVICES

Director Richard W. Poston, B.A. (Montana)	1953
Assistant Director Robert Edward Knittel, B.J. (Missouri)	1956
Assistant Professor Frank A. Kirk, M.A. (Chicago)	1957
Community Consultant James Burrell Aiken, M.S. in Ed. (Southern Illinois)	1956
Community Consultant George T. Boyce, B.A. (Wooster)	1957-59
Community Consultant Boyd Boucher Butler, B.S. (Southern Illinois)	1956
Community Consultant Robert Chase Child, M.A. (Southern Illinois)	1956
Community Consultant George L. Criminger, M.S. (Southern Illinois)	1957-59
Community Consultant Jerry Joe Fear, B.A. (Southern Illinois)	1956-59
Community Consultant Gene Herbert Graves, B.S. (Southern Illinois)	1958-59
Community Consultant Robert S. Henderson	1956
Community Consultant E. Frederick List, M.A. in Ed. (Washington University)	1957
Community Consultant Frank H. Sehnert, B.S. (New Hampshire)	1955
Community Consultant Ralph White, B.S. (Southeast Missouri)	1958-59
Community Consultant Braxton B. Williams, B.S. (Southern Illinois)	1957
Assistant Supervisor Anna L. George	1958

The University Community Service has as its objectives the stabilization and enrichment of life in the small communities as well as in the large centers of the area. It attempts to make available to the people of

the area within the context of their own communities and occupations the University's resources in social and economic knowledge and its leadership in the cultural and community arts.

To these ends it sets up projects designed to explore the specific problems of the communities and to train local leaders able in some measure to meet them.

The University Community Service also invites to the University leaders in various fields in the communities of the area; and through small conferences and larger conventions, as well as various other media, it attempts to bring into closer association the best thinking both of the area and of the University.

ALUMNI OFFICE

Director John Robert Odaniell, B.S. in Ed. (Southern Illinois)	1951
Field Representative Jacob William King, B.S. (Southern Illinois)	1955

The Alumni Office keeps address and personal information files and serves as the headquarters for the Alumni Association. The Association is the general organization of the graduates and former students of Southern Illinois University.

Any person who has attended Southern for as much as one quarter is eligible for membership in the Association. Annual dues are \$4.00 for an individual or \$5.00 for a family if both are alumni of Southern. Life membership can be obtained for \$100.00 for an individual or \$125.00 for a family. Life membership dues can be paid in ten annual installments if desired. The *Southern Alumnus*, news bulletin and magazine editions, is published by the Alumni Office. The magazine is published for the dues-paying members of the Association; the news bulletin is sent to all alumni.

In addition to the general Association, there are local alumni clubs in Illinois, throughout the country, and in Honolulu. These clubs serve as a nucleus to renew memories of and loyalties to the Alma Mater, to keep abreast with the progress and development of the University, and to join with the Alumni Association and its programs in a continuous effort to promote the advancement, usefulness, and prestige of Southern.

For information, address the Director of the Alumni Office, Southern Illinois University.

INFORMATION SERVICE

Director William H. Lyons, M.A. (Colorado)	1951
Assistant Professor C. W. Horrell, Ed.D. (Indiana)	1949

Instructor John W. Allen, Emeritus (1956)	1942
Instructor Edmund C. Hasse, M.A. (Southern Illinois)	1953
Assistant Supervisor Carl Norman England, M.S. (Southern Illinois)	1956

The Information Service is the official news agency of the University. It was established to serve both the students and the University through the dissemination of news and items of general interest to newspapers, magazines, and radio stations. The primary purpose of the Service is to keep the people of Illinois informed of the activities of the University and to make known the achievements of the students and staff.

PHOTOGRAPHIC SERVICE

The Photographic Service, an adjunct of Information Service, is equipped and staffed to serve virtually every photographic need on the campus. Its services are available to all University departments and to student activities such as the *Obelisk* and *Egyptian*. These activities cover news and publicity photography; teaching aids such as slides, photocopying, film strips, photomicrography, photostats, ozalid, and motion pictures; exhibits and murals; and identification photos, portraits, and color photography for special uses. Some of the facilities of the laboratories are available to University courses in photography.

PLACEMENT SERVICE

Director Roye R. Bryant, Ed.D. (Washington University)	1948
Professor Willis G. Cisne, A.M. (Chicago), Emeritus (1945)	1916
Assistant Director Robert B. Vokac, M.B.A. (Michigan)	1957
Assistant Professor Alice P. Rector, Ed.D. (Washington University)	1946
Assistant Supervisor Jane R. Tierney, A.B. (Illinois)	1950-52; 1954

The Placement Service is maintained for the benefit of students, graduates, and others who have attended the University, and who desire to find employment in the teaching field, in the professions, or in business. It also serves employers by helping them locate personnel.

The facilities of the Placement Service are free to candidates seeking positions, as well as to employers. Each degree candidate is requested to register with the Placement Service during the fall quarter. This co-operation will aid the record-keeping function as well as the placement function of the office. Credentials are sent to prospective employers at the request of either the candidate or the employer.

The Placement Service is a member of the National Institutional Teacher Placement Association, the Illinois Institutional Teacher Placement Association, the Midwest College Placement Association, and the Association of School and College Placement.

Inquiries should be addressed to the Director of the Placement Service.

Air Force Reserve Officers Training Corps

Colonel Alexander R. MacMillan, B.S. (USMA), Professor	1955
Lieutenant Colonel Emmett E. Cockrum, M.A. (Illinois), Assistant Professor	1956
Major Russell A. French, B.A. (Sacramento State College), Assistant Professor	1957
Major Raymond D. Wiley, Assistant Professor	1957
Major Joseph N. Goodman, Assistant Professor	1958
Captain George M. Carter, B.S. (Tulsa), Assistant Professor	1956
Captain Patricia M. Doyle, B.A. (San Jose State College) Assistant Professor	1957
Captain Frank O. Keller, Assistant Professor	1956
Captain Warren C. Moore, Assistant Professor	1957
Captain Richard C. Reeder, B.A. (Southeastern Oklahoma), Assistant Professor	1956
Captain Donald R. Remaklus, B.A. (Southeastern Oklahoma), Assistant Professor	1958
Lieutenant James L. Barr, B.S. (Indiana), Assistant Professor	1955-58
Lieutenant Joseph R. James, B.S. (USMA), Assistant Professor	1958
Lieutenant Gary W. Robbins, B.S. (USMA), Assistant Professor	1958
Lieutenant Richard N. Schwartz, B.S. (Illinois), Assistant Professor	1957
Lieutenant Curtis R. Smith, B.S. (Ball State Teachers College), Assistant Professor	1957
Lieutenant Marion E. Thornsberry, M.A. (University of Philippines), Assistant Professor	1955-58
Master Sergeant Glenn W. Baker, Instructor	1958
Master Sergeant Leslie G. Frey, Instructor	1956
Master Sergeant Porter A. Shannon, Instructor	1955-58
Master Sergeant Marvin R. Sims, Instructor	1956
Technical Sergeant Richard L. Crawford, Instructor	1955-58
Technical Sergeant Irving F. C. Gast, Instructor	1954-58
Technical Sergeant William E. Grissom, Instructor	1958

Technical Sergeant Archie A. Howell, Instructor	1955
Technical Sergeant George E. Watkins, Jr., Instructor	1955-58
Staff Sergeant John Q. Brown, Instructor	1957
Staff Sergeant Robert L. Kulyn, Instructor	1958
Staff Sergeant William F. Stelling, Instructor	1955

The Air Force ROTC Detachment at Southern Illinois University is a (senior division) ROTC unit administered by commissioned officers of the USAF, detailed to it by the Department of the Air Force with the approval of the University. These officers are appointed as members of the University instructional staff. The ranking officer, USAF, designated as Professor of Air Science, is the Detachment Commander. Airmen are assigned to assist in practical instruction and administration and to supervise the care of federal property. The University Corps of Cadets consists of all students pursuing AF ROTC training. All AF ROTC cadets retain their civilian status until they are commissioned as United States Air Force Reserve Officers and are ordered to active military service.

The course of study is divided into the Basic Course, covering the first two years, and the Advanced Course, covering the junior year, summer training unit, and the senior year in that order. It is designed to provide the fundamental training, both personal and professional, which will best equip a cadet to become a well-rounded junior Air Force officer possessing a high growth potential and also to develop and stimulate a growing desire on his part to enter the Air Force flight training program. The Basic Course is designed with two additional objectives in mind: first, to interest the cadet in the possibility of continuing in the Advanced AF ROTC and ultimately making the Air Force his career; and second, to provide him with "Air Age" citizenship training of long-range value to the Air Force whether he returns to civil life or becomes a member of the USAF. Emphasis is given throughout the courses, both in theory and practice, to outlining the leadership and managerial duties and responsibilities of squadron level officers, to improving oral and written expression, and to learning techniques of the problem-solving process.

Six quarter-hours of Air Science and Tactics are required for all entering male students who undertake their first college work by entering Southern Illinois University (Carbondale campus) unless they are veterans, over twenty-five years of age at the time of entrance, or excused from this requirement by the University Military Policies Committee. Male students who transfer fewer than forty-five quarter-hours of acceptable credit from a residence center of Southern Illinois University, from the Vocational-Technical Institute of Southern Illinois University, or from another college or university, including a junior college, shall be required to take six quarter-hours of Air Science and Tactics unless they are veterans, over twenty-five years of age at the time of entrance, or excused

from this requirement by the University Military Policies Committee.

The successful completion of the entire Basic Course (six academic quarters) or the equivalent in previous military service, is a prerequisite for graduation. Enrollment in the Advanced AF ROTC Course is voluntary on the part of the student if he is qualified, as well as highly selective on the part of the Air Force.

THE REQUIRED BASIC COURSE

The required Basic Course for freshmen and sophomores will consist of three hours of instruction per week for a minimum total period of seventy-two weeks.

THE VOLUNTARY ADVANCED COURSE

Qualified students may apply for the Advanced Air Force ROTC Course. This consists of six quarters of academic work, plus a six-week summer training unit. The object of the Advanced Course is to qualify students for appointment as second lieutenants in the United States Air Force Reserve.

Selection of students for enrollment will be made by the Professor of Air Science as provided in section 47c, National Defense Act, from qualified applicants as follows:

1. Conditions of Service. All Advanced Course students will be civilians who will be placed under contract with the government. The contract will contain the following provisions:
 - a. The student agrees
 - (1) Unless sooner discharged for the convenience of the government, to complete the Advanced Course and to attend the summer training unit at the time specified by proper authority.
 - (2) To accept an appointment as second lieutenant, United States Air Force Reserve, if and when tendered.
 - b. The Department of the Air Force agrees to pay the student commutation of subsistence at a daily rate as announced by that department. This rate varies from year to year. The current rate is \$.90 per day for a maximum period of 637 days.
2. Personal Qualifications.
 - a. A student must have completed the Basic Course or its equivalent in previous service.
 - (1) Students who have had previous training or service may

receive credit toward entrance into the Advanced Course within the following limits. (Individuals excused from the basic military training requirements for reasons other than those listed below are not eligible to apply for the Advanced Course.)

- (a) On the basis of previous honorable active service in the Air Force, Army, Navy, Marine Corps, or Coast Guard, a cadet may request a waiver of the Basic Course, or any portion thereof, as a requirement for entrance into the Advanced Course. To satisfy entrance requirements for the Advanced Course, veterans entering an institution at freshman or sophomore level who desire a commission through AF ROTC will be required to take in phase with nonveteran contemporaries the portion of the basic program which remains.
- (b) For previous training in a senior division ROTC program at another institution, credit will be allowed equivalent to the number of quarters of the course successfully completed.
- b. In age, the student must not have reached his twenty-fifth birthday at the time of initial enrollment in the Advanced Course.
- c. The physical standards prescribed for appointment to the United States Air Force Reserve in AFM 160-1 will apply. Due allowance will be made for physical defects that can be corrected.
- d. Mental and educational requirements:
 - (1) A satisfactory score for the Air Force Officer Qualification Test will be required.
 - (2) The fact of enrollment in Southern Illinois University and academic "good standing" will be accepted in satisfaction of educational requirements.
 - (3) At the time of acceptance, the applicant must have at least two academic years remaining to complete all prerequisites for graduation from the University; or, if he is a graduate student, he must have a like period of time remaining to complete all work for an advanced degree. In addition, an applicant's academic standing must be in phase with his AF ROTC training.
- 3. All members of the Advanced Course will receive the following emoluments:
 - a. A monetary allowance in lieu of subsistence, at a value to be announced by the Department of the Air Force, to be paid quarterly during the period of enrollment in the Advanced Course; except during the period of the summer training. The total period

will not exceed two calendar years. The allowance is in addition to benefits authorized by the GI Bill of Rights.

b. An officer-type uniform—cadets will be furnished a uniform on a commutation basis. The uniform remains in the cadet's possession during his two-year enrollment and becomes his property upon successful completion of the advanced AF ROTC program.

c. The pay of the first enlisted grade (\$75.00 per month) while at advanced summer training unit and travel pay to and from camp at the rate of \$.05 per mile.

The Advanced Course will consist of five hours of instruction per week for a minimum total period of seventy-two weeks.

The program of the Advanced Course will consist of generalized courses designed to develop those attributes of character, personality, and leadership which are essential to an officer in the USAF, supplemented by practical training in leadership, drill, and exercise of command.

Advanced Air Force ROTC training units of four weeks' duration will be conducted annually at Air Force installations to be designated by the Department of the Air Force.

Students enrolled in the Advanced Course will be required to complete the summer training program prior to receiving their commissions. They will normally attend camp immediately after completing the first-year Advanced Course.

Students enrolled in the AF ROTC courses at Southern Illinois University receive the following credits:

	Total
1 quarter-hour of credit for each academic quarter of the Basic Course	6 quarter-hours
4 quarter-hours of credit for each academic quarter of the Advanced Course	24 quarter-hours
Total quarter-hours of credit for the Basic and Advanced courses	30 quarter-hours

All credit received for the AF ROTC courses is allowable toward a bachelor's degree.

Qualified students may apply for deferment from the draft under the Universal Military Training and Service Act, as amended. Such students will agree to pursue the full four years of Air Science if they sign the AF ROTC Selective Service Agreement.

Air Force ROTC textbooks will be furnished on a loan basis to all AF ROTC students. They remain the property of the Federal Government and must be properly handled.

Uniforms are furnished to the University by the Federal Government for the use of the basic AF ROTC students. In case a uniform should be

come so worn or damaged as to be unfit for wear, the student may be held responsible to the extent determined by proper authority.

All cadets are required to wear the uniform on such days and occasions as directed by the Professor of Air Science.

AIR FORCE ROTC AWARDS

Awards are presented to outstanding cadets at the close of the school year. Details concerning such awards are published at appropriate times on the cadet bulletin board. The following awards will be presented to recipients at an Awards Review held in May of each academic year:

1. The Trustees' Cup. Awarded to the best-drilled unit or squadron of the Cadet Corps; it will have the name of the unit or squadron of the Cadet Corps, the names of the unit or squadron commander, and designation of the winning unit or squadron inscribed on it. The cup will be retained at Southern Illinois University for display in the trophy case.

2. The Colonel's Cup. Awarded to that member of the Southern Illinois University Rifle Team scoring the highest total number of points in all competitive matches during the current year. The name of the winning cadet will be inscribed on the cup. The cup will be retained at Southern Illinois University for display in the trophy case.

3. The Trustees' Award, Senior Student. Awarded to the outstanding cadet in the senior course, based on standing in the University and in AF ROTC, and aptitude for general service.

4. The Trustees' Award, Sophomore Student. Awarded on the same basis as for senior cadet, except to a sophomore.

5. The Trustees' Award, Freshman Student. Awarded on the same basis as for senior cadet, except to a freshman.

6. The Trustees' Award, Marksmanship. Awarded to the member of the Rifle Team making the highest score in marksmanship during the current year.

7. Air Force Association Medal, Outstanding Advanced Cadet. Awarded to the Advanced Course cadet making the highest military grades of the year.

8. The Reserve Officers' Association Award, Senior Student. Awarded to the outstanding senior cadet, based on University and AF ROTC grades for the current year and aptitude for general service.

9. The Reserve Officers' Association Award, Sophomore Student. Awarded on the same basis as for senior.

10. Chicago Tribune Award, Junior Student. Awarded at the end of the first and third quarters of each school year to the outstanding junior cadet, based on the highest grade in the particular military course of the current quarter and aptitude for general service.

11. Chicago Tribune Award, Sophomore Student. Awarded on the same basis as for junior cadet.

12. Convair Cadet Award, Sophomore Student. Awarded to the outstanding sophomore student applying and selected for the Advanced Cadet Corps.

13. American Legion Award. A national security award, presented to an AF ROTC cadet in recognition of continued outstanding service by contributing the greatest effort in the interest of the Corps.

14. Republic Aviation Award. Awarded to the junior student in AF ROTC showing the greatest enthusiasm and interest by the presentation of a topic on Air Power.

15. The Egyptian Council, Boy Scouts of America, Award. Awarded to the AF ROTC cadet who, while maintaining academic and military proficiency, has contributed the highest degree of leadership and service to the Boy Scout program.

AIR SCIENCE COURSES

101-1, 102-1, 103-1. AIR SCIENCE I, BASIC. Introduction to AF ROTC; introduction to aviation; fundamentals of global geography; international tensions and security organizations; military instruments of national security; and leadership laboratory. Basic military training. 2 hours lect.; 1 hour lab.

201-1, 202-1, 203-1. AIR SCIENCE II, BASIC. Introduction to Air Science II; elements of aerial warfare—introduction, targets, weapons, aircraft, bases, operations; careers in USAF; and leadership laboratory. Cadet noncommissioned officer training. 2 hours lect.; 1 hour lab. Prereq, 101, 102, 103, or equivalent with consent of PAS.

301-4, 302-4, 303-4. AIR SCIENCE III, ADVANCED. Introduction to advanced AF ROTC; the Air Force commander and his staff; problem-solving techniques; communications process and Air Force correspondence; military justice system; air navigation; weather; Air Force base functions; and leadership laboratory. 4 hours lect.; 1 hour lab. Prereq, 201, 202, 203, or equivalent with consent of PAS.

351-4, 352-4, 353-4. AIR SCIENCE IV, ADVANCED. Career guidance; principles of leadership and management (seminar); military aviation and the evolution of warfare; military aspects of world political geography; and leadership laboratory. 4 hours lect.; 1 hour lab. Prereq, 301, 302, 303, or equivalent with consent of PAS.

Department of Applied Science

Professor Ralph O. Gallington, Ed.D. (George Washington), Acting Chairman	1955
Professor J. Henry Schroeder, M.S. (Iowa)	1923
Associate Professor Herbert A. Crosby, D.Sc. (Washington University)	1958
Associate Professor Ernest Leon Dunning, M.S.M.E. (Ken- tucky)	1957
Associate Professor Clifford M. Moeller, M.S.C.E. (Kansas State College)	1956
Associate Professor George R. Glenn, M.S. (Clemson)	1958
Associate Professor Shelby Shake, M.S. (Indiana)	1944
Instructor Marvin E. Johnson, M.S. (Illinois)	1948
Instructor Mark Edwin Klopp, M.Ed. (Pennsylvania State)	1956
Instructor John Bruce Miles, M.S. (Missouri School of Mines)	1958
Instructor Benny S. Vineyard, M.S. (Illinois)	1954
Lecturer Thomas Randall DuBois, B.S. in E.E. (Pennsyl- vania)	1957-59
Assistant Instructor Harold Lee Carr, B.S. in Ed. (Southern Illinois)	1956-59

Programs in applied science are now offered by the Department of Applied Science which will become the School of Applied Science on July 1, 1959.

Applied science embraces the fields of solid and fluid mechanics, civil architecture, and electricity. It places a considerable emphasis on technical subjects and the physical sciences. It deals with power and design as used by the engineer. Many students will find it possible to use this curriculum as a pre-engineering program when transferring to engineering colleges to complete an engineering degree. Others may wish to complete the Bachelor of Science degree in Applied Science at Southern Illinois University. Each candidate for the Bachelor of Science degree must fulfill the general University requirements listed in Chapter III.

Required courses constituting a major in applied science often have prerequisites in other subject matter areas. See advisers for correct scheduling.

Required courses: Ap.S. 101, 205, 206, 260, 263, 261, 262, 300, 311, 315, 331, 301, 312, 316, 332, 361, 313, 340, 333, 320, 321, 334, 344, 342, 343, 335, 345, 322, 336, 363, 346; Ind. Ed. 227; Math. 112, 113, 251, 252, 253; Chem. 111, 112, 113; Physics 211, 212, 213; Mgt. 380; Econ. 205; Speech 303; Hist. 202; Govt. 300.

APPLIED SCIENCE COURSES

- 000-0. ORIENTATION. Lectures by departmental and University staff, visiting scientists or engineers to acquaint new students with various phases of applied science. Required of all freshman applied science students.
- 101-3. ENGINEERING DRAWING I. Freehand lettering, sketching, use of instruments, applied geometry, orthographic projection, dimensioning, pictorial drawing, auxiliary views, sections, conventional practices, and related information.
- 205-3. ENGINEERING DRAWING II. Shop processes, secondary auxiliary views, screw threads and fasteners, inking and tracing, reproduction of drawings, decimal dimensioning, working drawings, welding drawings, and related information. Prereq, 101.
- 206-4. DESCRIPTIVE GEOMETRY. Graphical solution of problems involving the understanding of space relations of points, lines, and surfaces; intersections, and developments and their application in industry. Prereq, 101; Math. 112.
- 260-3. ANALYTICAL MECHANICS (STATICS). Resultants of force systems, algebraic and graphical conditions of equilibrium of force systems; analysis of forces acting on members of trusses, forces due to friction; centroids. Prereq, registration in Math. 251 and Physics 211.
- 261-3. ANALYTICAL MECHANICS (DYNAMICS I). Displacement, velocity, and acceleration of a particle; translation rotation; plane motion. (Kinematics.) Prereq, 260.
- 262-3. ANALYTICAL MECHANICS (DYNAMICS II). Solutions using the principles of force, mass and acceleration, work and energy, and impulse and momentum. (Kinetics.) Prereq, 261.
- 263-4. SURVEYING I. Use and care of surveying instruments. Fundamental principles of surveying; traverse computations; land surveying; topographic surveying. Prereq, Math. 112 or Trigonometry.
- 264-4. SURVEYING II. Topographic surveying; field astronomy; route surveying; introduction to photogrammetry. Prereq, 263.
- 300-3. THERMODYNAMICS I. The study of fundamental energy concepts and the laws of thermodynamics, availability of energy, properties of gases, vapors, and gas-vapor mixtures, flow and nonflow processes. Prereq, Math. 253; Physics 213.
- 301-3. THERMODYNAMICS II. A continuation of Thermodynamics I. Engine cycles and applications to internal combustion engines, gas turbines, steam turbines, jet devices, air compressors, and air engines. Combustion, refrigeration and air conditioning. Heat transfer principles. Prereq, 300.

- 302-3. **HEAT TRANSFER.** Dimensional analysis and its application to the theory of heat transfer. Mathematical and graphical methods of analyzing problems in conduction, convection, and radiation. Particular attention is paid to the applications of heat transfer principles used in various industrial processes. Prereq, 301.
- 303-3. **ADVANCED HEAT POWER.** A study of the theory related to all types of heat power equipment. The design calculations for various components of heat power machines such as steam and gas turbines, air compressors, pumps, refrigeration and air-conditioning equipment. Prereq, 301 and 300.
- 304-3. **ENERGY CONVERSION.** Analysis of performance of A.C. and D.C. machines; diesel locomotives; transformers; developments in sources of energy—solar, atomic; hydraulic, hydro-mechanical systems. Prereq, 334.
- 307-4. **MACHINE DESIGN I.** Stress and strain analysis of linkages and structural members. Designing of machine parts from simple to complete. Taken in sequence. Prereq, junior standing.
- 308-4. **MACHINE DESIGN II.** A continuation of 307.
- 309-4. **MACHINE DESIGN III.** A continuation of 308.
- 310-5. **APPLIED MECHANICS.** A study of fundamental concepts of forces and force systems. Includes solutions using principles of force, mass, acceleration, work, and energy, Prereq, Physics 206 or 211.
- 311-3. **STRENGTH OF MATERIALS I.** Relationship between externally loaded bodies and resulting stresses and deformations. Members subjected to tension, compression, shear, torsion, and bending. Properties of materials. Prereq, 260; Math. 251.
- 312-3. **STRENGTH OF MATERIALS II.** Deflection of beams, combined loads, columns, statically indeterminate members, repeated loads, dynamic loads, reinforced concrete beams. Prereq, 311, 315.
- 313-5. **FLUID MECHANICS.** Fundamentals of fluid statics and fluid flow. Prereq, 263; Math. 253; Physics 213.
- 314-4. **SOIL MECHANICS.** Soil testing methods, structural properties of soils and their relation to design of structures, highways, airports, and embankments. Prereq, 311, 315.
- 315-1. **STRENGTH OF MATERIALS LABORATORY I.** Experimental analyses of the mechanical properties of engineering materials; tensile, compressive, torsional, and flexural tests of metals and wood; concrete proportioning and testing; tests of strength of connection; hardness tests of metals and plastics; preparation of engineering reports. Prereq, 311 or scheduled at the same time.
- 316-1. **STRENGTH OF MATERIALS LABORATORY II.** Flexural testing of steel, concrete, and wood; impact and fatigue studies; creep testing; introduction to electronic and photoelastic methods of stress analyses. Prereq, 312 or scheduled at the same time.
- 317-3. **CONSTRUCTION.** Study of construction methods, management, and machinery, including estimating, scheduling, and controlling procedures. Prereq, senior standing or consent of instructor.
- 320-3. **MECHANICAL LABORATORY.** Study of all types of measuring instruments. Fuels and lubricants testing. Exhaust gas analysis, operating characteristics of internal combustion engines, steam turbines, compressors, pumps, fans, and refrigeration systems. Report writing. Prereq, 301.
- 321-3. **METALLURGY.** The chemistry of metals; equilibrium diagrams; theory of heat treatment. Metallographic laboratory practice. Com-

- mercial methods of manufacturing and shaping iron, steel, and non-ferrous metals and alloys. Prereq, junior standing and consent of instructor.
- 322-3. **INTERNAL COMBUSTION ENGINES.** The design and principles of operation of internal combustion engines. The Otto, Diesel, and Brayton cycles and fundamental thermodynamic laws involved. Theories of combustion and detonation, combustion charts, fuels, and air tables. Effects of chemical equilibrium and variable specific heats. Cetane and octane numbers, carburetion, and injection. Prereq, 301.
- 331-3. **ELECTRICAL AND MAGNETIC CIRCUITS I.** Fundamental theory of direct current circuits, electrostatic and electromagnetic fields; resistance, inductance, mutual induction, and capacitance. Resistance measurements, use of A.C. and D.C. meters, potentiometers. Two lectures and one three-hour lab. Prereq, Math. 253; Physics 213.
- 332-3. **ELECTRICAL AND MAGNETIC CIRCUITS II.** Advanced direct and alternating current studies, including complex circuit analyses and wave analyses. Complex number and vector diagram solutions. Operating characteristics of D.C. motors and generators. Two lectures and one three-hour lab. Prereq, 331.
- 333-3. **D.C. AND A.C. MACHINES I.** Introduction to direct and alternating current machinery, theory and operating characteristics. Two lectures and one three-hour lab. Prereq, 332.
- 334-3. **D.C. AND A.C. MACHINES II.** Advanced studies on polyphase alternators and motors, synchronous convertors, dynamotors, transformers. Theory and operating characteristics. Two lectures and one three-hour lab. Prereq, 333; Math. 306.
- 335-3. **ELECTRONICS.** Electronic tube theory, amplifiers, phase and frequency modulation, vacuum tube and transistor circuits; computers.
- 336-3. **ELECTRICAL MEASUREMENTS.** Theory and use of D.C. and A.C. instruments; analysis of sensitivity, accuracy, precision, and error. Ammeters, voltmeters, wattmeters, energy measurements—watt-hour and demand meters, other recording meters. Prereq, 333.
- 337-3. **COMMUNICATIONS.** Theory of networks; network theorems; power transmission efficiency; coaxial cables; radio communication, radar, television. Prereq, 335 or concurrently.
- 338-3. **INSTRUMENTATION.** Control elements and techniques for devices and processes; dynamics of open and closed cycle control systems.
- 340-4. **KINEMATICS AND MECHANISMS.** The movement of bodies in space; basic mechanisms including analytical and graphic analyses. Linkages, cams, gears, and their manufacture. Vibration, critical speeds, and gyroscopic applications. Prereq, 262.
- 341-3. **MECHANICAL VIBRATIONS.** Equations of motion applied to systems with free and forced vibrations, damping, multiple degrees of freedom. Applications to engines and rotating machinery. Prereq, 340.
- 342-3. **DESIGN OF MACHINE ELEMENTS I.** Application of principles of mechanics to problems of design and development; mechanisms for specific functions, dynamic effects, and friction in mechanisms. Prereq, Math. 253.
- 343-3. **DESIGN OF MACHINE ELEMENTS II.** Advanced studies of design problems; hydraulic and pneumatic machine elements; power amplification devices; electronic control; automation. Prereq, 342.
- 344-3. **STRUCTURAL ANALYSIS.** Analysis of statically determinate structures under stationary, moving, and wind loads. Prereq, 312, 316.

- 345-3. **STRUCTURAL DESIGN.** Design of structural members and connections in wood and steel. Design and detailing of steel structures. Prereq, 344.
- 346-3. **POWER PLANTS.** Theory and practice of the modern stationary power plant. Diesel plant design. The principle vapor cycles in theory and practice. Cycle design and heat balance computations for Rankine, regenerative, reheating, and binary vapor cycles. Study of modern heat transfer theories. Selection of steam boilers, water walls, and superheaters. A short study of nuclear plants. Prereq, 301.
- 350-4. **JIG AND FIXTURE DESIGN I.** A course designed to contribute to the understanding of mass production, planning, and procedures, with special emphasis on the designing of jigs and fixtures. Prereq, 305, 307 or concurrently.
- 351-4. **JIG AND FIXTURE DESIGN II.** Special tools and dies. Consideration of set-up and design of automatic, semi-automatic, and hand-fed production devices. Prereq, 350.
- 352-4. **JIG AND FIXTURE DESIGN III.** More advanced practices in the design of special devices as they are related to production line procedure. Prereq, 351.
- 353-3. **ADVANCED DRAFTING FOR CIVIL ENGINEERS.** Map drawing, architectural drawings, structural steel drawings, reinforced concrete drawings.
- 354-3. **ADVANCED DRAFTING FOR MECHANICAL ENGINEERS.** Dimensioning for interchangeable assembly; architectural working drawings for heating, ventilating, and pipe layouts. Charts and diagrams. Use of log; log scales in mechanical engineering problems. Prereq, 205.
- 361-4. **ECONOMICS FOR APPLIED SCIENTISTS.** A study of factors and methods involved in selecting the most economical and feasible plan in industrial and engineering ventures, considering both the business and technical aspects involved. Prereq, Econ. 205 and junior standing.
- 363-0. **INSPECTION TRIP.** One- to three-day tours of nearby industrial plants and engineering projects. Prereq, senior standing.

Department of Industrial Education

Professor Ralph O. Gallington, Ed.D. (George Washington), Chairman	1955
Professor M. Keith Humble, Ph.D. (Missouri)	1955
Professor J. Henry Schroeder, M.S. (Iowa)	1923
Professor Ernest J. Simon, M.S. (Illinois), LL.D. (Bradley)	1950
Associate Professor John Howard Erickson, Ed.D. (Pennsyl- vania State)	1955
Associate Professor James Jenkins, Jr., Ed.D. (Pennsylvania State)	1955
Assistant Professor Wayne S. Ramp, Ed.D. (Bradley)	1957
Assistant Professor Shelby S. Shake, M.S. (Indiana)	1944
Instructor F. W. Culpepper, Jr., M.S. (Teachers College at Oswego)	1957
Instructor Willard C. Hart, B.S. (Illinois)	1950
Instructor W. A. Howe, M.S. (Illinois)	1949
Instructor Marvin E. Johnson, M.S. (Illinois)	1948
Instructor Benny S. Vineyard, M.S. (Illinois)	1954
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Visiting Professor Homer J. Smith, Ph.D. (Minnesota)	1957-58
Visiting Professor Robert E. Smith, Ph.D. (Ohio State)	1954-58
Lecturer James Evans Young, M.S. in Ed. (Southern Illinois)	1957-58
Assistant Instructor Harold Lee Carr, B.S. in Ed. (Southern Illinois)	1956-58

The Department of Industrial Education is not at present attached to a school or college, but is an independent unit in the University's educational organization. It is directly responsible to the Vice-President for Instruction. On July 1, 1959, it will become a department within the School of Applied Science.

The Department of Industrial Education offers work in major fields leading to degrees as follows:

1. Bachelor of Science in Education for students in the College of Education preparing to teach industrial arts.
2. Bachelor of Science in Education for students in the College of Education preparing to teach industrial trades.

3. Bachelor of Science for students interested in becoming manual arts therapists.

4. Bachelor of Science for students interested in industrial science and supervision and preparing for supervisory positions in industry. The following options are available: Industrial Design, Metal Processing, Industrial Personnel, and Industrial Production Planning.

SUGGESTED CURRICULUM IN THE COLLEGE OF EDUCATION

General degree requirements: See Chapter III of this Bulletin.

College of Education requirements: See page 103 of the 1956-58 University Bulletin.

Required courses constituting a major in industrial arts: 100, 112, 122, 130, 145, 212, 226, 233, 300, 306, 490, 496; Math. 111, 112; Physics 206, and 208 or Chem. 111. Forty-eight quarter-hours constitute an undergraduate major and thirty-six quarter-hours constitute an undergraduate minor. Consult the academic adviser for minor requirements.

Those students wishing to complete the certification requirements for trade and industrial teaching should register their choice of trade with their academic advisers. Curricular requirements vary with a student's trade experience or his vocational-technical training.

The industrial arts curriculum with modifications can be followed by those preparing to be manual arts therapists. Hospital internship is required in the manual arts therapy program.

SUGGESTED CURRICULA IN INDUSTRIAL SCIENCE AND SUPERVISION

General degree requirements: See Chapter III of this Bulletin.

Sixty-four quarter-hours constitute an undergraduate major. Without a minor in another field, the industrial science student is required to complete a ninety-six quarter-hour major and other specified courses.

The fields of mathematics, physics, chemistry, business administration, psychology, safety education, art, and agriculture are recommended minor fields.

Required courses constituting a major in industrial science with a specialization in industrial design: 112, 122, 145, 212, 222 or 226, 305; Ap. S. 101, 205, 206, 307, 308, 309, 310, 350, 351, 352; Mgt. 380; Econ. 205, 206; Math. 111, 112; Physics 206, and 208 or Chem. 111; Psych. 201; Speech 101.

Required courses constituting a major in industrial science with a specialization in metal processing: 112, 122, 145, 212, 214, 222, 318, 322, 325, 360; Ap. S. 101, 205; Mgt. 380; Econ. 205, 206; Math. 111, 112;

Physics 101 or 206, and 102 or 208 or Chem. 111; Psych. 201; Speech 101.

Required courses constituting a major in industrial science with a specialization in industrial personnel: 112, 122, 145, 212, 222 or 226, 495; Ap. S. 101, 205; Mgt. 374, 380, 385; Econ. 205, 310, 411; Math. 111, 112; Physics 206, and 208 or Chem. 111; Psych. 201, 202, 315, 316, 317; Speech 101.

Required courses constituting a major in industrial science with a specialization in industrial production: 112, 122, 145, 212, 222 or 226; Ap. S. 101, 205, 206, 307, 308, 309, 310, 350, 351, 352; Acct. 250; Mgt. 374, 380, 385, 471; Econ. 205, 206; Math. 111, 112, 113, 307; Physics 206, and 208 or Chem. 111; Psych. 201, 315; Speech 101.

In general, students majoring in industrial science will be required to complete a minimum of 40 per cent of their work in the area of general education and a minimum of 40 per cent in the area of their specialization.

INDUSTRIAL EDUCATION COURSES

Courses on the 100, 200, and 300 levels are for undergraduate students. Those on the 400 level may be taken by undergraduate and graduate students. Those on the 500 level are for graduate students only.

- 100-4. GENERAL SHOP. An orientation to the various areas of industrial education. Lecture, discussion, and laboratory to present a broad exploratory experience. General shop basis. Introduction of teaching methods and problems.
- 112-4. BASIC WOODWORK. Use of woodworking hand tools involving common joints and fasteners. Elementary carving and finishing. Use of the wood lathe, drill press, jig saw, and portable machines. Prereq. one course in mechanical drawing.
- 122-4. MACHINE SHOP I. Designed to aid in the development of fundamental skills and information needed when operating the basic machine tools.
- 130-4. INDUSTRIAL ARTS DRAWING I. Designed to acquaint prospective teachers with the purposes and problems of teaching elementary and secondary school students—emphasizing orthographic projection, pictorial representations, freehand sketches, and the reading of drawings and diagrams.
- 145-4. BASIC ELECTRICITY. Application of electrical theory to the use of simple electrical equipment, of wiring and of fire-underwriters' regulations. Structure, care, repair, and adjustment of home electrical devices; house wiring.
- 204-4. ARCHITECTURAL DRAWING I. Introduction to design of small structures with special emphasis on house planning; including the selection of building sites, types of architecture and construction, room planning and arrangement, elevations, building materials, decorating, landscaping, and contractual aspects. Prereq. 130 or Ap. S. 101.
- 212-4. MACHINE WOODWORK. Operation, care, and use of woodwork-

- ing machines for making useful projects involving the more advanced types of joints and construction; finishing; and safety. Prereq, 112 or equivalent.
- 214-4. **WOOD PATTERN MAKING AND FOUNDRY.** The making of wood patterns of machine parts; molding (involving cutting and tempering) sand; melting, handling and pouring of the molten metals. Prereq, 112 or equivalent.
- 216-4. **FURNITURE UPHOLSTERING AND FINISHING.** Care and use of the tools, materials, and fundamental processes of upholstering and finishing furniture.
- 222-4. **MACHINE SHOP II.** Operation, care, and use of machine tools with emphasis on engine lathe, shaper, planer, and milling machine. Prereq, 122 or equivalent.
- 226-4. **GENERAL METAL I.** Fabricating, molding, shaping and heat treating common metals. Study of tools, processes, and related technical information as related to bench metal, sheet metal, foundry, heat treating, and oxyacetylene welding.
- 227-4. **MANUFACTURING PROCESSES.** Required of applied science students. Machine tool processes; welding, forming, patternmaking, and foundry techniques of modern industry. The use of jigs and fixtures, and mass production techniques are emphasized.
- 233-4. **INDUSTRIAL ARTS DRAWING II.** A continuation of 130—emphasizing problem solving, revolutions, developments, intersections, auxiliaries, screw threads, fasteners, working drawings, inking, tracing, reproduction of drawings, and practice in the use of the chalk board as a teaching aid. Prereq, 130 or equivalent.
- 234-4. **GRAPHIC ARTS I.** Experience in designing and printing with linoleum block and silk-screen stencils, practice in typesetting, composition, bookbinding, and operation of hand platen presses. Required of manual arts therapy majors.
- 259-3 to 60. **SHOP AND MECHANICAL DRAFTING SUBJECTS.** This is a shop and mechanical drafting credits designation used when shop or drafting course credit is established in some other accredited institution above the high school level. It may be transferred toward degree requirements in industrial education. This credit is especially appropriate to option II of the Vocational Industrial Education Curriculum. Before final acceptance of the transfer credits, the department chairman will evaluate them.
- 300 (120)-4. **LEATHERWORK AND PLASTICS.** Experience in planning, designing, and enriching surfaces, using leather and plastics as media. Prereq, senior standing.
- 302-4. **CONSTRUCTION METHODS FOR PRIMARY TEACHERS.** Various media such as wood, metal, and paper. Acquainting the primary teacher with the materials, tools, and processes students at the primary level can manipulate and use in the classroom.
- 303-4. **DIVERSIFIED CRAFTS FOR TEACHERS AND RECREATIONAL LEADERS.** Experience in constructional activities involving the use of wood, metal, leathers, plastics, reed, raffia, clay, and other materials adaptable to the needs and interests of elementary school teachers and camp counselors.
- 304-4. **ARCHITECTURAL DRAWING II.** A continuation of 204—emphasizing instrument drawings of an original design of a residence, set of prints, and complete specifications. Prereq, 204.

- 305-4. MACHINE DRAWING. Piping layouts, gears, cams, keys, rivets, springs, precision and limit dimensioning, assembly drawings, parts lists, and details with emphasis on established industrial practices. Prereq, 233 or Ap. S. 205.
- 306-4. INDUSTRIAL ARTS DESIGN. Elements of design: contour, surface enrichment, line, and mass. Applied to shop projects. Prereq, 233.
- 313-4. FURNITURE CONSTRUCTION AND CABINETMAKING. Design and construction of special pieces of furniture and elementary cabinet-work. Prereq, 212.
- 318-4. GENERAL WELDING I. A course covering basic working knowledge of electric arc welding, oxyacetylene welding, and flame cutting. Emphasis placed on shop safety, care and use of welding equipment, and preparation of related instructional materials. Prereq, 226 or consent of instructor.
- 319-3 to 21. INDUSTRIAL INTERNSHIP. The course is co-operative with selected industries and the Department of Industrial Education. It is required of persons lacking trade experience who plan to teach vocational education under the Illinois State Plan for Vocational Education. Industrial experience includes job skills, manufacturing processes, technical information, and labor-management relationships with supervised instruction, conferences, and examinations. Prereq, approval by department chairman.
- 321-2. CANE, REED, AND RAFFIA WORK. Provides experiences in basketry and hand weaving. Required of manual arts therapy majors. Prereq, junior standing.
- 322-4. MACHINE SHOP III. Machine shop practices involving the construction of machines and tools for practical use. Advanced industrial production practices and related technical information. Prereq, 222 or equivalent.
- 324-4. METAL CRAFTS. Provides experiences with nonferrous metals involving heating, annealing, enameling, designing, chasing, etching, forming, piercing, raising, and tooling. Required for students preparing for specific jobs in industry. Prereq, 322 or equivalent.
- 325-4 to 12. ADVANCED MACHINE SHOP. Designed for students preparing for specific jobs in industry. Prereq, 322.
- 328-4. GENERAL WELDING II. Specialized training in oxyacetylene and electric welding. Related information including a study of welding safety, torches, manifolds, tanks, filler rods. Students to pass tests of welding proficiency. Prereq, 318 or equivalent.
- 329-4. GENERAL METAL II. Designed to provide experience in pattern-making, founding, forging, heat treating, raising, etching, and spinning metals. Study of tools, machines, and information relating to these processes. Prereq, 226 or equivalent.
- 332-4. FUNDAMENTALS OF TRANSPORTATION. Driver training involving responsibilities for detecting unsafe operating conditions. Required accessories and uses. Care, functions, and condition of major operating parts. Knowledge and use of tools and equipment necessary for making emergency adjustments for safe driving.
- 334-4. GRAPHIC ARTS II. Continuation of Graphic Arts I, featuring more advanced problems and experience in setting up and operating presses and other printing devices.
- 341-4. MACHINE AND TOOL MAINTENANCE. Sources, manufacture, supply, cost, sharpening, adjusting, and repairing saws, drills, drill-

- presses, jointers, lathes, sanders, and other machines, as well as hand tools used in the various industrial education shops.
- 342-4. **PAINTING AND FINISHING.** Practices and procedures in painting, staining, varnishing, enameling, lacquering, using transfers; practice in the use of the spray gun. Study of the chemical elements of various finishes; proper care of finishing equipment and materials.
- 344(245)-4. **COMMUNICATIONS EQUIPMENT.** A study of the three basic divisions of the communications industry—telephone, telegraph, and radio. Construction testing, maintenance, and related technical information of basic electrical circuits and devices in each division. Prereq, 145 or Physics 207.
- 345-4. **INDUSTRIAL ELECTRONICS.** A study of basic electronic circuits and devices commonly used in various industries. Analysis, construction, testing, and maintenance of such circuits as induction heating, photo-electric, time delay, rectifier, and electroplating, emphasizing electronic testing equipment studies and correct use of such equipment. Prereq, 344 or equivalent.
- 346-4. **ELECTRONIC SYSTEMS.** Advanced industrial electric and electronic circuits and the combination of control methods into an integrated electronic system featuring telemetering, servo systems, production control, and analog and digital computers. Related technical information stressed. Prereq, 345.
- 360-4 to 12. **SPECIALIZED ADVANCED MACHINE SHOPS.** Designed to continue student specialization in metal fabrication. Production process or operation sheet writing. Prereq, 325.
- 365-4. **INDUSTRIAL SAFETY.** Study of the frequency and occurrences of accidents in industrial pursuits, their causes, means of reduction and prevention through education, supervision, and the use of functional safety devices.
- 400-4. **PRODUCTION ILLUSTRATION.** Axonometric projection, perspective, line and surface shading, exploded views, pictorial details, and assemblies with special emphasis on illustration for assistance to assembly personnel and for catalog and advertising purposes. Prereq, 233 or Ap. S. 205.
- 430-2 to 6. **SPECIAL PROBLEMS IN THE ARTS AND INDUSTRIES.** An opportunity for students to obtain special instruction in the solution of problems in specific subject matter fields.
- 435-6 to 12. **MANUAL ARTS INTERNSHIP.** Supervised hospital experience featuring various applications of manual arts therapeutical treatments. A maximum of twelve hours allowed for course with a maximum of six hours for any one enrollment period.
- 480-4. **PROBLEMS OF ELEMENTARY INDUSTRIAL EDUCATION.** Problems involved in teaching and supervising industrial education at the elementary school level.
- 490-4. **PRINCIPLES OF INDUSTRIAL TEACHING.** Activities of industrial education and motivation of learning in industrial subjects. Emphasis on planning and methods of presentation..
- 491-3 to 4. **PRINCIPLES OF TRADE TEACHING.** Emphasis on methods of teaching. Required in the Vocational Industrial Teacher Education Curricula.
- 492-4. **SCHOOL SHOP PLANNING.** Principles and practices underlying modern school shop planning. Actual school shop plans required.
- 494-3 to 4. **ORGANIZATION AND ADMINISTRATION OF INDUS-**

TRIAL EDUCATION. Principles and policies governing the administration of industrial education programs in elementary, junior, senior high schools; relation of federal and state supervision of industrial education to local administration.

- 495-3 to 4. OCCUPATIONAL ANALYSIS. Involves the fundamental steps for analyzing trades and other occupations, with some thought toward establishing appropriate units of instruction for the apprentice or student. Jobs, operations and essential related information are analyzed.
- 496-3 to 4. SELECTION AND ORGANIZATION OF SUBJECT MATTER. Selection and arrangement of teaching content; preparation of assignment, operation, information, and job sheets; preparation of tests.
- 497-4. THE LITERATURE OF INDUSTRIAL EDUCATION. An introduction to the literature in the field of industrial arts and vocational industrial education. This course is of importance to persons who expect to make industrial teacher education a career.
- 498-4. ORGANIZING AND ADMINISTERING THE GENERAL SHOP. Study and practice in the development of a general shop featuring multiple offerings. Development and organization of appropriate instructional materials and teaching aids.

(Courses on the 500 level may be taken only by graduate students.)

- 500-2 to 4. SPECIAL INVESTIGATIONS IN INDUSTRIAL EDUCATION. For students who wish to make a thorough study or investigation of a specific problem in industrial education.
- 502-4. MEASUREMENT AND EVALUATION OF PRODUCTS AND PROCEDURES. Criteria and instrument development, testing techniques, and appraisals. Special emphasis is given to the principles and methods of evaluation of progress in laboratory and shop subjects of a practical arts nature. Experience in development and construction of pertinent and effective evaluative devices.
- 504-4. HISTORY AND PHILOSOPHY OF INDUSTRIAL EDUCATION. Leaders, organizations, and movements in development and progress of industrial education.
- 505-4. SUPERVISION OF INDUSTRIAL EDUCATION. Study of basic philosophy, purposes, and procedures of specified state and national plans. Qualifications of the supervisor, of adopted plans, his duties and responsibilities at the various school levels with respect to development and improvement of instruction in shop and drawing subjects. Study of procedures used in upgrading teachers and facilities; development and use of professional incentives.
- 506-4. PROBLEMS OF THE CO-ORDINATOR. Problems and procedures involved in setting up and operating co-operative part-time and evening school programs.
- 508-4. TEACHING AIDS IN INDUSTRIAL EDUCATION. Selection, development, and use of industrial illustrations and instructional aids and devices.
- 541-4. OCCUPATIONAL INFORMATION AND GUIDANCE. Designed for school counselors, industrial supervisors, and teachers to give them orientation to and experience with occupational information and vocational adjustment. Prereq, consent of instructor.
- 580-3 to 9. SEMINAR IN INDUSTRIAL EDUCATION.
- 590-3 to 6. RESEARCH IN INDUSTRIAL EDUCATION.
- 599-1 to 9. THESIS.

Department of Nursing

Professor Virginia Hall Harrison, M.S.N.E. (St. Louis), Chairman	1955
Associate Professor Stephanie B. Conwell, M.A. (Columbia)	1957
Assistant Professor Twila Jean Hoffman, M.A. (George Pea- body)	1956-57
Assistant Professor Mary Wyatt, M.A. (Washington Uni- versity)	1957
Assistant Instructor Patsy Coleman	1958-59
Assistant Instructor Mary K. Goss, A.B. (Southern)	1959
Lecturer Hazel L. LeFevre, B.S.N.E. (Columbia)	1956-57

The Department of Nursing is presently not attached to any school or college, but is an independent unit in the University's educational structure, directly responsible to the Vice-President for Instruction.

The purpose of the Department of Nursing is to prepare professional nurses to meet community needs. It provides programs in general and professional education, and aims to enable the practitioner to give skilled nursing service in any of the many branches of nursing, while assisting him to develop in accordance with his own capabilities and interest.

In addition to learning to give comprehensive nursing care, the student in nursing is guided in developing citizenship concepts, skills in communication, understanding of man and his environment, cultural appreciation, and the ability to solve problems.

The Department of Nursing offers two programs, both leading to the Bachelor of Science degree. The basic professional curriculum is a fourteen-quarter program for young men and women who are high school graduates with no previous education for nursing. Through course content, field trips, and guided nursing experiences in hospitals, nursery school, public health agency, clinics, and homes of patients, the student learns to evaluate and meet the patient's needs, with other members of the health team. He or she learns, also, to give appropriate nursing care and to teach patients and their families to meet their personal health needs.

The supplemental program for registered nurses, through a combination of general and nursing education, aims to prepare graduates for professional nursing in hospitals, health agencies, and the community. The major in nursing is strengthened by additional upper-division courses in related areas. Field work in public health and hospitals is required.

BASIC PROFESSIONAL CURRICULUM

Students interested in this program should prepare in high school by taking at least three units of English, two of mathematics, one or more each of chemistry, biology, and social studies. Foreign language is not required, but a knowledge of Latin or Greek is helpful.

Transfer credit from another accredited college or university may be accepted if it is of recent origin and satisfactory ("C") quality. Students who have completed part of a diploma program may be admitted to this curriculum, but courses may need to be repeated and no credit is given for time spent in a hospital school.

The first five quarters of the program are spent in general education and pre-professional courses, to prepare the student for care of patients. During the fifth quarter, two weeks in a nursery school and six weeks in the outpatient department of a general hospital in Carbondale are provided to introduce the student to the care of ambulatory, mildly ill patients.

Upon satisfactory completion of all academic and pre-professional requirements the student is recommended for transfer to the University of Illinois School of Nursing. Clinical instruction and experience are offered in medical, surgical, obstetric, pediatric, orthopedic, operating room, and tuberculosis nursing, through a co-operative arrangement between these two state universities. Five quarters are spent in Chicago at the Research and Educational Hospitals. In June of the third year the student returns to Southern Illinois University. Psychiatric nursing, field work in public health, comprehensive nursing, and senior medical nursing are completed during the year in residence.

Graduates of this program are eligible for admission to the examinations given by the Department of Registration and Education, and licensure as registered nurses (R.N.).

General degree requirements: See Chapter III.

Department of Nursing requirements: Chemistry 110, 240; Sociology 101; Psychology 201; Food and Nutrition 103; Speech 101; Physiology 209, 300; Nursing 101, 102, 219, 220, 225, 251, 325, 326, 354, 360, 361, 375, 380, plus satisfactory completion of clinical instruction and experience at both the University of Illinois and Southern Illinois University.

SUPPLEMENTAL PROGRAM FOR REGISTERED NURSES

The Department of Nursing offers a curriculum in general and professional courses to registered nurses who desire to prepare for care of patients in beginning positions in any of the major fields of nursing. The program is designed to assist the nurse to develop competencies essential for the new roles of professional practitioners today, and to provide a foundation for specialization on the graduate level.

Applicants for admission to the supplemental curriculum should be in good physical condition, have graduated from a state-accredited school of nursing, and be licensed to practice in some state or territory of the United States or some foreign country. They are required to write the Graduate Nurse Qualifying Examination either before admission or during the first quarter they are enrolled as full-time students at the University. Arrangements to take this examination are made with the National League for Nursing, 2 Park Avenue, New York City. Application cards, signed by the chairman, may be obtained in the departmental office, 101 Main Building, Southern Illinois University, Carbondale.

Evidence of license to practice must be submitted, as well as transcripts of school of nursing, high school, and any college or university previously attended.

The amount of credit allowed for the diploma program is determined on an individual basis. Among the factors to be considered are accreditation of the school of nursing and the record made there; results of the Graduate Nurse Qualifying Examination; the level of achievement during the first full quarter at the University; the quality of work done elsewhere; and the length of time since graduation. The maximum amount of credit which may be granted for the diploma program is sixty-four quarter-hours.

The program can be completed in two and one-quarter years if the student attends full-time, and if maximum credit is granted.

Part-time work may be obtained in the general or special hospitals in Carbondale or surrounding towns, or in the University Health Service. The amount of part-time work undertaken may be restricted, or the student may be asked to take a limited program in the University, unless grades are kept at a satisfactory level.

Fees are the same for students in this program as for those in any other University program. Public health uniforms, or navy blue skirt and white blouses, for the field experience in public health, and white uniforms, hose, shoes, and cap for the hospital experience, must be provided by the student.

General degree requirements: See Chapter III.

Department of Nursing degree requirements: 305, 309, 310, 311, 312, 375, 380, 385, 386; Health Education 355; a four-hour course in Psychology, from among the following: 301, 303, 305, 401, 410, 412, 415, 416; a four-hour course in Sociology, from among the following: 301, 310, 311, 315, 316, 337, 369; four to five hours in Physiology or Microbiology (Physiology 300, 315, 316, 317, or Microbiology 301).

NURSING COURSES

- 101-0. INTRODUCTION TO NURSING I. An orientation to the philosophy and functions of nursing in contemporary society. Lectures, discussion, and field trips.
- 102-2. INTRODUCTION TO NURSING II. Lectures, discussion, and field trips dealing with the ways in which the health team and the community safeguard the safety and health of its citizens.
- 205-4. SURVEY COURSE FOR MEN. Prevention, cure, and rehabilitation in selected diseases. Physical and emotional aspects of pregnancy and childbirth. For nonmajors only. Prereq, H. Educ. 100 or consent of the instructor.
- 219-4. GROWTH AND DEVELOPMENT OF THE INDIVIDUAL I. Physical, social, emotional, intellectual, and spiritual development of the normal individual from birth to puberty. Prereq, Food and Nut. 103; Psych. 201; and Physio. 209 (preceding or concurrent).
- 220-2. GROWTH AND DEVELOPMENT OF THE INDIVIDUAL II. Physical and emotional development of the individual from puberty through senescence. Includes a study of pregnancy, with emphasis on the general influences of economic, social, and spiritual aspects. Prereq, 219.
- 225-5. FOUNDATIONS. An introduction to the care of normal children and mildly ill and ambulant adults. Lecture, demonstration, and laboratory practice. For majors only.
- 251-2. MATERIA MEDICA. Drug dosage and preparation of solutions for internal and external use. Lecture and laboratory practice.
- 305-4. HISTORY AND PHILOSOPHY OF NURSING. Historical approach to understanding of the broad movements and trends in nursing and philosophical concepts underlying current developments. Open only to registered nurses.
- 306-3. CURRENT DEVELOPMENTS IN NURSING. An intensive study of major issues in nursing. Prereq, 305.
- 309-4. INTRODUCTION TO ADMINISTRATION IN NURSING SERVICES. Principles of administration applied to hospitals and other nursing services. Open to registered nurses only.
- 310-4. NORMAL GROWTH AND DEVELOPMENT. This course aims to increase the graduate nurse's understanding of physical, emotional, mental, and social changes normally occurring from birth to old age. Prereq, General Psychology.
- 311-4. INTERPERSONAL RELATIONSHIPS IN NURSING. A course designed to help the students adapt to changing situations, and to accept and understand themselves and others. Prereq, graduate nurse status and General Psychology.
- 312-4. TEACHING IN NURSING. Techniques of teaching applied to pa-

tients and families, as well as groups. Prereq, graduate nurse status and General Psychology.

340-2 to 4. **SELECTED PROBLEMS IN NURSING.** Application of the problem-solving method to selected situations commonly found in professional nursing practice.

375-4. **PRINCIPLES OF PUBLIC HEALTH NURSING.** Objectives, principles, and practices in public health nursing, application of nursing science and art to family and community living. Prereq, senior standing; 310, 311, 312; H. Educ. 355 (preceding or concurrent).

380-8. **PUBLIC HEALTH NURSING PRACTICUM.** One quarter's supervised experience in a public health agency conducting a generalized program; includes orientation, demonstrations, and conferences. Prereq, 375 (preceding or concurrent); H. Educ. 355.

385-2. **GENERAL NURSING.** Seminar in comprehensive care in the community and the hospital, in the areas ranging from prevention to rehabilitation. Principles of public health nursing are applied throughout the course. Prereq, 375, 380.

386-2 to 6. **GENERAL NURSING PRACTICUM.** Designed to assist the graduate nurse to improve her knowledge, understanding, and practice in comprehensive nursing care. Prereq, senior standing and 385.

Statistics

UNIVERSITY ENROLLMENT, 1955-1956

	MEN	WOMEN	TOTAL
Summer Session, 1955	1,487	1,107	2,594
Fall, 1955	3,691	1,724	5,415
Winter, 1955-56	3,523	1,599	5,122
Spring, 1956	3,372	1,542	4,914
Individuals on Campus, 1955-56	4,809	2,570	7,379
Individuals, Belleville Residence Center, 1955-56	54	119	173
Individuals, Extension, 1955-56	369	1,030	1,399
Total Individuals on Campus, Belleville Residence Center, and Extension, 1955-56	5,122	3,544	8,666
Individuals, Noncollegiate Grade, in University School, 1955-56	388	366	754
Total Individuals (Duplicates Excluded), 1955-56	5,510	3,910	9,420
Total Registrants in Division of Technical and Adult Education Courses, 1955-56, (Noncredit)			3,507

UNIVERSITY ENROLLMENT, 1956-1957

	MEN	WOMEN	TOTAL
Summer Session, 1956	1,645	1,241	2,886
Fall, 1956	4,196	1,908	6,104
Winter, 1956-57	4,026	1,754	5,780
Spring, 1957	3,772	1,733	5,505
Individuals on Campus, 1956-57	5,433	2,811	8,244
Individuals, Belleville Residence Center, 1956-57	100	134	234
Individuals, Extension, 1956-57	542	914	1,456
Total Individuals on Campus, Belleville Residence Center, and Extension, 1956-57 ...	5,853	3,641	9,494
Individuals, Noncollegiate Grade, in University School, 1956-57	483	410	893
Total Individuals (Duplicates Excluded), 1956-57	6,336	4,051	10,387
Total Registrants in Division of Technical and Adult Education Courses, 1956-57, (Noncredit)			5,552

UNIVERSITY ENROLLMENT, 1957-1958

	MEN	WOMEN	TOTAL
Summer Session, 1957	1,664	1,429	3,093
Fall, 1957	4,372	2,125	6,497
Winter, 1957-58	4,341	1,986	6,327
Spring, 1958	4,200	1,921	6,121
Individuals on Campus, 1957-58	5,692	3,111	8,803
Individuals, Alton Residence Center, 1957-58 ..	1,210	577	1,787
Individuals, Belleville Residence Center (Included with East St. Louis Figures)			
Individuals, East St. Louis Residence Center, 1957-58	531	402	933
Individuals, Extension, 1957-58	445	870	1,315
Total Individuals on Campus, Residence Centers, and Extension, 1957-58	7,655	4,735	12,390
Individuals, Noncollegiate Grade, in University School, 1957-58	476	394	870
Total Individuals (Duplicates Excluded), 1957-58	8,131	5,129	13,260
Total Registrants in Division of Technical and Adult Education Courses, 1957-58, (Noncredit)			7,331

*SUMMARY OF DEGREES AND CERTIFICATES,
JUNE 16, 1956*

	MEN	WOMEN	TOTAL
GRADUATE SCHOOL			
Certificate of Specialist	1	0	1
GRADUATE SCHOOL			
Master of Arts Degree	7	3	10
Master of Science Degree	7	0	7
Master of Science in Education Degree	49	21	70
Total Master's Degrees	63	24	87
COLLEGE OF EDUCATION			
Bachelor of Music Education Degree	2	2	4
Bachelor of Science in Education Degree	98	104	202
	100	106	206
COLLEGE OF LIBERAL ARTS AND SCIENCES			
Bachelor of Arts Degree	77	12	89
SCHOOL OF AGRICULTURE			
Bachelor of Science in Agriculture Degree	13	0	13
SCHOOL OF BUSINESS AND INDUSTRY			
Bachelor of Science Degree	73	3	76
SCHOOL OF COMMUNICATIONS			
Bachelor of Science Degree	11	2	13
SCHOOL OF FINE ARTS			
Bachelor of Arts Degree	5	2	7
DEPARTMENT OF HOME ECONOMICS			
Bachelor of Science Degree	0	3	3
Total Bachelor's Degrees	279	128	407
DIVISION OF TECHNICAL AND ADULT EDUCATION			
Associate in Business Degree	23	11	34
Associate in Technology Degree	85	0	85
Total Associate Degrees	108	11	119
DIVISION OF TECHNICAL AND ADULT EDUCATION			
Certificate in Calculating Machines	1	4	5
Certificate in Clerical Procedures	0	2	2
Certificate in Cosmetology	0	15	15
Certificate in Stenographic	0	5	5
Certificate in Welding	15	0	15
Total Certificates	16	26	42

SUMMARY OF DEGREES, AUGUST 10, 1956

	MEN	WOMEN	TOTAL
GRADUATE SCHOOL			
Certificate of Specialist	1	0	1
GRADUATE SCHOOL			
Master of Arts Degree	16	3	19
Master of Fine Arts Degree	1	1	2
Master of Science Degree	12	2	14
Master of Science in Education Degree	46	34	80
	<hr/>	<hr/>	<hr/>
Total Master's Degrees	75	40	115
COLLEGE OF EDUCATION			
Bachelor of Music Education Degree	2	1	3
Bachelor of Science in Education Degree	55	62	117
	<hr/>	<hr/>	<hr/>
	57	63	120
COLLEGE OF LIBERAL ARTS AND SCIENCES			
Bachelor of Arts Degree	32	2	34
SCHOOL OF BUSINESS AND INDUSTRY			
Bachelor of Science Degree	20	0	20
SCHOOL OF FINE ARTS			
Bachelor of Arts Degree	3	0	3
Bachelor of Music Degree	0	1	1
	<hr/>	<hr/>	<hr/>
	3	1	4
DEPARTMENT OF HOME ECONOMICS			
Bachelor of Science Degree	0	1	1
	<hr/>	<hr/>	<hr/>
Total Bachelor's Degrees	112	67	179
DIVISION OF TECHNICAL AND ADULT EDUCATION			
Associate in Technology Degree	24	0	24

*SUMMARY OF DEGREES AND CERTIFICATES,
JUNE 16, 1957*

	MEN	WOMEN	TOTAL
GRADUATE SCHOOL			
Certificate of Specialist	1	0	1
GRADUATE SCHOOL			
Master of Arts Degree	8	0	8
Master of Fine Arts Degree	0	1	1
Master of Music Degree	0	1	1
Master of Music Education Degree	1	0	1
Master of Science Degree	8	1	9
Master of Science in Education Degree	38	14	52
Total Master's Degrees	55	17	72
COLLEGE OF EDUCATION			
Bachelor of Music Education Degree	10	4	14
Bachelor of Science in Education Degree	92	147	239
	102	151	253
COLLEGE OF LIBERAL ARTS AND SCIENCES			
Bachelor of Arts Degree	82	15	97
SCHOOL OF AGRICULTURE			
Bachelor of Science in Agriculture Degree	17	0	17
SCHOOL OF BUSINESS			
Bachelor of Science Degree	74	3	77
SCHOOL OF COMMUNICATIONS			
Bachelor of Science Degree	12	2	14
SCHOOL OF FINE ARTS			
Bachelor of Arts Degree	8	3	11
SMALL BUSINESS INSTITUTE			
Bachelor of Science Degree	1	0	1
DEPARTMENT OF HOME ECONOMICS			
Bachelor of Science Degree	0	5	5
DEPARTMENT OF INDUSTRIAL EDUCATION AND APPLIED SCIENCE			
Bachelor of Science Degree	15	0	15
Total Bachelor's Degrees	311	179	490
DIVISION OF TECHNICAL AND ADULT EDUCATION			
Associate in Business Degree	29	13	42
Associate in Technology Degree	81	0	81
Total Associate Degrees	110	13	123

*SUMMARY OF DEGREES AND CERTIFICATES,
JUNE 16, 1957 (Continued)*

	MEN	WOMEN	TOTAL
DIVISION OF TECHNICAL AND ADULT EDUCATION			
Certificate in Bookkeeping-Clerical	2	3	5
Certificate in Calculating Machines	0	1	1
Certificate in Cosmetology	0	15	15
Certificate in Stenographic	0	1	1
Certificate in Welding	4	0	4
	<hr/>	<hr/>	<hr/>
Total Certificates	6	20	26

*SUMMARY OF DEGREES AND CERTIFICATES,
AUGUST 9, 1957*

	MEN	WOMEN	TOTAL
GRADUATE SCHOOL			
Master of Arts Degree	22	3	25
Master of Science Degree	6	7	13
Master of Science in Education Degree	53	28	81
	<hr/>	<hr/>	<hr/>
Total Master's Degrees	81	38	119
COLLEGE OF EDUCATION			
Bachelor of Music Education Degree	1	3	4
Bachelor of Science in Education Degree	54	97	151
	<hr/>	<hr/>	<hr/>
	55	100	155
COLLEGE OF LIBERAL ARTS AND SCIENCES			
Bachelor of Arts Degree	31	6	37
SCHOOL OF AGRICULTURE			
Bachelor of Science in Agriculture Degree	4	0	4
SCHOOL OF BUSINESS			
Bachelor of Science Degree	23	0	23
SCHOOL OF COMMUNICATIONS			
Bachelor of Science Degree	3	0	3
SCHOOL OF FINE ARTS			
Bachelor of Arts Degree	4	2	6
SCHOOL OF HOME ECONOMICS			
Bachelor of Science Degree	0	4	4
DEPARTMENT OF INDUSTRIAL EDUCATION AND APPLIED SCIENCE			
Bachelor of Science Degree	3	0	3
	<hr/>	<hr/>	<hr/>
Total Bachelor's Degrees	123	112	235
DIVISION OF TECHNICAL AND ADULT EDUCATION			
Associate in Business Degree	4	2	6
Associate in Technology Degree	13	0	13
	<hr/>	<hr/>	<hr/>
Total Associate Degrees	17	2	19
DIVISION OF TECHNICAL AND ADULT EDUCATION			
Certificate in Cosmetology	0	12	12
Certificate in Welding	1	0	1
	<hr/>	<hr/>	<hr/>
Total Certificates	1	12	13

*SUMMARY OF DEGREES AND CERTIFICATES,
JUNE 15, 1958*

	MEN	WOMEN	TOTAL
GRADUATE SCHOOL			
Certificate of Specialist	1	0	1
GRADUATE SCHOOL			
Master of Arts Degree	17	2	19
Master of Fine Arts Degree	1	0	1
Master of Music Degree	3	0	3
Master of Music Education Degree	4	2	6
Master of Science Degree	10	3	13
Master of Science in Education Degree	53	22	75
	<hr/>	<hr/>	<hr/>
Total Master's Degrees	88	29	117
COLLEGE OF EDUCATION			
Bachelor of Music Education Degree	4	8	12
Bachelor of Science in Education Degree	109	173	282
	<hr/>	<hr/>	<hr/>
	113	181	294
COLLEGE OF LIBERAL ARTS AND SCIENCES			
Bachelor of Arts Degree	111	24	135
SCHOOL OF AGRICULTURE			
Bachelor of Science in Agriculture Degree	30	0	30
SCHOOL OF BUSINESS			
Bachelor of Science Degree	83	4	87
SCHOOL OF COMMUNICATIONS			
Bachelor of Science Degree	10	2	12
SCHOOL OF FINE ARTS			
Bachelor of Arts Degree	9	3	12
Bachelor of Music Degree	1	1	2
	<hr/>	<hr/>	<hr/>
	10	4	14
SCHOOL OF HOME ECONOMICS			
Bachelor of Science Degree	0	21	21
DEPARTMENT OF INDUSTRIAL EDUCATION AND APPLIED SCIENCE			
Bachelor of Science Degree	14	0	14
SMALL BUSINESS INSTITUTE			
Bachelor of Science Degree	1	0	1

*SUMMARY OF DEGREES AND CERTIFICATES,
JUNE 15, 1958 (Continued)*

	MEN	WOMEN	TOTAL
ALTON RESIDENCE CENTER			
Bachelor of Arts Degree	0	1	1
Bachelor of Science Degree	5	1	6
	<hr/> 5	<hr/> 2	<hr/> 7
Total Bachelor's Degrees	377	238	615
DIVISION OF TECHNICAL AND ADULT EDUCATION			
Associate in Business Degree	11	11	22
Associate in Technology Degree	76	2	78
	<hr/> 87	<hr/> 13	<hr/> 100
DIVISION OF TECHNICAL AND ADULT EDUCATION			
Certificate in Bookkeeping-Clerical	2	7	9
Certificate in Calculating Machines	1	8	9
Certificate in Cosmetology	0	15	15
Certificate in Practical Nursing	0	9	9
Certificate in Stenographic	0	2	2
Certificate in Welding	3	0	3
	<hr/> 6	<hr/> 41	<hr/> 47
Total Certificates	6	41	47

*SUMMARY OF DEGREES AND CERTIFICATES,
AUGUST 8, 1958*

	MEN	WOMEN	TOTAL
GRADUATE SCHOOL			
Certificate of Specialist	1	0	1
GRADUATE SCHOOL			
Master of Arts Degree	24	8	32
Master of Fine Arts Degree	0	1	1
Master of Music Degree	1	0	1
Master of Music Education Degree	2	1	3
Master of Science Degree	12	5	17
Master of Science in Education Degree	67	22	89
	<hr/>	<hr/>	<hr/>
Total Master's Degrees	106	37	143
COLLEGE OF EDUCATION			
Bachelor of Music Education Degree	1	2	3
Bachelor of Science in Education Degree	63	77	140
	<hr/>	<hr/>	<hr/>
	64	79	143
COLLEGE OF LIBERAL ARTS AND SCIENCES			
Bachelor of Arts Degree	38	7	45
SCHOOL OF AGRICULTURE			
Bachelor of Science in Agriculture Degree	6	0	6
SCHOOL OF BUSINESS			
Bachelor of Science Degree	30	1	31
SCHOOL OF COMMUNICATIONS			
Bachelor of Science Degree	8	2	10
SCHOOL OF FINE ARTS			
Bachelor of Arts Degree	1	1	2
Bachelor of Music Degree	0	1	1
	<hr/>	<hr/>	<hr/>
	1	2	3
SCHOOL OF HOME ECONOMICS			
Bachelor of Science Degree	0	6	6
DEPARTMENT OF INDUSTRIAL EDUCATION AND APPLIED SCIENCE			
Bachelor of Science Degree	8	0	8
DEPARTMENT OF NURSING			
Bachelor of Science Degree	0	1	1

*SUMMARY OF DEGREES AND CERTIFICATES,
AUGUST 8, 1958 (Continued)*

	MEN	WOMEN	TOTAL
ALTON RESIDENCE CENTER			
Bachelor of Music Education Degree	1	0	1
Bachelor of Science in Education Degree	0	2	2
Bachelor of Science	1	0	1
	<hr/>	<hr/>	<hr/>
	2	2	4
	<hr/>	<hr/>	<hr/>
Total Bachelor's Degrees	157	100	257
DIVISION OF TECHNICAL AND ADULT EDUCATION			
Associate in Business Degree	8	4	12
Associate in Technology Degree	10	0	10
	<hr/>	<hr/>	<hr/>
Total Associate Degrees	18	4	22
DIVISION OF TECHNICAL AND ADULT EDUCATION			
Certificate in Bookkeeping-Clerical	0	1	1
Certificate in Cosmetology	2	9	11
Certificate in Practical Nursing	0	6	6
Certificate in Stenographic	0	1	1
	<hr/>	<hr/>	<hr/>
Total Certificates	2	17	19

Index

- Academic load for students: 56-57, 89
- Academic year: division of, into sessions, 5-6
- Accounting, Department of: purpose of program in, 21; suggested elective courses in, 69
- Admissions, Director of. *See* Registrar
- Admission to the University: application for, 47; of freshmen, 47; of transfer students, 47-48; of former students, 48; of foreign students, 48; of unclassified students, 48-49; of graduate students, 49-50; at residence centers, 50
- Adult Education: types of courses offered in, 38-39; course fees, 54
- Advisement, academic, 50, 51
- Agricultural Industries, Department of: programs offered in, 19; suggested elective courses in, 69
- Agriculture, School of: establishment of, 4; functions of, 18; instructional programs offered by, 18, 19-20; facilities of, 18-19; listing of majors and pre-professional programs offered by, 43
- Air Force Reserve Officers Training Corps. *See* Air Science, Division of
- Air Science, Division of: purposes of, 33, 118; requirement in, for bachelor's degree, 34, 66, 118-119; organization of, 34, 118; Basic Course in, 34, 118, 119; Advanced Course in, 34, 118, 119-121; payments made to cadets in, 34, 119, 120-121; deferment from military service for cadets in, 34, 121; equipment furnished by, 34, 121-122; extracurricular activities in, 35; required courses in, 66; listing of faculty of, 117-118; credit for courses in, 121; awards of, 122-123; descriptions of courses in, 123
- Alton Residence Center: location of, 4; establishment of, 5; administrative officers of, 39; types of instruction offered at, 40, 45. *See also* Residence centers
- Alumni Office, 113
- Animal Industries, Department of: programs offered in, 19-20; suggested elective courses in, 69
- Anthropology, Department of: suggested elective courses in, 69
- Applied Science, Department of: programs offered in, 27, 43, 125; listing of faculty of, 125; listing of required courses constituting a major in, 126; descriptions of courses in, 126-129
- Applied Science, School of: establishment of, 4-5. *See also* Applied Science, Department of; Industrial Education, Department of
- Area Services Office: functions of, 111; radio programs produced by, 112; divisions of, 112-115
- Art, Department of: programs offered by, 24; exhibitions presented by, 24, 88; course in, meeting requirement for bachelor's degree, 63; suggested elective courses in, 69-70
- Assistantships, graduate, 14
- Association of Women Students, 103
- Astronomy. *See* Physics and Astronomy, Department of
- Audio-Visual Services, 83, 84, 85
- Auxiliary and Service Enterprises, 6, 7, 9
- Awards, student, 92-93
- Bachelor's degree, requirements for: regarding credit and grades, 61; in social studies, 61-62; in humanities, 63; in biological sciences, 63-64; in mathematics and physical sciences, 64-65; in practical arts and crafts, 65; in physical education, 65-66; in air science, 66; for students intending to take degree elsewhere, 66-67; for students desiring second degree, 67; substitutions for, 67, 68
- Belleville Residence Center: location of, 4; establishment of, 5; director of, 40; types of instruction offered at, 40, 45. *See also* Residence centers
- Biological sciences: requirements in, for bachelor's degree, 63-64
- Botany, Department of: courses in, meeting requirement for bachelor's degree, 64; suggested elective course in, 70
- Buildings, University: listing of, 3
- Business, School of: establishment of, 4; high school preparation for, 21; purpose of, 21; requirements for graduation from, 21; departments in, 21-22; majors offered by, 43
- Business Offices, 6, 7, 8-9
- Campuses, University, 3-4
- Campus Journalism Council: function of, 7; members of, 11
- Certificates awarded: June, 1956, 148; June, 1957, 151; August, 1957, 152; June, 1958, 154; August, 1958, 156

- Chemistry, Department of: courses in, meeting requirement for bachelor's degree, 64; suggested elective course in, 70
- Child Guidance Clinic, 108, 109
- Classification of students, 55-56
- Class periods: when scheduled, 6
- Clothing and Textiles, Department of: suggested elective courses in, 70
- Communications, School of: establishment of, 4; functions of, 22; departments in, 22-23; majors offered by, 43
- Community Concert Association, 87
- Community Development Institute, 29-30
- Community Services, 112-113
- Concerts and recitals, 87
- Co-operative Clinical Services: co-ordination of, 107-108; Health Service, 108; Psychological Clinic, 108; Reading Center, 108; Rehabilitation Institute, 108; marriage counseling, 108; Child Guidance Clinic, 108, 109; Department of Special Education, 109; Speech and Hearing Clinic, 109; Student Counseling and Testing Center, 109
- Correspondence courses: credit for, toward bachelor's degree, 67-68; final examinations for, 107
- Council on Intercollegiate Athletics: function of, 7; members of, 11
- Counseling, student: provided by Student Counseling and Testing Service, 105; pre-college, 105; vocational information, 105-106; veterans' and military service information, 106; study skills, 106; marriage, 106
- Course numbering system, 56
- Credit: for extension work, 35-36, 67; unit of, 56; for correspondence work, 67-68; for military experience, 68
- Degrees awarded: June, 1956, 148; August, 1956, 149; June, 1957, 150; August, 1957, 152; June, 1958, 153-154; August, 1958, 155-156
- Degrees offered by the University: history of, 4; graduate, 13-14; listing of, 61
- Departmental clubs, 103
- Design, Department of: programs offered by, 24-25
- East St. Louis Residence Center: location of, 4; establishment of, 5; administrative officers of, 39; types of instruction offered at, 40, 45. *See also* Residence Centers
- Economics, Department of: purpose of program in, 21; course in, meeting requirement for bachelor's degree, 62; suggested elective courses in, 70-71
- Education, College of: establishment of, 4; functions of, 16; career preparation offered by, 16-17; degrees granted by, 17; departments in, 17-18; majors offered by, 42
- Educational Administration and Supervision, Department of: function of, 17; suggested elective course in, 71
- Educational Service Council: function of, 7; members of, 10
- Elective courses, listing of suggested: in accounting, 69; in agricultural industries, 69; in animal industries, 69; in anthropology, 69; in art, 69-70; in astronomy, 70; in botany, 70; in chemistry, 70; in clothing and textiles, 70; in economics, 70-71; in educational administration and supervision, 71; in English, 71; in food and nutrition, 71; in foreign languages, 71-72; in forestry, 72; in geography, 72; in geology, 72-73; in government, 73; in health education, 73; in history, 73; in home and family, 73; in home economics education, 74; in humanities, 74; in industrial education, 74; in journalism, 74; in management, 74; in marketing, 74; in microbiology, 74-75; in music, 75; in nursing, 75; in philosophy, 75-76; in physical education for women, 76; in physics, 76; in physiology, 76; in plant industries, 76-77; in printing and photography, 77; in psychology, 77; in radio-television, 77; in recreation and outdoor education, 77; in sciences, 78; in secretarial and business education, 78; in social studies, 78; in special education, 78; in speech, 78; in speech correction, 79; in theater, 79; in zoology, 79
- Elementary Education, Department of: function of, 17
- Employment, student, 89-90
- English, Department of: courses in, meeting requirement for bachelor's degree, 63; suggested elective courses in, 71
- Enrollment, University: 1955-56, 145; 1956-57, 146; 1957-58, 147
- Evening classes: when scheduled, 6
- Exhibitions, art: presented by Department of Art, 88
- Expenses, student: estimated yearly, 54-55
- Extension, Division of University: purpose of, 35; activities of, 35-36
- Extension courses: scheduling of, 35; credit for, toward bachelor's degree, 35-36, 67; fees for, 54

- Faculty Council: function of, 7; members of, 9-10
- Fees: for one quarter, 52-53; special, 53; exemptions from and reductions in, 53; adult education, 54; extension, 54; payment of, 54; refunding of, 54
- Fellowships, graduate, 14
- Financial assistance to students: graduate fellowships, assistantships, and scholarships, 14; program of, 91; scholarships, 91-92; awards, 92-93; prizes, 93-94; grants-in-aid, 94; application for, 95; private agency awards, 95; student loan funds, 95-96; state teacher education scholarships, 96-97; state scholarships, 97; federal assistance to veterans, 97-98; benefits under Public Law 634, 98; vocational rehabilitation, 98; Illinois military scholarships, 98-99; from Governor's Committee for Veterans' Rehabilitation and Employment, 99
- Fine Arts, School of: establishment of, 4; functions of, 24; events, exhibitions, and music programs sponsored by, 24; departments of, 24-25; majors offered by, 43
- Fine Arts Festival, 24, 87
- Food and Nutrition, Department of: suggested elective courses in, 71
- Foreign Languages, Department of: suggested elective courses in, 71-72
- Forestry, Department of: program in, 20; suggested elective course in, 72
- Fraternities, professional, 103
- Fraternities, social, 102, 103
- Freshman Convocations, 55, 86-87
- General Educational Development Tests: admission by, 47; credit not allowed for, 68; administration of, 106
- Geography, Department of: course in, meeting requirement for bachelor's degree, 62; suggested elective courses in, 72
- Geology, Department of: suggested elective courses in, 72-73
- Government, Department of: course in, meeting requirement for bachelor's degree, 62; suggested elective courses in, 73
- Governor's Committee for Veterans' Rehabilitation and Employment, 99
- Grading system, 57-58
- Graduate Council: function of, 7; members of, 10
- Graduate School: history of, 4; purpose of, 13; areas and departments in, 13; degrees and Specialist's Certificate awarded by, 13-14; fellowships, assistantships, and scholarships in, 14; admission to, 14, 49-50; majors offered by, 41
- Grants-in-aid to students, 94
- Guidance, Department of: function of, 11
- Health Education, Department of: function of, 17; course in, meeting requirement for bachelor's degree, 63; suggested elective courses in, 73
- Health Service, University, 88-89, 108
- History, Department of: courses in, meeting requirement for bachelor's degree, 62; suggested elective course in, 73
- Home and Family, Department of: suggested elective courses in, 73
- Home Economics, School of: establishment of, 4; objectives of, 25-26; curricula in, 26-27; majors offered by, 43
- Home Economics Education, Department of: suggested elective course in, 74
- Honorary societies, 103
- Honors courses, 59-60
- Honors Day Convocation, 58-59
- Housing: University, 100-101; women's, 100; men's, 101; family, 101; cost of, in University residence halls, 101; off-campus, 101-102
- Humanities: requirements in, for bachelor's degree, 63
- Humanities, Department of: suggested elective course in, 74
- Illinois military scholarships, 98-99
- Industrial Education, Department of: purpose of, 27-28; curricula in, 28, 132-133; majors offered by, 44; suggested elective course in, 74; listing of faculty of, 131; degree programs in, 131-132; descriptions of courses in, 133-137
- Information Service, 113-114
- Institutes: listing of, 44
- Instructional Materials, Department of: function of, 17
- Journalism, Department of: training offered by, 22; suggested elective courses in, 74
- Labor Institute, 31
- Latin American Institute: purposes of, 31-32; course requirements of, 32-33
- Leadership training for students, 105
- Lectures: presented on campus, 87
- Liberal Arts and Sciences, College of: establishment of, 4; functions and purposes of, 14-15; high school preparation for, 15; departments of, 15; purpose of social studies in, 15; purpose of science studies in, 15-16; purpose of humanities studies in, 16; pre-professional programs offered by, 16, 42; majors offered by, 42

- Libraries, University: listing of staff of, 81-82; divisions of, 82-83; general resources of, 83; special facilities of, 83; Audio-Visual Services of, 83, 84, 85; special collections of, 83-84; Textbook Service of, 84; archives of, 84; bibliographical facilities of, 85; regional library center in, 85
- Little Grassy Lake: summer camp at, 3, 18
- Loan funds, student, 95-96
- Majors, listing of available: in Graduate School, 41; in College of Education, 42; in College of Liberal Arts and Sciences, 42; in School of Agriculture, 43; in School of Business, 43; in School of Communications, 43; in School of Fine Arts, 43; in School of Home Economics, 43; in Department of Applied Science, 43; in Department of Industrial Education, 44; in Department of Nursing, 44
- Management, Department of: programs in, 21-22; suggested elective courses in, 74
- Marketing, Department of: function of, 22; suggested elective course in, 74
- Marriage counseling, 106, 108
- Mathematics, Department of: courses in, meeting requirement for bachelor's degree, 64
- Mathematics and physical sciences: requirements in, for bachelor's degree, 64
- Microbiology, Department of: suggested elective course in, 74-75
- Military service: deferment from, for ROTC cadets, 34, 121; academic load of students deferred from, 57; University credit for, 68; information available about, 106. *See also* Veterans
- Motor vehicles: on University campuses, 55
- Museum, University, 85-86
- Music, Department of: curricula offered by, 25; course in, meeting requirement for bachelor's degree, 63; suggested elective courses in, 75; music programs sponsored by, 87
- New Student Week, 51
- Nursing, Department of: purposes of, 29, 139; high school preparation for, 29, 140; basic professional curriculum in, 29, 139, 140; supplemental program for registered nurses in, 29, 140, 141-142; major offered by, 44; suggested elective courses in, 75; listing of faculty of, 139; descriptions of courses in, 142-143
- Personnel Office, 6, 7, 9
- Philosophy, Department of: suggested elective courses in, 75-76
- Photographic Service, 114
- Physical education: requirements in, for bachelor's degree, 65; waiving of requirements in, 67
- Physical Education for Men, Department of: function of, 17; courses in, meeting requirement for bachelor's degree, 65
- Physical Education for Women, Department of: function of, 18; courses in, meeting requirement for bachelor's degree, 66; suggested elective courses in, 76
- Physical Plant Office, 111
- Physical sciences, mathematics and: requirements in, for bachelor's degree, 65
- Physics and Astronomy, Department of: courses in, meeting requirement for bachelor's degree, 65; suggested elective course in, 70
- Physiology, Department of: suggested elective courses in, 76
- Placement Service, 114-115
- Plant Industries, Department of: programs offered in, 20; suggested elective courses in, 76-77
- Practical arts and crafts: requirements in, for bachelor's degree, 65
- Pre-professional programs, listing of: in College of Liberal Arts and Sciences, 42; in School of Agriculture, 43
- President, Office of the, 6, 7-8
- Presidents of the University: listing of, 5
- Printing and Photography, Department of: training offered by, 23; suggested elective course in, 77
- Printing Service, 110
- Private agency awards available to students, 95
- Prizes available to students, 93-94
- Probation, scholastic: academic load for students on, 57; rules governing, 60-61
- Program changes: procedure for, 52
- Psychological Clinic, 108
- Psychology, Department of: suggested elective course in, 77
- Radio programs, University, 23, 112
- Radio-Television, Department of: training offered by, 23; suggested elective courses in, 77
- Reading Center, 108
- Recreation and Outdoor Education, Department of: function of, 18; suggested elective course in, 77
- Registrar, 6, 8
- Registration: advance, 51; at residence centers, 51-52
- Regulations, University: changing of, 5
- Rehabilitation Institute, 33, 108

- Religious organizations, student, 104
- Residence centers: location of, 4; establishment of, 5; administrative officers of, 39-40; programs offered by, 40, 45; admission to, 50; advisement and registration at, 51-52
- Scholarships: in Graduate School, 14; at the University, 91-92; teacher education, 96-97; state, 97; military, 98-99. *See also* Financial assistance to students
- Sciences, Department of: suggested elective course in, 78
- Secondary and Higher Education, Department of: function of, 18
- Secretarial and Business Education, Department of: training offered by, 22; suggested elective courses in, 78
- Secretary of the University Faculty, 7, 8
- Service organizations, student, 104
- Sixth-Year Program, 13, 50
- Small Business Institute, 30-31
- Social studies: requirements in, for bachelor's degree, 61-62
- Social Studies, Department of: suggested elective course in, 78
- Sociology, Department of: course in, meeting requirement for bachelor's degree, 62; marriage counseling service of, 106, 108
- Sororities, 102, 103
- Southern Players, 87-88
- Southwestern Illinois Residence Office: location of, 3-4, 40; function of, 4, 40-41; administrative officers of, 39
- Special Education, Department of: function of, 18; suggested elective course in, 78; assistance to mentally retarded and specially handicapped, 109
- Speech, Department of: training offered by, 23; suggested elective courses in, 78
- Speech and Hearing Clinic, 109
- Speech Correction, Department of: training offered by, 23; suggested elective courses in, 79
- State scholarships, 97
- State teacher education scholarships, 96-97
- Statistical Service, University, 109
- Stenographic Service, 90
- Student activities: student governing groups, 102-103; departmental, honorary, and professional organizations, 103; social fraternities and sororities, 103; special interest groups, 104; religious organizations, 104; service organizations, 104; special events, 104; leadership training, 105
- Student Activities Office, 102-105
- Student Affairs, Office of, 90-91. *See also* Student Special Services; Student Activities Office; Student Counseling and Testing Service
- Student Council: function of, 7, 102; members of, 10
- Student Counseling and Testing Service, 105-107, 109
- Student governing groups: Student Council, 102; Social Senate, 102-103; Student Union Board, 103; Association of Women Students, 103; living group councils, 103
- Student Special Services: student financial assistance, 91-99; housing, 99-102
- Student Work Program, 89-90
- Summer session: types of courses offered in, 5-6; scheduling of class periods in, 6
- Teaching certificates, 67
- Teacher Training Division, 18
- Technical and Adult Education, Division of: location of, 3; establishment of, 5; function of, 36. *See also* Vocational-Technical Institute; Adult Education
- Testing services: test administration, 106; state and national testing programs, 106-107; correspondence course final examinations, 107; test scoring and research, 107
- Textbook Service, 84
- Theater, Department of: training offered by, 23; touring theater of, 36; suggested elective courses in, 79; dramatics organization sponsored by, 87-88
- Touring theater, 36
- Transcripts of student records, 54
- University: history of, 4-5
- University Architect, Office of the, 110-111
- University Budgetary Council: function of, 7; members of, 11
- University Council: function of, 7; members of, 11
- University Council on Campus Development: function of, 7; members of, 11
- University Instructional Aids Council: function of, 7; members of, 10-11
- University Press, 110
- University School, 18
- Veterans: academic load required for subsistence payments to, 57; credit for military experience of, 68; federal assistance to, 97-98; Illinois military scholarships for, 98-99; rehabilitation assistance available to, 99; information for, 106

Vice-President for Business Affairs, 6, 6-7, 8

Vice-President for Instruction, 6, 8

Vocational rehabilitation for students: available from State Board for Vocational Education, 98; available from Governor's Committee for Veterans' Rehabilitation and Employment, 99; available from Rehabilitation Institute, 108

Vocational-Technical Institute: purpose of, 36; Associate in Technology programs

in, 36-37; Associate in Business programs in, 37-38; one-year certificate programs in, 38; listing of programs in, 44

Withdrawal from the University: procedure for, 52; refunding of funds in, 54

Zoology, Department of: course in, meeting requirement for bachelor's degree, 64; suggested elective courses in, 79

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