

EASTERN ILLINOIS UNIVERSITY



GENERAL CATALOG

1971

THE STUDENT'S RESPONSIBILITY

All colleges establish certain requirements which must be met before a degree is granted. These requirements concern such things as courses, majors and minors, and residence. Advisors and deans will always help a student meet these requirements, but the student himself is responsible for fulfilling them. At the end of his course the University decides whether or not the student will receive a degree. If requirements have not been met, the degree will be refused until such time as they have been met. For this reason it is important for each student to acquaint himself with the requirements and continue to keep himself informed about them during his college career.

Also, it is necessary in the general administration of a college to establish broad policies and to lay down certain regulations and procedures by which they may be carried out. It is important that a student understand the policies and know the regulations and procedures he is expected to follow. When changes are announced between catalog publications, they are published in the Official Notices in the Eastern News and posted on the official bulletin board near the Office of the Dean of Student Academic Services. Students are responsible for knowing these changes.

The catalog is presented, therefore, not only to enable prospective students and others to learn about Eastern Illinois University, Charleston, but to state policies, requirements, regulations, and procedures in such form as will be of help to the student as he goes through school.

THE UNIVERSITY POLICY ON NON-DISCRIMINATION

The University is committed to a policy of non-discrimination with respect to race, religion, and national origin in all facets of University life and administration.

EASTERN ILLINOIS UNIVERSITY

CATALOG

APRIL, 1971



72nd YEAR

ACADEMIC RECORD 1970-71 SESSIONS

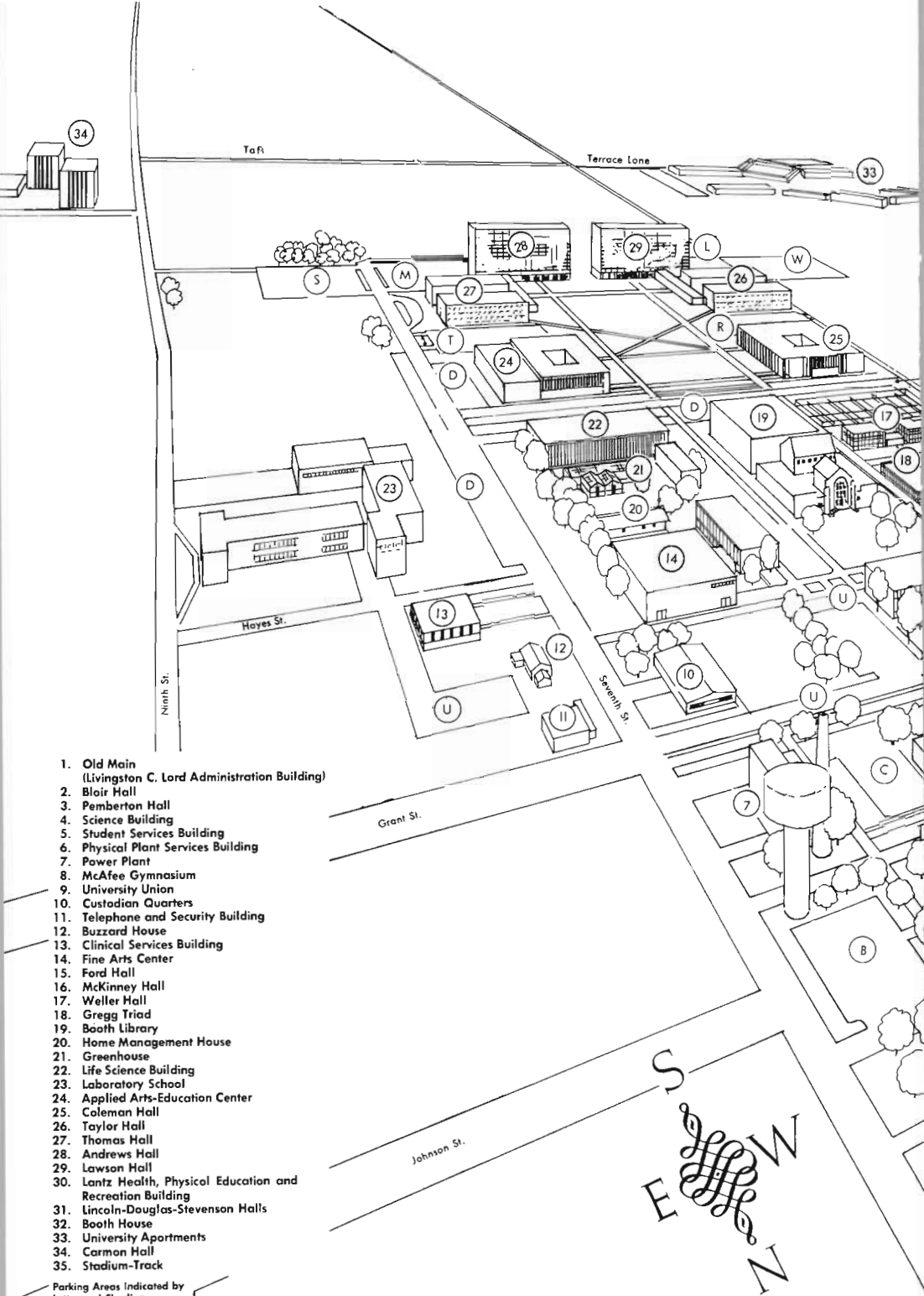
ANNOUNCEMENTS

for

SUMMER 1971

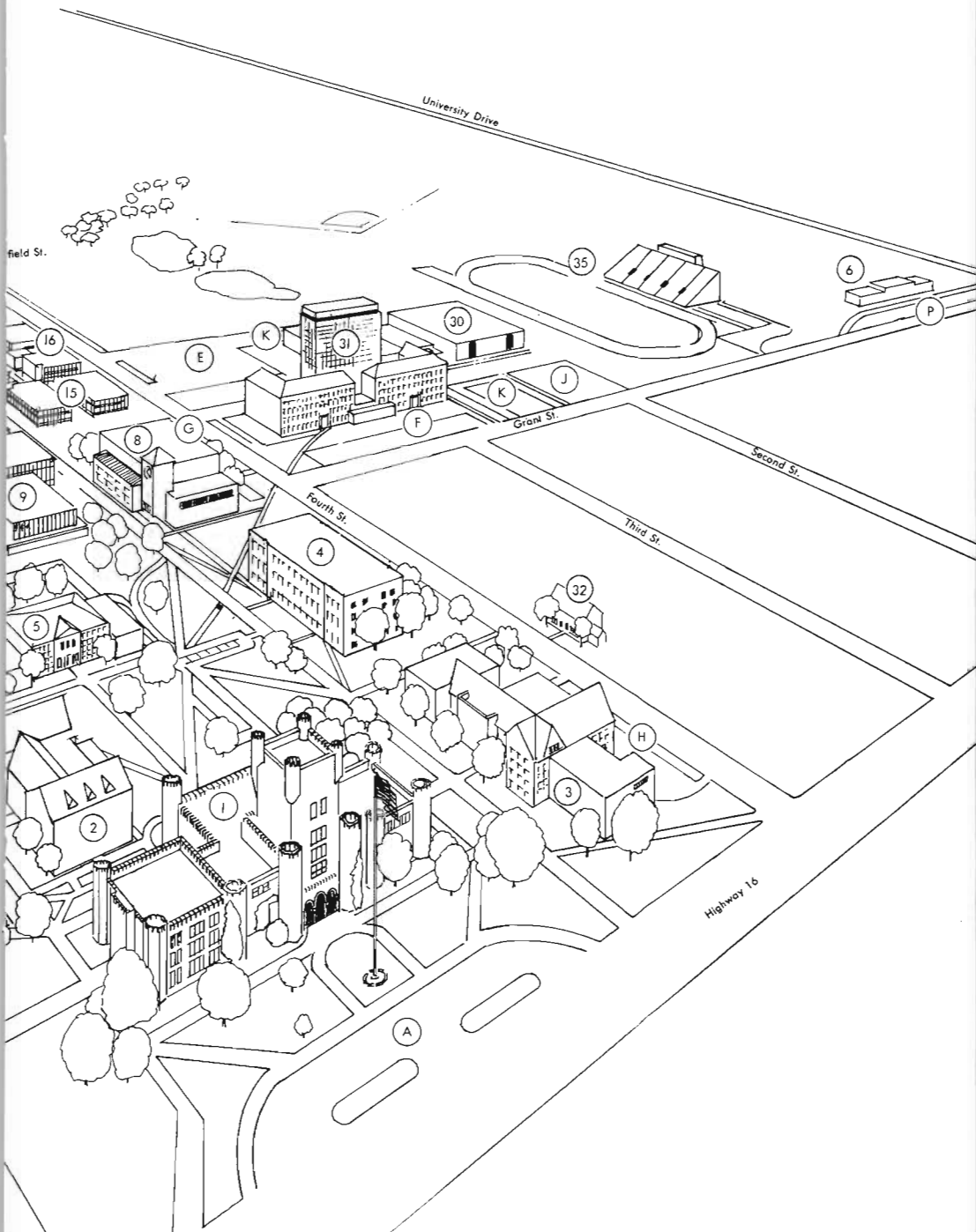
and

1971-72 SESSIONS



1. Old Main
(Livingston C. Lord Administration Building)
2. Blair Hall
3. Pemberton Hall
4. Science Building
5. Student Services Building
6. Physical Plant Services Building
7. Power Plant
8. McAfee Gymnasium
9. University Union
10. Custodian Quarters
11. Telephone and Security Building
12. Buzzard House
13. Clinical Services Building
14. Fine Arts Center
15. Ford Hall
16. McKinney Hall
17. Weller Hall
18. Gregg Triad
19. Booth Library
20. Home Management House
21. Greenhouse
22. Life Science Building
23. Laboratory School
24. Applied Arts-Education Center
25. Coleman Hall
26. Taylor Hall
27. Thomas Hall
28. Andrews Hall
29. Lawson Hall
30. Lantz Health, Physical Education and Recreation Building
31. Lincoln-Douglas-Stevenson Halls
32. Booth House
33. University Apartments
34. Carmon Hall
35. Stadium-Track

Parking Areas Indicated by Letter and Shading



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This catalog includes information concerning admission, registration, fees, housing, course offerings, etc., as it pertains to the summer sessions of 1971.

Undergraduate Quarter, June 7 to August 13

Graduate Term, June 21 to August 13

NOTICE

As necessary, supplements containing important changes in this catalog will be issued. When issued, such supplements will be distributed during the first two weeks of each quarter.

WORKSHOPS, INSTITUTES, SPECIAL EVENTS

SUMMER 1971

CAMPUS WORKSHOPS

Education 488: Preparation and Use of Instructional Materials	June 1-June 18
Education 549: Behavior Modification	June 1-18
Music 545: Music for Children	June 7-18
Education 549: School Community Relations	June 7-18
Music 546: Instructional Resources - Music Teaching	June 7-18
Education 579: Individual Study in Education	June 7-24
PEW 356: Outing Crafts	June 7-25
Administration and Supervision of Occupational Education (Bus. Ed. 506, Education 506, Health Ed 506, Home Ec 506, or Ind. Arts 506.)	June 7-25
Art 309: Survey of Two Dimensional Art	June 7-28
Soc Sci 540: Problems in Teaching Social Science	June 7-July 2
Education 460: Junior High Science Education	June 14-July 2
Inservic Workshop: Clothing Alteration Techniques	June 15-17
School Lunch Personnel	June 21-25
PEM 541: Advanced Coaching of Baseball	June 21-July 2
Education 460: Studies in Education: Junior High School	June 21-July 9
Music 480: Directing the Chamber Choir	June 27-July 3
Music 480: Stage Band Techniques	June 27-July 3
Health Ed 480: Alcohol, Narcotics, Hallucinogenic Drugs	June 28-July 16
Occupational - Cooperative Education (Bus. Ed 505, Education 505, Health Ed 505, Home Ec 505, or Ind. Arts 505.)	June 28-July 16
PEM 542: Advanced Coaching of Basketball	July 5-July 16
PEM 544: Advanced Coaching of Track and Field	July 19-July 30
Bus. Ed 507: Simulated Project Development in Office Occupations	July 19-Aug. 6
Health Ed 507: Seminar in Health Occupations	July 19-Aug. 6
PEM 592: Workshop in School Recreation	July 19-Aug. 6
High School Publications	July 25-31
PEM 540: Advanced Techniques of Athletic Training.	Aug. 2-Aug. 13
PEM 543: Advanced Coaching of Football	Aug. 2-Aug. 13

SUMMER INSTITUTE

NSF - High School Science Teachers	June 21-Aug. 13
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STUDY ABROAD

Education 555: Comparative Education - Europe	June 24-July 29
Summer Study in Ireland - Dublin	July 12-Aug. 26
Home Ec 502: People to People - Europe	Aug. 17-Sept. 8

Information concerning the foregoing, to include enrollment, fees, and accommodations may be obtained by writing to the Director of Extension.

UNIVERSITY CALENDAR

1971-72

SUMMER QUARTER, 1971

Early Graduate Registration	May 22
Last Day for Undergraduates to Apply for Summer Quarter	
Graduation	June 7
Undergraduate Session Registration	June 7
Undergraduate Classes Begin	June 8
Last Day to Add Courses in Undergraduate Session	June 14
Last Day to Drop Courses with No Grade in Undergraduate	
Session	June 18 (5 PM)
Last Day for Graduates to Apply for Summer Quarter	
Graduation	June 21
Graduate Session Registration	June 21
Graduate Classes Begin	June 22
Last Day to Add Courses in Graduate Session	June 24
Last Day to Drop Courses with No Grade in Graduate Session	June 28 (5 PM)
Independence Day Observance - No Classes	July 5
Last Day for Grade of W upon Withdrawal in Undergraduate	
Session	July 6
Begin W or WF Grades upon Withdrawal in Undergraduate	
Session	July 7
Mid-Term - Undergraduate Session	July 7
Constitution Examination	July 9
Last Day for Grade of W upon Withdrawal in Graduate	
Session	July 9
Begin W or WF Grades upon Withdrawal in Graduate Session	July 12
Last Day to Apply for Teacher Certification	July 16
Last Day to Withdraw from Courses or University	July 23
Examinations	August 9-12
Commencement	August 12
Quarter Closes	August 13

FALL QUARTER, 1971

Early Graduate Registration	September 4
Parents Convocation	September 6
Last Day to Apply for Fall Quarter Graduation	September 7
Registration	September 7, 8
Classes Begin	September 9
Last Day to Add Courses	September 14
Last Day to Drop Courses with No Grade	September 17 (5 PM)
Last Day for Grade of W upon Withdrawal	October 7
Begin W or WF Grades upon Withdrawal	October 8
Mid-Term	October 12
Constitution Examination	October 12
Last Day to Apply for Teacher Certification	October 12
Last Day to Withdraw from Courses or University	November 3
Study Day	November 17
Examinations	November 18,19,22,23
Commencement	November 20
Quarter Closes	November 24

WINTER QUARTER, 1971-72

Early Graduate Registration	November 20
Last Day to Apply for Winter Quarter Graduation	December 1
Registration	December 1
Classes Begin	December 2
Last Day to Add Courses	December 8
Last Day to Drop Courses with No Grade	December 10 (5 PM)
Christmas Vacation Begins	December 17 (7 PM)
Classes Resume	January 3 (8 AM)
Last Day for Grade of W upon Withdrawal	January 14
Begin W or WF Grades upon Withdrawal	January 17
Last Day to Apply for Teacher Certification	January 18
Mid-Term	January 19
Constitution Examination	February 8
Last Day to Withdraw from Courses or University	February 10
Study Day	February 24
Examinations	February 25,28,29, March 1
Commencement	February 26
Quarter Closes	March 2

SPRING QUARTER, 1972

Early Graduate Registration	February 26
Last Day to Apply for Spring Quarter Graduation	March 9
Registration	March 9
Classes Begin	March 10
Last Day to Add Courses	March 16
Last Day to Drop Courses with No Grade	March 20 (5 PM)
Good Friday Observance - No Classes	March 31
Last Day for Grade of W upon Withdrawal	April 7
Begin W or WF Grades upon Withdrawal	April 10
Last Day to Apply for Teacher Certification	April 11
Mid-Term	April 14
Constitution Examination	April 18
Last Day to Withdraw from Courses or University	May 5
Commencement	May 21
Examinations	May 22-25
Quarter Closes	May 26

SUMMER QUARTER, 1972

Early Graduate Registration	May 20
Last Day for Undergraduates to Apply for Summer Quarter Graduation	June 5
Undergraduate Session Registration	June 5, 6
Undergraduate Classes Begin	June 7
Last Day to Add Courses in Undergraduate Session	June 13
Last Day to Drop Courses with No Grade in Undergraduate Session	June 16 (5 PM)
Last Day for Graduates to Apply for Summer Quarter Graduation	June 19
Graduate Session Registration	June 19
Graduate Classes Begin	June 20
Last Day to Add Courses in Graduate Session	June 22
Last Day to Drop Courses with No Grade in Graduate Session	June 26 (5 PM)
Independence Day Observance - No Classes	July 3, 4
Last Day for Grade of W upon Withdrawal in Undergraduate Session	July 5
Begin W or WF Grades upon Withdrawal in Undergraduate Session	July 6
Mid-Term - Undergraduate Session	July 6
Last Day for Grade of W upon Withdrawal in Graduate Session	July 7
Begin W or WF Grades upon Withdrawal in Graduate Session	July 10
Last Day to Apply for Teacher Certification	July 11
Constitution Examination	July 18
Last Day to Withdraw from Courses or University	July 21
Commencement	August 5
Examinations	August 7-10
Quarter Closes	August 11

THE BOARD OF GOVERNORS OF STATE COLLEGES AND UNIVERSITIES

Appointed Members (and terms)

Royal A. Stipes, Jr., Champaign (1965-71)
Marion Lamet, Warsaw (1967-71)
Murray H. Finley, Skokie (1968-71)¹
Joseph R. Hale, Ridgeway (1970-73)
Keith I. Parsons, Hinsdale (1970-73)
Charles A. Davis, Chicago (1967-73)
E. Leland Webber, Wilmette (1967-75)
Howard V. Phalin, Winnetka (1969-75)
Louis Schuette, Rockford (1969-75)

Ex Officio Member

Michael J. Bakalis, Superintendent of Public Instruction, Springfield

Officers

Royal A. Stipes, Jr., Chairman
Benjamin L. Morton, Executive Officer, Springfield

¹Resigned January 14, 1971

EASTERN ILLINOIS UNIVERSITY

CHARLESTON

FACULTY, 1970-71

(Date of joining staff in parentheses)

ADMINISTRATIVE STAFF

OFFICE OF THE PRESIDENT

President

Quincy Doudna, Ph.D., University of Wisconsin, LL.D., Carroll College (1956)

Vice President

William H. Zeigel, Ph.D., University of Missouri (1937)

ACADEMIC AFFAIRS

Provost and Vice President for Academic Affairs

Peter R. Moody, Ph.D., Cambridge University (1967)

COLLEGE OF LETTERS AND SCIENCE

- Lawrence A. Ringenberg, Ph.D., The Ohio State University, Dean of the College (1947)
Lawrence R. Nichols, Ph.D., Duke University, Chairman, Division of Latin-American Studies (1966)
William M. Cloud, Ph.D., University of Wisconsin, Chairman, Division of Pre-Engineering Studies (1962)
Robert J. Smith, Ph.D., The University of Iowa, Chairman, Division of Pre-Medical Studies (1955)
Raymond A. Plath, Ph.D., University of Wisconsin, Chairman, Division of Social Sciences (1946)
Leonard Durham, Ph.D., University of Illinois, Director, Division of Life Sciences (1955)

FACULTY OF EDUCATION

- Harry J. Merigis, Ed.D., University of Oklahoma, Dean of the Faculty (1954)
George W. Schlinsog, D.Ed., University of Oregon, Assistant Dean for Administration (1967)
Charles Kofoid, Ed.D., University of Nebraska, Assistant Dean for Instruction (1970)
Robert Zabka, Ph.D., Northwestern University, Director of Student Teaching (1964)
Donald G. Gill, D.Ed., University of Illinois, Principal of the Laboratory School (1960)
Charles L. Joley, Ed.D., University of Illinois, Coordinator, Vocational-Technical Education (1970)

GRADUATE SCHOOL

- Lavern M. Hamand, Ph.D., University of Illinois, Dean (1957)

SCHOOL OF BUSINESS

- James F. Giffin, Ph.D., Northwestern University, Dean (1947)

SCHOOL OF HEALTH, PHYSICAL EDUCATION AND RECREATION

- Walter S. Lowell, Ed.D., Michigan State University, Dean (1961)
Tom Katsimpalis, Ed.D., University of Northern Colorado, Director of Athletics (1959)

SCHOOL OF HOME ECONOMICS

- Mary Ruth Swope, Ed.D., Columbia University, Dean (1962)

SCHOOL OF INDUSTRIAL ARTS AND TECHNOLOGY

- Wayne D. Coleman, D.Ed., University of Northern Colorado, Dean (1957)

SCHOOL OF MUSIC

Robert Y. Hare, Ph.D., The University of Iowa, Dean (1965)

Rhoderick E. Key, M. Mus. Ed., Southern Illinois University, Assistant to Dean,
(1966)

LIBRARY SERVICES

B. Joseph Szerenyi, D. Pol. S., Elizabeth University, Hungary, Director (1967)

FACULTY RESEARCH

Jimmie L. Franklin, Ph.D., University of Oklahoma, Director (1970)

EXTENSION

George Hackler, Jr., M.S. in Ed., Eastern Illinois University, Director (1967)

AUDIO-VISUAL CENTER

Verne A. Stockman, Ed.D., Michigan State University, Director (1955)

Frederick L. Kennerly, M.Ed., University of Nebraska, Assistant (1969)

Floyd A. Landsaw, Ed.D., Indiana University, Assistant (1965)

STUDENT AFFAIRS**Vice President for Student Affairs**

Glenn D. Williams, Ph.D., The Ohio State University (1960)

STUDENT PERSONNEL ADMINISTRATION

Ross C. Lyman, M.S., Indiana State University, Acting Dean (1961)

Mary P. Rogers, Ed.D., Indiana University, Assistant Dean and Dean of Women
(1966)

James E. Johnson, M.A., New York University, Assistant Dean (1970)

STUDENT HOUSING

Donald A. Kluge, D.Ed., Indiana University, Dean (1957)

RESIDENCE HALL PROGRAMMING AND COUNSELING ASSISTANTS

Marie Bevan, M.S., University of Wisconsin (1966)

Louis V. Hencken, M.S. in Ed., Eastern Illinois University (1967)

HOUSING ASSISTANTS

Robert R. Miller, M.S., Millikin University, Assistant (1969)
Richard G. Enochs, M.S. in Ed., Eastern Illinois University, Assistant (1969)

RESIDENCE HALL FOOD SERVICE

Ruth H. Gaertner, M.S., Iowa State College, Director, (1947)

RESIDENCE HALL COUNSELORS

Jo Anne Stuebe, M.S. in Ed., Eastern Illinois University (1962)
Barbara A. Busch, M.S. in Ed., Indiana University (1964)
Nancy Tait, M.S., Northern Illinois University (1964) (On leave, 1970-71)
Ann H. Adman, M.Ed., Wittenberg University (1966)
Doris J. Dunkirk, M.S. in Ed., Eastern Illinois University (1967)
Bessie M. Fredericks, M.A., University of Missouri (1967)
Margaret J. Reed, M.A., Western Michigan University (1967)
Jurel V. Jackson, M.E.Ed., Northwest Missouri State College (1968)
Le T. N. Lien, M.A. in Ed., University of Northern Iowa (1968)
Joyce A. Pachciarz, M.S., Eastern Illinois University (1968) (On leave 1970-71)
Kristan Jensen, B.S., Eastern Illinois University (1970)
Mary M. Smith, M.S., Indiana University (1970)
Beverly Sublette, M.S. in Ed., Eastern Illinois University (1970)
Walter W. Grant, M.S., Illinois State University (1969)
Jerome C. Metzger, M.S. in Ed., Eastern Illinois University (1969)
Emerson Ahrens, M.S. in Ed., Eastern Illinois University (1970)
Phillip J. Waller, B.S., University of Wisconsin (1970)
James M. Wolford, M.S., Indiana University (1970)

STUDENT SERVICES

Ross C. Lyman, M.S., Indiana State University, Acting Dean (1961)

COUNSELING AND TESTING SERVICES

Herbert C. Bartling, M.Ed., University of Texas, Acting Director (1969)
John E. Grimes, Jr., M.A., Southern Illinois University, Counseling Psychologist
(1968)
Irving M. Munn, A.B., Cornell University, Clinical Psychologist (1969)
David T. Baird, M.S. in Ed., Indiana University, Counselor (1959)

FINANCIAL AIDS

Sue C. Sparks, M.S. in Ed., Eastern Illinois University, Acting Director (1966)
Lois M. Kramer, M.A., Boston University, Assistant (1966)
Elmer Pullen, B.S., Eastern Illinois University, Counselor (1970)
Judy Brewer, Assistant (1970)

FOREIGN STUDENTS

Carl A. Filskow, M.Ed., Wayne State University, Adviser (1968)

HEALTH SERVICES

Jerry D. Heath, M.D., University of Illinois, Director and University Physician (1956)

Myron I. Boylson, M.D., University of Chicago, Assistant (1968)

Gilbert T. Ransom, M.D., Vanderbilt University, Assistant (1969)

VETERANS SERVICES

William D. Miner, Ph.D., Indiana University, Assistant Dean (1950)

Albert G. Green, Ed.D., University of Southern Mississippi, Assistant (1966)

STUDENT ACTIVITIES AND ORGANIZATIONS

Glenn D. Williams, Ph.D., The Ohio State University, Acting Dean (1960)

Jerry Zachary, Adv.C., University of Illinois, Assistant Dean (1966)

Warren J. Wilhelm, Jr., Ed.D., Indiana University, Coordinator of Student Activities (1969)

UNIVERSITY UNION

Herbert L. Brooks, B.S. in Ed., Eastern Illinois University, Director (1966)

Edwin T. McCawley, Assistant Director (1969)

William L. Clark, B.S. in Ed., Eastern Illinois University, Assistant Director (1968)

STUDENT ACADEMIC SERVICES

Samuel J. Taber, Ph.D., Southern Illinois University, Dean (1960)

JUNIOR COLLEGE RELATIONS

Maurice W. Manbeck, Ph.D., University of Minnesota, Associate Dean (1957)

RECORDS

James E. Martin, M.A., University of Illinois, Assistant Dean (1968)

Richard L. Campbell, M.S.Ed., Eastern Illinois University, Assistant (1968)

REGISTRATION

Edward T. Graening, M.A., University of Illinois, Assistant Dean (1967)

William R. Quick, M.S. in Ed., Eastern Illinois University, Assistant (1967)

ACADEMIC ADVISEMENT

William G. Hooper, M.S. Ed., Illinois State University, Director (1962)

Thomas E. McDevitt, M.A., Southern Illinois University, Adviser (1966)

Claud D. Sanders, M.S. in Ed., Eastern Illinois University, Adviser
Robert G. Winkleblack, M.S. in Ed., Eastern Illinois University, Adviser
Calvin B. Campbell, M.A., University of New Mexico, Adviser (1966)
Janet F. Holley, M.S. in Ed., Eastern Illinois University, Adviser (1968)
Donald L. Schaefer, M.Ed., University of Illinois, Adviser (1968)
Dale H. Kuntzman, M.A., Wayne State University, Adviser (1969)
Vanlou Trank, M.S., Indiana University, Adviser (1970)
Arthur L. Snider, M.S., Ball State University, Adviser (1970)
Ulestine Watson, M.S. in Ed., Eastern Illinois University, Adviser (1970)

PLACEMENT

James F. Knott, Ed.D., Northern Illinois University, Director (1957)
Robert E. Jones, M.S., Indiana State University, Assistant Director (1963)

ADMISSIONS AND HIGH SCHOOL RELATIONS

Murray R. Choate, M.S. in Ed., Southern Illinois University, Director (1962)
C. Michael David, M.S. in Ed., Eastern Illinois University, Assistant
Director (1968)
Ernest R. Morris, M.S. in Ed., Eastern Illinois University, Assistant (1969)

BUSINESS SERVICES

Vice President

Harley J. Holt, M.S., University of Wisconsin (1963)

Marion L. Zane, M.S. in Ed., Eastern Illinois University, Controller (1965)
Paul E. Hipple, B.S., Indiana University, Internal Auditor (1968)
John H. Morrissey, M.S. in Ed., Eastern Illinois University, Budget Officer (1968)
Everett R. Alms, Superintendent of Physical Plant (1965)

DEVELOPMENT AND STAFFING

Vice President

Martin Schaefer, Ph.D., The University of Iowa (1958)

Wayne S. Owens, Ed.D., Indiana University, Administrative Associate (1969)
Robert H. Weidhuner, B.S., Southern Illinois University, Assistant, Administrative
Studies (1966)

COMPUTER SERVICES

Roland D. Spaniol, Ph.D., The University of Iowa, Director (1960)

UNIVERSITY RELATIONS AND SPECIAL SERVICES

UNIVERSITY RELATIONS AND ALUMNI SERVICES

Kenneth E. Hesler, M.Ed., University of Illinois, Director (1951)

Harry Read, B.S. in Ed., Eastern Illinois University, Director, Information and Publications (1964)

Dwight Connelly, M.S., Ohio University, Assistant (1968)

Terrence J. McCullough, B.S., Marquette University, Assistant (1969)

INSTRUCTIONAL STAFF

* Denotes department head.

** Denotes acting department head.

Dewey F. Abell, M.L.S., University of California, Assistant Professor, Library. (1969)

David C. Ahlstrom, Ph.D., Eastman School of Music, Associate Professor, Music Theory, History and Literature. (1967)

Patsy R. Alexander, Ed.D., Oklahoma State University, Associate Professor, Home Economics. (1969)

Dewey H. Amos, Ph.D., University of Illinois, Professor, Geography and Geology. (1965) (On sabbatical leave, winter and spring quarters, 1970-71)

Eulalee L. Anderson, M.S. in Ed., Eastern Illinois University, Instructor, Library (Part-time). (1967)

Kenneth E. Anderson, M.A., University of Florida, Instructor, English. (1970)

Mary L. Anderson, Ed.S., George Peabody College for Teachers, Assistant Professor, Elementary and Junior High School Education. (1958)

Leslie T. Andre, D.Pol.S., Franz Josef Royal University, Assistant Professor, Library. (1962)

Richard D. Andrews, Ph.D., University of Illinois, Associate Professor, Zoology. (1966)

Rudolph D. Anfinson, Ph.D., University of Minnesota, Professor, Educational Psychology and Guidance. (1940)

Mary B. Armstrong, M.A., University of Illinois, Instructor, Speech Pathology and Audiology. (1968)

Charles B. Arzeni, Ph.D., University of Michigan, Associate Professor, Botany. (1965)

Joan Arzeni, B.S., University of Michigan, Faculty Assistant, Laboratory School (Part-time). (1970)

Jerry R. Aschermann, M.S., Utah State University, Instructor, Social Science, History and Education (Substitute). (1970)

Mary E. Atchison, B.S. in Ed., Southern Illinois University, Faculty Assistant, Physical Education for Women. (1969)

- Dennis W. Aten, B.S., University of Nebraska, Instructor, Physical Education for Men. (1968)
- D. Ferrel Atkins, Ph.D., University of Kentucky, Professor, Mathematics. (1958)
- Martha N. Atteberry, M.Ed., University of Illinois, Assistant Professor, Laboratory School. (1967)
- Alan R. Aulabaugh, Ph.D., The University of Iowa, Professor, Music Theory, History and Literature*. (1957)
- Joseph T. Babicki, A.M.L.S., University of Michigan, Assistant Professor, Library. (1969)
- Jumuna Bai, Ph.D., Wayne State University, Assistant Professor, Sociology-Anthropology. (1967)
- C. Ian Bailey, M.A., University of Northern Colorado, Instructor, Physical Education for Men. (1968)
- Zeno E. Bailey, Ph.D., The Ohio State University, Professor, Botany. (1969)
- Weldon N. Baker, Ph.D., Columbia University, Professor, Chemistry. (1958)
- Harold E. Balbach, Ph.D., University of Illinois, Assistant Professor, Botany. (1966)
- Margaret K. Balbach, Ph.D., University of Illinois, Associate Professor, Botany. (1968)
- Wesley E. Ballsrud, M.A., The University of Iowa, Assistant Professor, Accounting.* (1964)
- Robert Barford, M.A., Marquette University, Assistant Professor, Philosophy. (1968)
- Roger J. Barry, M.S.Ed., Eastern Illinois University, Assistant Professor, Geography and Geology. (On leave, 1970-71) (1965)
- Anita M. Barta, Northeast Missouri State College, Faculty Assistant, Physical Education for Women. (1970)
- Lawrence W. Bates, M.S., Brigham Young University, Assistant Professor, Economics. (1970)
- Craig R. Baumrucker, B.S. in Ed., Eastern Illinois University, Faculty Assistant, Botany. (Part-time) (1969)
- Walter E. Beck, Ph.D., University of Illinois, Assistant Professor, Mathematics. (Substitute) (1970)
- Steven A. Becker, Ph.D., The University of Iowa, Assistant Professor, Botany. (1968)
- M. Jeanine Bennett, M.S., University of Washington, Instructor, Physical Education for Women. (1969)
- Charles H. Bertness, Ph.D., University of Illinois, Assistant Professor, Mathematics. (Substitute) (1970)
- Randall H. Best, Ph.D., Oklahoma State University, Assistant Professor, Psychology. (1968)
- Mary A. Bialek, M.Ed., Pennsylvania State University, Assistant Professor, Music Education. (1969)
- Clyde W. Biggers, M.A., University of North Carolina, Instructor, Physical Education for Men. (1965)
- Cyrus E. Blair, M.Ed., University of Oregon, Assistant Professor, Elementary and Junior High School Education. (1970)
- Anthony K. Blostic, M.A., Lehigh University, Instructor, English. (1970)
- Paul G. Bodine, M.A., Washington University, Assistant Professor, Art. (1966)
- Virginia Bodine, M.A., University of Illinois, Instructor, Art. (Substitute, fall quarter) (1967)
- Daniel J. Bolin, M.S., University of Illinois, Instructor, Health Education. (Substitute) (1970)
- Robert O. Bollinger, M.S., Wayne State University, Assistant Professor, Zoology. (1969)
- Mark R. Bomball, M.S., Illinois State University, Instructor, Management. (1969)
- Fred J. Bouknight, Ed.D., Columbia University, Professor, Music Education. (1959)

- Robert E. Bowman, D.M.A., University of Southern California, Assistant Professor, Keyboard. (1969)
- Earl W. Boyd, Ph.D., The University of Iowa, Professor, Instrumental Music.* (1947)
- John L. Braun, Ph.D., The University of Iowa, Assistant Professor, Health Education. (1969)
- Karen J. Braun, M.F.A., Temple University, Instructor, Art. (1968)
- Suzan G. Braun, M.F.A., Southern Illinois University, Instructor, Art. (1970)
- Peggy L. Brayfield, M.A., Southern Illinois University, Assistant Professor, English. (Substitute) (1970)
- Marvin L. Breig, Ph.D., University of Oklahoma, Associate Professor, Physics. (1963)
- James M. Brinkman, Ed.D., University of Illinois, Associate Professor, Music Education. (1970)
- Lois M. Bronnert, M.S., Indiana State University, Instructor, Speech Pathology and Audiology and Education. (1968)
- Robert E. Brown, M.A., Niagara University, Assistant Professor, English. (1969)
- Rose Ann Bryce, D.Ed., University of Northern Colorado, Associate Professor, Business Education and Secretarial Studies. (1969)
- Ewen L. Bryden, Ph.D., The Ohio State University, Assistant Professor, Physical Education for Men. (1969)
- William F. Buckellew, Ed.D., University of Arkansas, Associate Professor, Physical Education for Men.* (1962)
- Rodney Buffington, M.S. in Ed., Eastern Illinois University, Instructor, Art and Education. (1969)
- Jane E. Buscher, B.S. in Ed., Eastern Illinois University, Faculty Assistant, Home Economics. (Part-time) (1970)
- William A. Butler, Ph.D., University of Illinois, Professor, Physics.* (1970)
- Irma N. Butner, Ph.D., The University of Iowa, Visiting Lecturer, Sociology-Anthropology. (1970)
- Thomas L. Calvin, B.S., Eastern Illinois University, Faculty Assistant, Speech. (Part-time) (1970)
- Betty J. Campbell, M.S. in Ed., Eastern Illinois University, Instructor, Business and Education. (1969)
- Ruth B. Campbell, M.A., University of Southern Mississippi, Instructor, English. (Part-time, winter quarter, 1970-71) (1970)
- S. Clyde Cappon, D.M.A., Boston University, Associate Professor, Laboratory School. (1968)
- Eugene R. Carey, Ph.D., The University of Iowa, Associate Professor, Management. (1968)
- Joseph E. Carey, Ed.D., Indiana University, Associate Professor, Elementary and Junior High School Education. (1958)
- Robert A. Carey, P.E.D., Indiana University, Professor, Physical Education for Men. (1953)
- Gerald F. Carr, Ph.D., University of Wisconsin, Associate Professor, Foreign Languages. (1968)
- William B. Cash, M.A., Kent State University, Assistant Professor, Speech. (1964)
- Gloria Ceide-Echevarria, Ph.D., University of Illinois, Associate Professor, Foreign Languages. (1965)
- Dayton K. Chase, D.Ed., University of North Dakota, Associate Professor, Business Education and Secretarial Studies. (1968)
- Carrie C. Chen, M.L.S., University of Pittsburgh, Instructor, Library. (1968)
- Robert P. Chen, M.L.S., University of Pittsburgh, Assistant Professor, Library. (1968)
- Yung Ping Chen, Ph.D., University of Maryland, Professor, Political Science. (1966)
- Roger C. Claar, M.S. in Ed., Eastern Illinois University, Instructor, Business and Education. (1969)

- William M. Cloud, Ph.D., University of Wisconsin, Professor, Physics. (1962)
- H. Logan Cobb, Ph.D., University of Missouri, Professor, Foreign Languages. (1963)
- H. Louanne Cobb, M.S., East Texas State University, Instructor, Physical Education for Women. (1969)
- Elvis R. Coble, M.Mus.Ed., University of Colorado, Instructor, Laboratory School. (1968)
- Harold G. Coe, Ph.D., Purdue University, Associate Professor, Psychology.* (1965)
- Edward P. Colbert, Ph.D., Catholic University of America, Associate Professor, History. (1968)
- George M. Colby, M.A., University of Chicago, Assistant Professor, English. (1962)
- Wayne D. Coleman, D.Ed., University of Northern Colorado, Professor, Industrial Technology.* (1957)
- Lloyd R. Collins, Ph.D., University of Arizona, Associate Professor, Sociology-Anthropology. (1969)
- Joseph T. Connelly, Ed.D., University of Illinois, Associate Professor, Political Science.* (1958)
- Michael J. Conroy, B.S. in Ed., Delaware State College, Faculty Assistant, Laboratory School. (1970)
- James R. Cook, M.S., Southern Illinois University, Assistant Professor, Health Education. (Substitute) (1970)
- Lewis H. Coon, Ed.D., Oklahoma State University, Professor, Mathematics. (1965)
- Alice M. Cooper, M.S., University of Illinois, Assistant Professor, Library. (1968)
- George K. Cooper, Ph.D., University of Michigan, Professor, Business Education and Secretarial Studies.* (1962)
- Patricia Corbin, B.S., Southern Illinois University, Faculty Assistant, Laboratory School. (Part-time) (1970)
- Edward M. Corley, Ph.D., Oklahoma State University, Associate Professor, Economics.* (1967)
- Calvin Countryman, D.Ed., Pennsylvania State University, Professor, Art. (1945)
- Delmar Crabill, M.S., Purdue University, Assistant Professor, Mathematics. (1963)
- Linda Crackel, B.S. in Ed., Eastern Illinois University, Faculty Assistant, Mathematics. (Part-time, winter and spring quarters) (1970)
- John M. Craft, B.S. in Ed., Eastern Illinois University, Faculty Assistant, Physical Education for Men. (1970)
- Francis H. Craig, M.S. in Ed., Southern Illinois University, Assistant Professor, Laboratory School. (1957)
- William J. Crane, Ph.D., Yale University, Professor, Educational Psychology and Guidance. (1961)
- Kathleen Cravatta, B.S. in Ed., Northern Illinois University, Faculty Assistant, Laboratory School. (Part-time) (1970)
- Nancy J. Crewell, B.S. in Ed., Eastern Illinois University, Faculty Assistant, Mathematics. (Part-time) (1970)
- Laurence E. Crofutt, M.A., Indiana University, Assistant Professor, Botany. (1967)
- Joyce L. Crouse, Ph.D., Southern Illinois University, Associate Professor, Home Economics Education.* (1968)
- Richard L. Crouse, M.A., University of Wisconsin, Assistant Professor, Foreign Languages. (1966)
- William H. Culp, B.S. in Ed., Eastern Illinois University, Faculty Assistant, Life Science. (Part-time) (1969)
- George L. Cunningham, Ph.D., University of California, Berkeley, Professor, Chemistry. (1961)
- Michael Cunningham, B.S., Eastern Illinois University, Faculty Assistant, Accounting. (On leave winter and spring quarters) (1970)
- Carleton E. Curran, Ph.D., University of Wisconsin, Associate Professor, History. (1966)

Melitta Cutright, A.B., University of Illinois, Assistant Professor, History. (Fall quarter) (1970)

Roger L. Darding, Ph.D., University of Illinois, Assistant Professor, Botany. (1970)

Rex V. Darling, Dir. P.E., Indiana University, Assistant Professor, Physical Education for Men. (On sabbatical leave, fall and winter quarters) (1945)

M. Marise Daves, Ed.D., New York University, Professor, Physical Education for Women. (1955)

Joyce E. David, M.S. in Ed., Eastern Illinois University, Instructor, Physical Education for Women. (1968)

Alvie D. Davis, Ph.D., University of California, Los Angeles, Assistant Professor, Physics. (Substitute) (1970)

Jack W. Dean, M.S. in Ed., Northern Illinois University, Assistant Professor, Physical Education for Men. (1969)

Vincent R. DeCarlo, M.S., University of Tennessee, Assistant Professor, Management. (1970)

Ann B. Decker, B.S. in Ed., Eastern Illinois University, Faculty Assistant, Life Science. (Part-time) (1969)

Dora D. DePriest, M.A., George Peabody College for Teachers, Assistant Professor, Home Economics. (Substitute) (1970)

Garret W. DeRuiter, M.F.A., Southern Illinois University, Assistant Professor, Art. (1965)

James B. Derwort, B.S. in Ed., Eastern Illinois University, Faculty Assistant, Mathematics. (Part-time) (1970)

Helen L. Devinney, A.M., Columbia University, Assistant Professor, Home Economics. (1943)

Suhrit K. Dey, Ph.D., Mississippi State University, Assistant Professor, Mathematics. (1970)

Ann Dice, B.S. in Ed., Eastern Illinois University, Faculty Assistant, Mathematics. (Part-time, winter and spring quarters) (1969)

Charles H. Dickerson, B.S. in Ed., Southern Illinois University, Faculty Assistant, Physical Education for Men. (1970)

Alphonso J. DiPietro, Ph.D., George Peabody College for Teachers, Professor, Mathematics.* (1959)

Patrick J. Docter, Ph.D., Purdue University, Associate Professor, Zoology. (1969)

Martha J. Doemelt, M.S. in Ed., Eastern Illinois University, Assistant Professor, Laboratory School. (1968)

Ernest E. Dolson, M.S., Indiana State University, Assistant Professor, Mathematics and Education. (1968)

Donald Dolton, M.A., Oklahoma State University, Assistant Professor, English. (1966)

Carol A. Dorris, B.S., University of Georgia, Faculty Assistant, Speech. (Part-time, fall quarter) (1970)

James M. Dorris, M.F.A., University of Georgia, Instructor, Speech. (On leave, 1970-71) (1969)

Earl Doughty, Ph.D., Southern Illinois University, Associate Professor, Elementary and Junior High School Education. (1963)

Sharon Douglas, B.S. in Ed., Eastern Illinois University, Faculty Assistant, Mathematics. (Part-time, fall and winter quarters) (1969)

Ruth L. Dow, M.S., University of Illinois, Instructor, Home Economics. (Part-time) (1969)

Dale D. Downs, Adv. C., University of Illinois, Assistant Professor, Laboratory School. (1963)

Martha I. Drew, M.Ed., University of Illinois, Assistant Professor, Management. (On sabbatical leave, fall quarter, on leave, winter and spring quarters) (1958)

- Richard A. Dulka, B.A., St. Benedict's College (Kansas), Assistant Professor, Foreign Languages. (1968)
- Leonard Durham, Ph.D., University of Illinois, Professor, Zoology. (1955)
- Genevra Dvorak, M.S. in Ed., Eastern Illinois University, Assistant Professor, English. (1964)
- Hannah N. Eads, M.S. in Ed., Eastern Illinois University, Assistant Professor, Laboratory School. (1961)
- K. C. Eapen, Ph.D., University of Colorado, Associate Professor, English. (1965)
- David W. Ebdon, Ph.D., University of Maryland, Assistant Professor, Chemistry. (1968)
- John E. Ebinger, Ph.D., Yale University, Associate Professor, Botany. (1963)
- Donald R. Eddy, M.Ed., University of Southern Mississippi, Instructor, Physical Education for Men. (1968)
- Snowden L. Eisenhour, Ph.D., University of Illinois, Associate Professor, Physics. (1961)
- Gladys W. Ekeberg, Ph.D., University of Wisconsin, Professor, English. (Part-time) (1945)
- E. Duane Elbert, Ph.D., Indiana University, Assistant Professor, History. (1966)
- Carol K. Elder, M.A., University of Pittsburgh, Assistant Professor, English. (1966)
- Betty G. Elliott, M.A., Ball State University, Instructor, Laboratory School. (Substitute) (1969)
- Charles A. Elliott, Ed.D., University of Missouri, Professor, Industrial Arts Education. (1945)
- Thomas L. Elliott, D.Ed., University of Northern Colorado, Associate Professor, Business Education and Secretarial Studies. (1969)
- Jerry W. Ellis, Ph.D., Oklahoma State University, Associate Professor, Chemistry. (1966)
- Walter L. Elmore, M.A., University of Kentucky, Assistant Professor, Physical Education for Men and Education. (1948)
- Carl E. Emmerich, D.Ed., The Pennsylvania State University, Associate Professor, Art. (1962)
- Ruth Erckmann, M.A., University of South Dakota, Assistant Professor, Mathematics. (1963)
- Clifford H. Erwin, D.Ed., Indiana University, Professor, Industrial Arts Education. (1956)
- Karen Estes, B.S. in Ed., Eastern Illinois University, Faculty Assistant, Mathematics. (Part-time) (1970)
- Clifford L. Fagan, Ph.D., The University of Iowa, Professor, Marketing.* (1949)
- Frances D. Falen, M.S. Ed., Kansas State University, Instructor, Laboratory School. (1968)
- Shu Fang, M.S.L.S., University of Kentucky, Instructor, Library. (1970)
- John R. Faust, Ph.D., University of North Carolina, Associate Professor, Political Science. (1966)
- Ray L. Fehrenbacher, J.D., University of Illinois, Visiting Lecturer, Management. (Part-time) (1970)
- Joseph D. Fenn, M.A., Vanderbilt University, Visiting Lecturer, Management. (Part-time) (1970)
- Pattie J. Fenn, M.A., George Peabody College for Teachers, Instructor, Business Education and Secretarial Studies. (1970)
- Isaac Ferguson, M.S., Brigham Young University, Instructor, Health Education. (1969)

- Larry E. Ferguson, M.S. in Ed., Eastern Illinois University, Instructor, Laboratory School. (1969)
- Max B. Ferguson, Ph.D., The University of Iowa, Professor, Zoology. (1950)
- Paul A. Filter, Ed.D., University of Nebraska, Associate Professor, Education. (1970)
- Warren Fish, M.A., University of Illinois, Assistant Professor, Geography and Geology. (Substitute, winter and spring quarters) (1970)
- Janice L. Flake, M.A., University of Illinois, Assistant Professor, Mathematics. (1969)
- Patricia Flaughner, M.S., Southern Illinois University, Instructor, Physical Education for Women. (1969)
- Robert A. Fleck, M.B.A., University of Illinois, Assistant Professor, Management. (1970)
- M. Lorraine Flower, Ph.D., University of Oregon, Associate Professor, Physical Education for Women. (1965)
- Thomas W. Floyd, Ed.D., University of Illinois, Associate Professor, Elementary and Junior High School Education. (1967)
- James F. Fluck, B.A., Macalester College, Faculty Assistant, Theater Arts. (1970)
- C. Dan Foote, Ph.D., University of Illinois, Associate Professor, Chemistry. (1965)
- John P. Ford, Ph.D., The Ohio State University, Associate Professor, Geography and Geology. (1966)
- Melvin O. Foreman, Ph.D., University of Chicago, Professor, Chemistry. (1946)
- Paul Foreman, Ph.D., University of Illinois, Assistant Professor, Zoology. (1966)
- Clifton N. Foster, Ed.D., University of Nebraska, Associate Professor, Education. (On leave 1970-71) (1966)
- Delbert D. Foust, Adv. C., University of Illinois, Assistant Professor, Laboratory School. (1964)
- Arlen L. Fowler, Ph.D., Washington State University, Associate Professor, History. (1969)
- Ewell W. Fowler, Ed.D., University of Missouri, Professor, Industrial Arts Education. (1941)
- Frank A. Fraembs, M.S., University of Illinois, Assistant Professor, Zoology. (1964)
- Jimmie L. Franklin, Ph.D., University of Oklahoma, Associate Professor, History. (On leave, fall quarter) (1970)
- Richard C. Funk, Ph.D., University of Kansas, Assistant Professor, Zoology. (1965)
- E. G. Gabbard, Ph.D., The University of Iowa, Professor, Theater Arts.* (1947)
- Lucina P. Gabbard, M.A., The University of Iowa, Instructor, English. (1968)
- Pauline Galbreath, M.S.L.S., University of Illinois, Instructor, Library. (1967)
- Mark L. Gardner, M.A., Vanderbilt University, Instructor, Economics. (1970)
- Walter C. Garland, Ph.D., The Ohio State University, Professor, Administration and Supervision. (1968)
- Donald P. Garner, Ph.D., Wayne State University, Professor, Speech.* (1963)
- Luther R. Gibson, M.S., Ohio University, Assistant Professor, Physics. (1959)
- James F. Giffin, Ph.D., Northwestern University, Professor, Business. (1947)
- Michael A. Goodrich, Ph.D., Pennsylvania State University, Associate Professor, Zoology. (1964)
- Richard G. Gorno, M.B.A., University of Detroit, Instructor, Marketing. (1970)
- Gerald L. Gossett, M.S., Indiana State University, Instructor, Physical Education for Men. (1969)
- Timothy D. Gover, M.S., University of Illinois, Assistant Professor, Management. (1963)
- Louis M. Grado, Ph.D., The University of Iowa, Professor, Elementary and Junior High School Education. (1955)
- Grant G. Gray, Ph.D., University of South Dakota, Associate Professor, Botany. (1966)
- Carl K. Green, Ed.D., University of Houston, Professor, Educational Psychology and Guidance. (1958)

- Marguerite E. Green, M.P.H., University of Minnesota, Assistant Professor, Health Education. (1958)
- Norma C. Green, M.Ed., University of Southern Mississippi, Instructor, Physical Education for Women. (1966)
- Patricia Green, Dip. in Ed., Cambridge University, Faculty Assistant, Laboratory School. (Part-time) (1969)
- William E. Green, Ph.D., The Ohio State University, Professor, Management.* (1966)
- Johanne F. Grewell, M.S.L.S., University of Illinois, Instructor, Library. (1966)
- Raymond V. Griffin, D.Ed., University of Northern Colorado, Professor, Laboratory School. (1958)
- Jerry Griffith, Ph.D., University of Illinois, Professor, Speech Pathology and Audiology. (1966)
- Waldo Grigoroff, M.S. in Ed., University of Illinois, Assistant Professor, History and Social Sciences and Education. (1961)
- Karl M. Grisso, M.A.L.S., Indiana University, Assistant Professor, Library. (1969)
- Dennis C. Gross, M.S.Ed., Southern Illinois University, Assistant Professor, Accounting. (1966)
- John C. Guckert, Ph.D., The Ohio State University, Assistant Professor, Education. (1968)
- Gary L. Gueldner, M.S.Ed., Eastern Illinois University, Instructor, Accounting. (1967)
- Paul O. Gurholt, M.S., University of Wisconsin, Assistant Professor, Laboratory School. (1955)
- Ken E. Hadwiger, Ph.D., University of Oklahoma, Associate Professor, Speech. (1964)
- Lavern M. Hamand, Ph.D., University of Illinois, Professor, History. (1957)
- Martha T. Hamand, A.B., University of Illinois, Faculty Assistant, English. (1964) (Part-time)
- Julian J. Hamerski, Ph.D., University of the Pacific, Associate Professor, Chemistry. (1963)
- Robert R. Hancock, M.S., Southern Illinois University, Assistant Professor, Mathematics and Education. (On sabbatical leave, fall and winter quarters) (1965)
- Burton E. Hardin, D.M.Ed., University of Oklahoma, Associate Professor, Instrumental Music. (1969)
- O. Clyde Hardman, M.S., University of Utah, Assistant Professor, Accounting. (1970)
- Robert Y. Hare, Ph.D., The University of Iowa, Professor, Music. (1965)
- Stanley G. Harris, B.A., University of Missouri, Assistant Professor, Foreign Languages. (1968)
- Charles R. Harrison, M.A., University of Oklahoma, Assistant Professor, Speech. (1969)
- Norma J. Harrison, B.S., Bethany Nazarene College, Faculty Assistant, Home Economics. (1969)
- Dorothy M. Hart, Ph.D., The University of Iowa, Professor, Physical Education for Women. (1947)
- Betty R. Hartbank, M.S.L.S., University of Illinois, Assistant Professor, Library. (1956)
- Fred Hattabaugh, M.S. in Ed., Eastern Illinois University, Assistant Professor, Laboratory School. (On sabbatical leave, 1970-71) (1965)
- Evelyn H. Haight, Ph.D., University of Illinois, Assistant Professor, English and Education. (1970)
- Helen L. Haughton, M.S., University of Illinois, Assistant Professor, Home Economics. (On leave, 1970-71) (1956)
- Edith M. Hedges, M.S., University of Wisconsin, Instructor, Home Economics. (1966)
- Frank H. Hedges, M.S., University of Illinois, Instructor, Zoology. (1965)
- Carol M. Helwig, Ed.D., University of Illinois, Assistant Professor, Elementary and Junior High School Education. (1969)
- Giles L. Henderson, M.S., Montana State University, Instructor, Chemistry. (1966)

- Robert E. Hennings, Ph.D., University of California, Berkeley, Associate Professor, History. (1962)
- James A. Herauf, M.S., Southern Illinois University, Assistant Professor, Health Education. (On sabbatical leave, 1970-71) (1965)
- Billy J. Heyduck, M.F.A., University of Illinois, Assistant Professor, Art. (1966)
- Franklin L. Hillenberg, M.A.T., Indiana University, Assistant Professor, Geography and Geology. (Substitute) (1970)
- Albert R. Hinson, M.F.A., Miami University, Instructor, Art. (1965) (On sabbatical leave, 1970-71)
- Martha Hinson, B.F.A., Miami University, Faculty Assistant, Art. (1965)
- Dan M. Hockman, M.S. in Ed., Eastern Illinois University, Instructor, History and Social Sciences and Education. (On sabbatical leave, 1970-71) (1965)
- Mildred S. Hofacker, M.A., Western Reserve University, Instructor, Speech. (1956)
- Arnold J. Hoffman, M.S., University of Illinois, Assistant Professor, Chemistry. (1945)
- Arthur C. Hoffman, M.B.A., University of Wisconsin, Assistant Professor, Accounting. (1966)
- Bertrand P. Holley, M.A., Northwestern University, Assistant Professor, Management. (1946)
- Charles Hollister, Ph.D., University of Pennsylvania, Professor, Political Science. (1967)
- Dennis K. Hon, B.S. in Ed., Eastern Illinois University, Faculty Assistant, Mathematics. (Part-time) (1970)
- Janet M. Hooks, Ph.D., University of Illinois, Associate Professor, Economics. (On sabbatical leave, 1970-71) (1963)
- Richard L. Hooser, M.S., University of Illinois, Assistant Professor, Health Education. (On sabbatical leave, 1970-71) (1965)
- John J. Hopkins, Ph.D., Pennsylvania State University, Professor, Speech. (1956)
- Stephan M. Horak, Ph.D., University of Erlangen, Associate Professor, History. (1965)
- Kathleen M. Howell, Ph.D., The Ohio State University, Associate Professor, Home Economics and Education. (1967)
- Nai-chao Hsu, Ph.D., Washington University, Associate Professor, Mathematics. (1966)
- Glen E. Hubele, Ph.D., University of Illinois, Assistant Professor, Educational Psychology and Guidance. (1968)
- Daniel E. Hughes, M.A., Boston College, Assistant Professor, English and Education. (1967)
- Richard L. Hummel, M.A., Indiana University, Assistant Professor, Sociology-Anthropology. (1969)
- Lawrence B. Hunt, Ph.D., University of Wisconsin, Assistant Professor, Zoology. (1967)
- Robert W. Hussey, D.Ed., University of Northern Colorado, Associate Professor, Physical Education for Men. (1958)
- Frank E. Hustmyer, Ph.D., University of Cincinnati, Associate Professor, Psychology. (1969)
- Marjorie T. Hutton, M.S. in Ed., Eastern Illinois University, Instructor, Speech. (Fall and winter quarters) (1964)
- John P. Huxhold, M.A., University of Illinois, Instructor, English. (1970)
- Virginia W. Hyett, A.M., University of Missouri, Assistant Professor, Art. (1944)
- Bill V. Isom, M.S. in Ed., Southern Illinois University, Assistant Professor, Library. (1964)
- Ann E. Jackson, D.Ed., Arizona State University, Professor, Laboratory School. (1958)
- Gordon L. Jackson, M.A., Eastern Michigan University, Instructor, English. (1970)
- William S. James, Ph.D., University of Tennessee, Assistant Professor, Zoology. (1970)

- Abdul J. Jawad, Ph.D., University of Chicago, Associate Professor, Sociology-Anthropology. (1968)
- Elizabeth S. Jennings, B.S. in Ed., Eastern Illinois University, Faculty Assistant, Zoology. (Part-time) (1970)
- George A. Jocums, Ph.D., University of Michigan, Assistant Professor, Foreign Languages and Education. (1969)
- Carlyle W. Johnson, M.S., University of Illinois, Instructor, Laboratory School. (1970)
- Charles H. Johnson, J.D., University of Wisconsin, Associate Professor, Management. (1967)
- Dorothe L. Johnson, Adv. C., University of Illinois, Assistant Professor, Physical Education for Women. (1968)
- June Johnson, D.M.A., University of Illinois, Associate Professor, Vocal Music. (1960)
- Austin Jones, B.S., Southern Illinois University, Faculty Assistant, Accounting. (1969)
- George H. Jones, D. Phil., Oxford University, Associate Professor, History. (1966)
- Robert W. Jordan, Ph.D., Washington University, Assistant Professor, Chemistry. (1966)
- Sylvia Y. Kaplan, M.A.L.S., Rosary College, Assistant Professor, Library Science. (1970)
- Judith Karns, B.A., University of Florida, Faculty Assistant, English. (1970)
- Robert H. Karraker, Ph.D., Iowa State University, Associate Professor, Chemistry. (1967)
- Tom Katsimpalis, Ed.D., University of Northern Colorado, Associate Professor, Physical Education for Men. (1959)
- Richard L. Keiter, Ph.D., University of Maryland, Assistant Professor, Chemistry. (1969)
- Judith S. Kelius, M.A., University of Delaware, Instructor, English. (1970)
- John J. Kelleher, Ph.D., University of Pittsburgh, Associate Professor, English. (1964)
- Charles Keller, M.A., University of California, Assistant Professor, Sociology-Anthropology. (1970)
- Leo L. Kelly, Ph.D., Purdue University, Associate Professor, Foreign Languages. (1968)
- Gary W. Kent, B.S. in Ed., Eastern Illinois University, Faculty Assistant, Speech. (Part-time) (1970)
- Nancy O. Keppler, M.S., University of Illinois, Instructor, Home Economics. (Part-time) (1968)
- William J. Keppler, Ph.D., University of Illinois, Associate Professor, Zoology. (1965)
- Rhoderick E. Key, M.Mus.Ed., Southern Illinois University, Assistant Professor, Music
- Maria R. Kilkenny, M.A., St. John's University, New York, Faculty Assistant, Botany. (Part-time) (1970)
- Ha Poong Kim, Ph.D., Boston University, Assistant Professor, Philosophy. (1967)
- Paul F. Kirby, Ph.D., University of Pittsburgh, Professor, Foreign Languages. (1964)
- Judd Kline, Ph.D., University of Minnesota, Professor, English. (1948)
- Verne B. Kniskern, Ph.D., University of Michigan, Professor, Zoology. (1950)
- Cary I. Knoop, M.F.A., University of Illinois, Assistant Professor, Art. (1953)
- Raymond L. Koch, Ph.D., University of Minnesota, Assistant Professor, History. (1966)
- Daniel J. Koenig, M.S., Florida State University, Assistant Professor, Sociology-Anthropology. (On leave, 1970-71) (1968)
- Karl-Ludwig Konrad, B.A., Michigan State University, Faculty Assistant, Foreign Languages. (1970)
- Lloyd L. Koontz, M.A., University of Arkansas, Assistant Professor, Mathematics. (1963)
- Fethi M. Kopuz, (Bachelor's), Faculty of Letters, Istanbul, Turkey, Assistant Professor, Instrumental Music. (1967)

- Eugene B. Krehbiel, Ph.D., Kansas State University, Associate Professor, Zoology (1963)
- James W. Krehbiel, Ph.D., Indiana University, Associate Professor, Music Theory, History and Literature. (1965)
- Claire E. Krukenberg, Ph.D., University of Illinois, Assistant Professor, Mathematics. (1968)
- June M. Krutza, Ph.D., The Ohio State University, Associate Professor, Art. (1952)
- Carol C. Ku, M.L.S., University of Pittsburgh, Instructor, Library. (1967)
- Oren F. Lackey, M.S., University of Illinois, Assistant Professor, Botany. (1963)
- Richard R. LaCroix, Ph.D., University of Minnesota, Assistant Professor, Philosophy. (1968)
- E. Jane Lahey, M.S.Ed., University of Illinois, Assistant Professor, Management. (1957)
- Thomas H. Lahey, Ed.D., University of Virginia, Associate Professor, Laboratory School. (1966)
- Jon M. Laible, Ph.D., University of Illinois, Associate Professor, Mathematics. (1964)
- Ming H. Land, Ed.D., Utah State University, Assistant Professor, Industrial Arts Education. (Substitute) (1970)
- Bert A. Landes, M.A.T., University of Northern Colorado, Instructor, Botany and Zoology and Education. (1967)
- M. Marjorie Lanman, M.Ed., University of Illinois, Instructor, Business and Education. (1961)
- Harry R. Larson, Ed.D., University of Northern Colorado, Associate Professor, Education. (1960)
- Herbert Lasky, M.A., New York University, Assistant Professor, History. (1966)
- Abdul Lateef, Ph.D., Southern Illinois University, Assistant Professor, Political Science. (1968)
- Dorothy Lawson, B.S. in Ed., Clarion State College, Faculty Assistant, Laboratory School. (Part-time) (1969)
- Richard W. Lawson, M.S.L.S., Western Reserve University, Assistant Professor, Library Science. (1964)
- Walter S. Lazenby, Jr., Ph.D., Indiana University, Professor, English. (1969)
- Ronald M. Leathers, M.S., Indiana State University, Assistant Professor, English and Education. (1965)
- John W. LeDuc, M.S., University of Utah, Assistant Professor, Mathematics. (On leave, 1970-71) (1965)
- Victoria A. LeFevers, M.A., Texas Woman's University, Assistant Professor, Physical Education for Women. (1970)
- Peter R. Leigh, Ph.D., University of Southern California, Assistant Professor, Political Science. (On leave, 1970-71) (1969)
- Roland Leipholz, Ed.D., University of Michigan, Associate Professor, Art. (1955)
- Patrick M. Lenihan, Ph.D., University of Wisconsin, Associate Professor, Economics. (1967)
- Michael B. Leyden, D.Ed., University of Florida, Assistant Professor, Elementary and Junior High School Education. (1970)
- Maurice C. Libbey, M.S., Columbia University, Instructor, Library. (1967)
- John W. Linn, M.A., San Diego State College, Instructor, Art. (1967)
- Inez B. Livingston, Ph.D., The Ohio State University, Associate Professor, Psychology. (1968)
- Alfred Loeffler, Ph.D., University of Minnesota, Associate Professor, Music Theory, History, and Literature. (1969)
- Jerome B. Long, Ph.D., Fordham University, Associate Professor, Philosophy. (1966)
- Arthur J. Looby, Ed.D., University of Missouri, Professor, Psychology. (1959)

- Walter S. Lowell, Ed.D., Michigan State University, Professor, Physical Education for Men. (1961)
- Kathlene Lowry, M.S. in Ed., Eastern Illinois University, Instructor, Elementary and Junior High School Education. (1970)
- Fred W. MacLaren, Ph.D., University of Oklahoma, Associate Professor, Elementary and Junior High School Education. (1965)
- John N. Maharg, D.Ed., University of Illinois, Professor, Vocal Music.* (1958)
- Harold A. Malehorn, Ph.D., Northwestern University, Associate Professor, Elementary and Junior High School Education. (1970)
- W. Evan Mannakee, M.A., Northwestern University, Instructor, Theater Arts. (1969)
- Elwyn L. Martin, Ph.D., University of Michigan, Associate Professor, Geography and Geology. (1956)
- Joseph M. Martin, M.M.Ed., East Carolina University, Assistant Professor, Instrumental Music. (1969)
- Jacinto C. Martinez, M.S., East Texas State University, Instructor, Zoology. (1966)
- John W. Masley, Ed.D., Pennsylvania State University, Professor, Physical Education for Men. (1952)
- Merrilie Mather, Ph.D., Boston University, Professor, English. (1951)
- Gerhard C. Matzner, Ph.D., Cornell University, Professor, Administration and Supervision (1955)
- David J. Maurer, Ph.D., The Ohio State University, Associate Professor, History. (1962)
- Paul W. Mausel, Ph.D., University of North Carolina, Associate Professor, Geography and Geology. (1965)
- Jaime A. Maya, Ph.D., University of Arizona, Assistant Professor, Zoology. (1966)
- William J. McCabe, M.A., The University of Iowa, Assistant Professor, Physical Education for Men. (1962)
- Beryl F. McClerren, Ph.D., Southern Illinois University, Associate Professor, Speech. (1964)
- Frances W. McColl, M.A., Columbia University, Assistant Professor, English. (1957)
- Walter H. McDonald, Ph.D., University of Illinois, Professor, Geography and Geology and Education. (1958)
- John F. McElligott, M.A., New York University, Assistant Professor, History. (1967)
- Harland G. McFarland, M.S., Southern Illinois University, Assistant Professor, Physical Education for Men and Education. (1970)
- William P. McGown, M.S., University of Southern Mississippi, Assistant Professor, Psychology. (1970)
- Donald L. McKee, M.A.T., University of Illinois, Assistant Professor, Laboratory School. (1961)
- F. Raymond McKenna, Ed.D., Harvard University, Professor, Education. (1953)
- Donald E. McMullen, M.A., Northern Illinois University, Assistant Professor, Marketing. (1970)
- Val G. McPeak, M.S. in Ed., Eastern Illinois University, Instructor, Physical Education for Men. (1970)
- Jerry W. McRoberts, M.A., University of Illinois, Assistant Professor, Art. (1963)
- Robert E. Meier, M.S., Southern Illinois University, Assistant Professor, Management. (1964)
- Evelyn Melloh, Ph.D., Southern Illinois University, Professor, Home Economics. (1970)
- Floyd E. Merritt, M.A., University of Kansas, Assistant Professor, Speech. (1970)
- John E. Mertes, D.B.A., Indiana University, Professor, Marketing and Coordinator of Graduate Business Studies. (1969)
- W. Kay Metcalf, M.S. in Ed., Eastern Illinois University, Instructor, Physical Education for Women. (1965)

- Douglas K. Meyer, Ph.D., Michigan State University, Assistant Professor, Geography and Geology. (1970)
- Roy A. Meyerholtz, D.Ed., University of Northern Colorado, Associate Professor, Mathematics. (1961)
- Elizabeth Michael, Ph.D., Universite Laval, Professor, Foreign Languages. (1930)
- Martin M. Miess, Ph.D., Universitaet Innsbruck, Professor, Foreign Languages.* (1956)
- Beverly B. Miller, M.S.L.S., University of Illinois, Assistant Professor, Library Science. (1967)
- Charles E. Miller, Jr., B.S. in Ed., Eastern Illinois University, Faculty Assistant, Physics. (1967)
- William D. Miller, Ph.D., The University of Iowa, Assistant Professor, English. (1963)
- Lynn E. Miner, Ph.D., University of Illinois, Associate Professor, Speech Pathology and Audiology. (1963)
- William D. Miner, Ph.D., Indiana University, Professor, History. (1950)
- William J. Mitchell, M.A., The University of Iowa, Assistant Professor, Art. (1970)
- Al R. Moldroski, M.A., Michigan State University, Assistant Professor, Art. (1963)
- Donald L. Moler, Ph.D., University of Kansas, Professor, Educational Psychology and Guidance.* (1951)
- Edward O. Moll, Ph.D., University of Utah, Assistant Professor, Zoology. (1968)
- Betty J. Moore, M.A., University of Nevada, Assistant Professor, Laboratory School. (1968)
- John T. Moore, D.B.A., Indiana University, Professor, Marketing. (1969)
- Neil E. Moore, Sp. in Ed., University of Northern Colorado, Assistant Professor, Physical Education for Men. (1970)
- Shirley B. Moore, D.Ed., University of Northern Colorado, Assistant Professor, Psychology. (1970)
- Martha Morgan, B.S. in Ed., Eastern Illinois University, Faculty Assistant, Mathematics. (Part-time) (1970)
- Mildred D. Morgan, M.A., Columbia University, Assistant Professor, Laboratory School. (1946)
- Herbert O. Morice, Ed.D., University of Houston, Associate Professor, Psychology. (1967)
- Donald B. Morlan, Ph.D., Purdue University, Assistant Professor, Speech and Theater Arts and Education. (1969)
- James D. Motley, B.S. in Ed., Eastern Illinois University, Faculty Assistant, Accounting. (Part-time) (1970)
- Magda Moustafa, M.A., Southern Illinois University, Instructor, English. (1970)
- John E. P. Mullally, M.A., Middlebury College, Assistant Professor, Foreign Languages. (1968)
- Byron E. Munson, Ph.D., University of Illinois, Professor, Sociology-Anthropology.* (1967)
- Ahmad Murad, Ph.D., University of Wisconsin, Professor, Economics. (On sabbatical leave, 1970-71) (1963)
- David H. Murphy, M.S., Indiana State University, Instructor, Botany and Zoology and Education. (1968)
- Louise Murray, Ph.D., Northwestern University, Professor, English. (1951)
- Jack Murry, Ed.M., University of Illinois, Assistant Professor, Business Education and Secretarial Studies. (1965)
- Jeanette B. Murry, M.S. in Ed., Eastern Illinois University, Instructor, Business and Education. (1969)
- Jagdish L. Nanda, Ph.D., Indiana University, Associate Professor, Mathematics. (On sabbatical leave, fall and winter quarters, 1970-71) (1964)
- Sat P. Narang, M.S.L.S., University of Wisconsin, Instructor, Library. (1969)

- Shirley W. Neal, M.A., University of Illinois, Instructor, English. (1968)
- Allen R. Neff, M.A., The Ohio State University, Assistant Professor, English. (1967)
- Howard F. Nelms, M.Ed., University of Illinois, Assistant Professor, Industrial Arts and Education. (1970)
- James E. Nicely, M.A., Indiana University, Instructor, Speech Pathology and Audiology. (1970)
- Lawrence R. Nichols, Ph.D., Duke University, Associate Professor, History. (1962)
- Thomas H. Nickels, M.S., Purdue University, Assistant Professor, Economics. (1968)
- Henry C. Nilsen, M.S., University of Illinois, Instructor, Zoology. (1967)
- Janet L. Norberg, Ph.D., The University of Iowa, Professor, Speech. (On sabbatical leave, winter and spring quarters, 1970-71) (1963)
- Harold D. Nordin, M.A., Northern Illinois University, Assistant Professor, Economics. (1967)
- John T. North, Ed.D., Indiana University, Assistant Professor, Education. (Substitute) (1970)
- Maynard O'Brien, Ed.D., University of Illinois, Professor, Physical Education for Men. (1946)
- Marilyn S. Oglesby, M.S. in Ed., Eastern Illinois University, Instructor, Management. (Substitute) (1969)
- Kevin J. O'Keefe, Ph.D., New York University, Assistant Professor, History. (1970)
- Geraldina Ortiz-Muniz, Ph.D., Florida State University, Professor, Foreign Languages. (1962)
- Alice L. Osborne, B.S., University of Illinois, Faculty Assistant, Laboratory School. (Part-time) (1970)
- Maria M. Ovcharenko, Ph.D., Charles University, Professor, Foreign Languages. (1964)
- Paul D. Overton, Ed.D., University of Northern Colorado, Associate Professor, Educational Psychology and Guidance. (1962)
- Barbara L. Owens, M.S. in Ed., Eastern Illinois University, Assistant Professor, Home Economics and Education. (Part-time) (1969)
- John W. Oxley, M.B.A., Eastern Illinois University, Instructor, Management. (1970)
- S. Jayne Ozier, B.S. in Ed., Eastern Illinois University, Faculty Assistant, Home Economics. (Part-time) (1970)
- Ronald Paap, A.M., University of Northern Colorado, Assistant Professor, Physical Education for Men. (1963)
- Raymond F. Padovan, M.S., Southern Illinois University, Assistant Professor, Physical Education for Men. (1966)
- Francis W. Palmer, Ph.D., The University of Iowa, Professor, English. (1945)
- James E. Palmer, Ph.D., University of Missouri, Associate Professor, Geography and Geology. (1969)
- Donald E. Parente, M.S., University of Illinois, Assistant Professor, Marketing. (1970)
- James Patterson, Jr., M.A., California State College, Assistant Professor, Art. (1969)
- Sharon A. Paulson, M.S., Illinois State University, Instructor, Laboratory School. (1970)
- J. Robert Pence, Ed.D., University of Illinois, Professor, Music Education.* (1951)
- Stuart L. Penn, Ph.D., Yale University, Professor, Philosophy.* (1960)
- Harry E. Peterka, Ph.D., University of Kansas, Professor, Zoology. (1947)
- John C. Peterson, Ph.D., The Ohio State University, Assistant Professor, Mathematics and Education. (1969)
- LeRoy Peterson, Ph.D., The University of Iowa, Professor, Education. (1967)
- Marla Peterson, Ph.D., The Ohio State University, Assistant Professor, Laboratory School. (1970)

- Nicholas C. Petridis, Ph.D., University of Chicago, Associate Professor, Mathematics. (1966)
- Charles E. Pettypool, M.A., The Ohio State University, Assistant Professor, Mathematics. (1957)
- Philip E. Phillippe, B.S. in Ed., Eastern Illinois University, Faculty Assistant, Botany. (Part-time) (1970)
- Gerald Pierson, M.S. in Ed., Eastern Illinois University, Assistant Professor, History and Social Sciences and Education. (1963)
- Harold O. Pinther, M.S., University of Wisconsin, Assistant Professor, Physical Education for Men. (1954)
- Randy Pippen, B.S., Eastern Illinois University, Faculty Assistant, Mathematics. (1970)
- Raymond A. Plath, Ph.D., University of Wisconsin, Professor, Economics. (1946)
- Frances M. Pollard, Ph.D., Western Reserve University, Professor, Library Science.* (1963)
- Roger T. Poole, B.S., Eastern Illinois University, Faculty Assistant, Botany. (Part-time) (1970)
- Sheryl S. Popkin, M.A., Columbia University, Instructor, Physical Education for Women. (1969)
- Pamela K. Potts, B.S., Eastern Illinois University, Faculty Assistant, Zoology. (Part-time) (1970)
- Dalias A. Price, Ph.D., University of Wisconsin, Professor, Geography and Geology.* (1958)
- Van D. Psimitis, M.S., Southern Illinois University, Instructor, Management. (1964)
- Ruth S. Queary, M.S. in Ed., Eastern Illinois University, Assistant Professor, Mathematics. (1961)
- James R. Quivey, Ph.D., Northern Illinois University, Assistant Professor, English. (1969)
- Anola E. Radtke, M.M., Indiana University, Assistant Professor, Laboratory School. (1964)
- Mushfequr Rahman, Ph.D., McGill University, Associate Professor, Mathematics. (1967)
- Jack C. Rang, M.A., Aquinas College, Assistant Professor, Theater Arts. (1969)
- Evelyn N. Ransom, M.A., New Mexico Highlands University, Assistant Professor, English. (1970)
- Paladugu V. Rao, M.S.L.S., University of Illinois, Assistant Professor, Library. (1968)
- James E. Rauch, B.S. in Ed., Eastern Illinois University, Faculty Assistant, Laboratory School. (1969)
- Hugh C. Rawls, Ph.D., University of Alabama, Professor, Zoology. (1956)
- Mary Jo Read, Ph.D., University of Wisconsin, Professor, Geography and Geology. (On sabbatical leave, winter and spring quarters, 1970-71) (1965)
- John J. Rearden, Ph.D., Oklahoma State University, Associate Professor, Psychology. (1968)
- Phyllis L. Rearden, M.S.L.S., University of Illinois, Instructor, Library. (1970)
- Rosemary Reece, M.S. in Ed., University of Missouri, Assistant Professor, Laboratory School. (1968)
- Sharon K. Reed, B.S. in Ed., Eastern Illinois University, Faculty Assistant, Botany. (Part-time) (1969)
- James J. Reynolds, D.Ed., Indiana University, Assistant Professor, Education. (1969)
- Paul J. Reynolds, Jr., M.B.A., Bowling Green State University, Instructor, Management. (1969)
- Jack J. Richardson, Ph.D., Southern Illinois University, Professor, Health Education.* (1965)

- Rachael G. Richardson, M.S. in Ed., Eastern Illinois University, Assistant Professor, English. (1963)
- Bill T. Ridgeway, Ph.D., University of Missouri, Associate Professor, Zoology. (1966)
- Harland A. Riebe, Ed.D., University of Colorado, Professor, Health Education. (1950)
- Garland T. Riegel, Ph.D., University of Illinois, Professor, Zoology.* (1948)
- Helen J. Riley, M.S. in Ed., Illinois State University, Assistant Professor, Physical Education for Women. (1965)
- Lawrence A. Ringenberg, Ph.D., The Ohio State University, Professor, Mathematics. (1947)
- William G. Riordan, Ph.D., Western Reserve University, Professor, Physical Education for Men. (1964)
- John L. Roberts, Ph.D., The University of Iowa, Associate Professor, Management. (1965)
- James H. Robertson, D.Ed., University of Illinois, Professor, Music and Education. (1956)
- Kathryn W. Robertson, M.S. in Ed., Eastern Illinois University, Instructor, English. (On sabbatical leave, 1970-71) (1965)
- Donald L. Rogers, D.Ed., University of Nebraska, Associate Professor, Laboratory School. (1963)
- Richard E. Rogers, Ph.D., Indiana University, Assistant Professor, English. (1969)
- George W. Rommel, Ph.D., Northwestern University, Professor, English. (1953)
- Jerome J. Rooke, M.S., Northern Illinois University, Assistant Professor, Accounting. (1965)
- Janet C. Ruddell, B.S. in Ed., Eastern Illinois University, Faculty Assistant, Laboratory School. (Part-time) (1970)
- Paul F. Ruddell, M.S., Purdue University, Instructor, Physics. (1967)
- Al G. Rundle, M.A., University of Denver, Assistant Professor, Speech. (1963)
- Charles G. Russell, M.A., Southern Illinois University, Assistant Professor, Speech. (On sabbatical leave, 1970-71) (1965)
- Joyce E. Rutledge, M.A., University of Arkansas, Instructor, Speech. (1969)
- Betty G. Ruyle, M.A., East Carolina College, Instructor, Laboratory School. (1965)
- Wanda E. Ruyle, M.S. in Ed., University of Illinois, Instructor, Elementary and Junior High School Education. (1969)
- Robert E. Saltmarsh, Ed.D., Indiana University, Assistant Professor, Educational Psychology and Guidance. (1969)
- James E. Salyers, M.A., University of Missouri, Assistant Professor, History. (1969)
- George P. Sanders, M.M., Yale University, Assistant Professor, Keyboard Music. (1964)
- J. W. Sanders, Ed.D., University of New Mexico, Assistant Professor, Physical Education for Men. (1970)
- Karen J. Sanders, M.M., University of Wisconsin, Assistant Professor, Keyboard Music. (1966)
- Judy L. Sarver, B.S., Eastern Illinois University, Faculty Assistant, Speech. (Part-time) (1970)
- Mauderie H. Saunders, Ph.D., University of Oklahoma, Professor, Psychology. (1970)
- Frank E. Schabel, B.A., State University of New York at Buffalo, Faculty Assistant, Laboratory School. (1967)
- John E. Schaefer, M.S., University of Wisconsin, Assistant Professor, Physical Education for Men. (1969)
- Lahron H. Schenke, Ed.D., Teachers College, Columbia University, Professor, Elementary and Junior High School Education. (1963)
- Wolfgang T. Schlauch, Ph.D., University of Freiburg, Associate Professor, History.* (1969)

- Joan K. Schmidt, M.S., Northern Illinois University, Instructor, Physical Education for Women and Education. (1970)
- Frederick R. Schram, Ph.D., University of Chicago, Assistant Professor, Zoology. (1968)
- Anthony E. Schwaller, M.S., Stout State University, Instructor, Industrial Technology. (1970)
- Thomas E. Scism, Ph.D., University of North Carolina, Assistant Professor, Political Science. (1970)
- Colonel W. Scott, B.S., Marshall University, Instructor, Physical Education for Men. (1968)
- Mary Elizabeth Scott, M.S. in L.S., Columbia University, Assistant Professor, Library. (1948)
- William W. Scott, Ph.D., University of Michigan, Professor, Botany.* (1968)
- Phillip M. Settle, M.F.A., University of Illinois, Assistant Professor, Laboratory School. (1957)
- Carl N. Sexton, P.E.D., Indiana University, Associate Professor, Health Education. (1966)
- Glenn H. Seymour, Ph.D., University of Illinois, Professor, History. (Part-time, fall quarter) (1929)
- June Shanholtzer, B.S. in Ed., Eastern Illinois University, Faculty Assistant, Mathematics. (Fall and winter quarters, 1970-71) (1969)
- Maurice D. Shepherd, M.A.T., Indiana University, Instructor, Chemistry and Physics and Education. (1967)
- Rose M. Shepherd, M.S., Southern Illinois University, Instructor, English. (Part-time) (1970)
- Paul L. Shriver, M.A., Bradley University, Instructor, Psychology. (1969)
- Marian S. Shuff, Ed.D., University of Kansas, Associate Professor, Education. (1966)
- Robert V. Shuff, Ph.D., University of Minnesota, Professor, Administration and Supervision.* (1964)
- Mary B. Shukis, B.S. in Ed., Eastern Illinois University, Instructor, Laboratory School. (Substitute) (1969)
- Carl E. Shull, Ph.D., The Ohio State University, Professor, Art. (1947)
- Bryan Shuster, M.A., Northeast Missouri State College, Instructor, Industrial Arts Education. (1968)
- Richard J. Sidwell, B.A., University of Oklahoma, Assistant Professor, Economics. (Substitute) (1970)
- Henry Silverstein, M.L.S., M.A., New York University, Assistant Professor, English. (1965)
- Delbert R. Simon, D.M.A., The University of Iowa, Associate Professor, Vocal Music. (1969)
- William B. Size, M.S., Northern Illinois University, Assistant Professor, Geography and Geology. (Substitute, winter and spring quarters, 1970-71) (1970)
- Peter J. Slavish, M.Ed., Pennsylvania State University, Instructor, Art. (Substitute) (1970)
- Allen W. Smith, Ph.D., Indiana University, Assistant Professor, Economics. (Substitute) (1970)
- Calvin N. Smith, Ph.D., Purdue University, Associate Professor, Speech. (On sabbatical leave, winter and spring quarters, 1970-71) (1965)
- Carolyn G. Smith, M.N., Western Reserve University, Assistant Professor, Health Education. (1952)
- Catherine A. Smith, D.Mus., Florida State University, Professor, Keyboard Music. (1949)
- Forrest G. Smith, M.A., San Francisco State College, Assistant Professor, English. (1969)

- Norman D. Smith, Ph.D., Indiana University, Assistant Professor, Chemistry. (1965)
- P. Scott Smith, Ph.D., Cornell University, Professor, Physics. (1953)
- Richard L. Smith, Ph.D., University of Texas, Assistant Professor, Botany. (1965)
- Robert J. Smith, Ph.D., The University of Iowa, Professor, Chemistry. (1955)
- Ruby M. Smith, Ph.D., Purdue University, Professor, Home Economics. (1967)
- Donald W. Smitley, Ed.D., University of Illinois, Associate Professor, Administration and Supervision. (1970)
- Robert C. Snyder, M.M., Indiana University, Assistant Professor, Instrumental Music. (1967)
- Robert E. Snyder, Ph.D., The University of Iowa, Assistant Professor, Vocal Music. (1969)
- Margaret Soderberg, Ph.D., Washington University, Associate Professor, Political Science. (On sabbatical leave, spring and summer quarters, 1970-71) (1962)
- Robert B. Sonderman, Ed.D., University of Missouri, Professor, Industrial Arts Education.* (1956)
- Walter Sorge, Ed.D., Columbia University, Associate Professor, Art.* (1970)
- Roland D. Spaniol, Ph.D., The University of Iowa, Professor, Management. (1960)
- John N. Speer, Ph.D., The Ohio State University, Assistant Professor, Botany. (1969)
- Kenneth J. Spencley, Ph.D., University of Illinois, Assistant Professor, English. (1966)
- Joan E. Squire, M.M., University of Illinois, Instructor, Keyboard Music. (1969)
- Henry A. Stackhouse, Ed.D., University of Missouri, Professor, Psychology. (1960)
- Sandra L. Staley, M.S., University of Illinois, Instructor, Laboratory School. (1968)
- Ray V. Stapp, D.Ed., Pennsylvania State University, Professor, Art. (1964)
- Sidney R. Steele, Ph.D., The Ohio State University, Professor, Chemistry.* (1947)
- James D. Steely, M.L.S., Indiana University, Instructor, Library. (1970)
- M. Lee Steinmetz, Ph.D., Brown University, Professor, English. (1959)
- Ronald L. Stephenson, B.S., Eastern Illinois University, Faculty Assistant, Speech. (Part-time) (1970)
- Robert W. Sterling, M.S. in Ed., Eastern Illinois University, Assistant Professor, History. (1956)
- Verne Stockman, Ed.D., Michigan State University, Professor, Instructional Materials.* (1955)
- Frank C. Stokes, M.A., University of Illinois, Assistant Professor, English. (1969)
- Victor Stoltzfus, Ph.D., Kentucky State University, Assistant Professor, Sociology-Anthropology. (1970)
- Sue B. Stoner, M.S. in Ed., Eastern Illinois University, Assistant Professor, Psychology. (1965)
- Gayle G. Strader, M.Ed., University of Illinois, Instructor, Laboratory School. (1965)
- Clifford E. Strandberg, Ed.D., Texas A & M University, Associate Professor, Industrial Arts Education. (1965)
- Twila E. Strandberg, M.S., Eastern Illinois University, Instructor, Speech Pathology and Audiology. (Part-time) (1970)
- Craig M. Stroh, M.A., University of Oregon, Assistant Professor, Economics. (1970)
- Stanley A. Strosser, M.A., University of California, Instructor, Economics. (1969)
- Frieda S. Stute, Ph.D., University of Illinois, Associate Professor, Sociology-Anthropology. (1966)
- Jack R. Sublette, M.A., University of Illinois, Instructor, English. (1968)
- Gerald E. Sullivan, Ph.D., University of Minnesota, Associate Professor, Theater Arts. (1969)
- Robert N. Sullivan, M.A., Murray State College, Assistant Professor, Business Education and Secretarial Studies. (1964)
- Francis E. Summers, M.S. in Ed., Southern Illinois University, Assistant Professor, Elementary and Junior High School Education. (On sabbatical leave, winter and spring quarters, 1970-71) (1965)

- L. Donald Sundheim, M.A., University of Minnesota, Instructor, Foreign Languages. (1968)
- Kenneth R. Sutton, Ph.D., University of New Mexico, Assistant Professor, Education. (1970)
- Rose A. Swanson, B.S., Eastern Illinois University, Faculty Assistant, Life Sciences. (Part-time) (1970)
- Carl L. Swisher, Ph.D., Northwestern University, Assistant Professor, Geography and Geology. (1969)
- Charles Switzer, Ph.D., Michigan State University, Associate Professor, English. (1966)
- Donald S. Swope, M.S., Columbia University, Assistant Professor, Library. (1964)
- Mary Ruth Swope, Ed.D., Columbia University, Professor, Home Economics. (1962)
- P. Rex Syndergaard, Ph.D., St. Louis University, Professor, History. (1956)
- B. Joseph Szerenyi, D.Pol.S., Elizabeth University, Professor, Library. (1967)
- Henry A. Taitt, M.S., University of Delaware, Assistant Professor, Physics. (On leave, 1970-71) (1965)
- Nancy P. Taitt, M.A., University of Delaware, Instructor, Mathematics. (Fall and winter quarters, 1970-71) (1969)
- Bethel Tame, A.B., Northwest Nazarene College, Faculty Assistant, Speech. (Fall and winter quarters, 1970-71) (1968)
- Ellwood R. Tame, Ph.D., University of Denver, Professor, Speech. (1965)
- Virginia A. Tate, M.Ed., University of Missouri, Assistant Professor, Laboratory School. (1952)
- Carl M. Tausig, Ed.D., University of Illinois, Associate Professor, Laboratory School. (1970)
- Frank S. Taylor, Ph.D., Boston University, Assistant Professor, Philosophy. (1965)
- Dean A. Teel, Ed.D., Texas A & M University, Associate Professor, Industrial Technology. (1967)
- Virginia J. Tefft, Ed.D., University of New Mexico, Associate Professor, Physical Education for Women. (1969)
- Francis L. Teller, M.A., Teachers College, Columbia University, Assistant Professor, Physical Education for Men. (1963)
- John T. Thaxton, M.A., University of Washington, Instructor, English. (1970)
- James E. Thayer, M.A., Indiana University, Assistant Professor, Sociology-Anthropology. (1968)
- Larry W. Thompson, M.A., Oklahoma State University, Instructor, English. (1969)
- Daniel E. Thornburgh, M.A., The University of Iowa, Assistant Professor, English. (1959)
- Laurence C. Thorsen, Ph.D., University of Illinois, Assistant Professor, Political Science. (1968)
- Wayne L. Thurman, Ph.D., Purdue University, Professor, Speech Pathology and Audiology.* (1953)
- Robert C. Timblin, M.A., University of Illinois, Assistant Professor, Sociology-Anthropology. (1960)
- Donald F. Tingley, Ph.D., University of Illinois, Professor, History. (1953)
- Jeanne C. Tingley, B.Ed., Eastern Illinois University, Faculty Assistant, Physical Education for Women. (1961)
- Donald C. Tracy, M.M., University of Michigan, Instructor, Instrumental Music. (1968)
- Lynn E. Trank, Ph.D., The Ohio State University, Professor, Art. (1952)
- George H. Triplett, M.S., Oklahoma State University, Assistant Professor, Laboratory School. (1968)
- Charles F. Tucker, B.S. in Ed., Eastern Illinois University, Faculty Assistant, Chemistry. (1955)

- Mary C. Turner, M.A., West Virginia University, Instructor, Laboratory School. (1969)
- Donna C. Tuveson, B.S., University of Minnesota, Faculty Assistant, Laboratory School. (Part-time) (1969)
- Helen VanDeventer, M.S. in Ed., Eastern Illinois University, Assistant Professor, Foreign Languages. (1960)
- Charles R. Vaughan, M.S. in Ed., Eastern Illinois University, Assistant Professor, Physical Education for Men. (1965)
- Stuart P. Vincent, M.S., University of Nebraska, Associate Professor, Elementary and Junior High School Education. (1967)
- Peter M. Vivona, M.A., The Ohio State University, Assistant Professor, Instrumental Music. (1967)
- Thomas J. Vocino, M.S., University of Wisconsin, Assistant Professor, Political Science. (Substitute) (1970)
- Leyla Waddell, B.S. in Ed., Eastern Illinois University, Faculty Assistant, Library. (Part-time) (1967)
- Robert C. Waddell, Ph.D., Iowa State University, Professor, Physics. (1948)
- Ross J. Wakefield, B.S. in Ed., Eastern Illinois University, Faculty Assistant, Laboratory School. (Part-time) (1970)
- Ronald G. Wallace, Ph.D., The Ohio State University, Assistant Professor, Geography and Geology. (1970)
- A. Ruth Walther, M.S., Butler University, Instructor, Laboratory School. (1970)
- Paul G. Walther, D.Ed., Indiana University, Associate Professor, Elementary and Junior High School Education. (1970)
- Willis O. Waltman, M.S., Indiana State University, Executive Assistant, Instructional Materials, Laboratory School. (1969)
- Paul L. Ward, Ph.D., The Ohio State University, Associate Professor, Educational Psychology and Guidance. (1967)
- Ben P. Watkins, M.A., Louisiana State University, Assistant Professor, Art. (1964)
- Mary Lou Watkins, M.S. in Ed., Eastern Illinois University, Instructor, Home Economics. (1969)
- Charles W. Watson, M.A., Western Kentucky State College, Instructor, Industrial Arts Education. (On sabbatical leave, 1970-71) (1965)
- Mary L. Weber, M.S., University of California, Assistant Professor, Physical Education for Women. (1970)
- Robert W. Weidner, Ph.D., University of Rochester, Professor, Music Theory, History and Literature. (1965)
- Terry M. Weidner, Ph.D., The Ohio State University, Associate Professor, Botany. (1964)
- Nancy Weiler, M.S., Purdue University, Instructor, Speech Pathology and Audiology. (1969)
- William A. Weiler, Ph.D., Purdue University, Assistant Professor, Botany. (1969)
- Robert W. West, M.F.A., Tulane University, Assistant Professor, Theater Arts. (1970)
- George S. Westcott, Ph.D., The University of Iowa, Professor, Instrumental Music. (1949)
- Edwin A. Whalin, Jr., Ph.D., University of Illinois, Professor, Physics. (1966)
- Robert V. Wharton, Ph.D., Columbia University, Professor, English. (1956)
- Bruce C. Wheatley, Ph.D., University of Denver, Assistant Professor, Speech. (1966)
- Joan F. White, Ph.D., Bryn Mawr University, Assistant Professor, Zoology. (1968)
- Richard A. White, M.S., Southern Illinois University, Assistant Professor, Elementary and Junior High School Education. (1969)
- Robert F. White, Ph.D., University of Pennsylvania, Professor, English.* (1960)
- Wesley C. Whiteside, Ph.D., Florida State University, Professor, Botany. (1960)

- L. Stephen Whitley, Ph.D., Purdue University, Associate Professor, Zoology. (1963)
Roger L. Whitlow, M.S., Illinois State University, Assistant Professor, English. (1967)
Clarence B. Wible, M. Litt., University of Pittsburgh, Assistant Professor, English. (1967)
Harold A. Widdison, Ph.D., Case Western Reserve University, Assistant Professor, Sociology-Anthropology. (1970)
Richard Wigley, Assistant Professor, Health Education. (Substitute) (1967)
Rebecca S. Wild, Ph.D., University of Michigan, Associate Professor, English. (1966)
Carl E. Wilen, M.F.A., University of Illinois, Assistant Professor, Art. (1965)
Roger G. Wiley, M.A., Louisiana State University, Assistant Professor, Speech. (1964)
Wanda L. Wiley, M.A., Louisiana State University, Assistant Professor, English. (1967)
Larry J. Williams, M.A., University of Oregon, Assistant Professor, Mathematics. (1964)
Ned Williams, Ph.D., Columbia University, Professor, Management. (1969)
Gilbert E. Wilson, Ph.D., Southern Illinois University, Associate Professor, Health Education. (1962)
Robert C. Wiseman, Ed.D., Indiana University, Associate Professor, Instructional Materials. (1958)
Verna D. Wittrock, Ph.D., University of Illinois, Associate Professor, English. (1966)
Ronald T. Wohlstein, M.A., University of Alberta, Assistant Professor, Sociology-Anthropology. (Substitute) (1970)
Karen L. Womack, M.S., Indiana University, Instructor, Physical Education for Women. (1968)
Leonard C. Wood, Ph.D., University of Pennsylvania, Associate Professor, History. (1960)
M. Thomas Woodall, Ph.D., The University of Iowa, Associate Professor, Physical Education for Men. (1965)
Wayne E. Wyler, M.S., Brigham Young University, Assistant Professor, Accounting. (1965)
- Harriet E. Yingling, Ed.D., New York University, Professor, Physical Education for Women.* (1968)
Marina Su-Chin Yu, M.A., Texas Woman's University, Assistant Professor, Physical Education for Women. (1966)
- Robert Zabka, Ph.D., Northwestern University, Associate Professor, Elementary and Junior High School Education. (1964)
William R. Zbinden, D.Ed., University of Illinois, Associate Professor, Education. (1969)
Lorene E. Ziegler, D.Ed., Columbia University, Professor, Education. (1947)
Endre Zongor, M.A., Western Michigan University, Assistant Professor, Library. (1968)
Gary L. Zwicky, D.M.A., University of Illinois, Associate Professor, Keyboard Music.** (1966)

EMERITUS FACULTY**President Emeritus**

Robert G. Buzzard, Ph.D.

Vice President for Instruction Emeritus

Hobart F. Heller, Ph.D.

Professors Emeritus

Donald R. Alter, Ph.D.
Robert L. Blair, Ph.D.
Harold V. Cavins, Ed.D.
Ruth H. Cline, Ph.D.
Charles H. Coleman, Ph.D.
Earl S. Dickerson, Ed.D.
Arthur U. Edwards, Ph.D.
Kevin Guinagh, Ph.D.
Edith C. Haight, Ph.D.
Bryan Heise, Ph.D.
E. Chenault Kelly, D.Ed.
Walter A. Klehm, Ed.D.
Russell H. Landis, D.Ed.
Elizabeth K. Lawson, Ph.D.

Glen Q. Lefler, Ph.D.
Lawson F. Marcy, Ph.D.
Glenn A. McConkey, Ph.D.
Sadie O. Morris, Ph.D.
Harris E. Phipps, Ph.D.
Emma Reinhardt, Ph.D.
J. Glenn Ross, Ph.D.
Donald A. Rothschild, Ph.D.
Roscoe F. Schaupp, Ph.D.
Ruth Schmalhausen, Ed.D.
Glenn H. Seymour, Ph.D.
Hiram F. Thut, Ph.D.
William G. Wood, Ph.D.

Assistant Professors Emeritus

Myrtle Arnold, A.M.
Winifred H. Bally, M.A.
Ruth Carman, M.A.
Gilbert T. Carson, A.M.
Leah Stevens Castle, S.M.
Margaret L. Ekstrand, A.M.L.S.
Lena B. Ellington, A.M.
Aline Elliott, M.S.
Harriet Love Hershey, M.S.

Ruth Hostetler, A.M.
Jessie M. Hunter, M.A.
Ica Marks, M.S.
Roberta L. Poos, A.M.
Florence E. Reid, M.A.
Nannilee Saunders, M.A.
Lee Anna J. Smock, M.A.
Ethel Hanson Stover, A.M.

Instructor Emeritus

Lottie Leeds, M.S.Ed.

Director of Business Services Emeritus

Raymond R. Gregg, A.M.

DISABILITY LEAVE**Professors**

David J. Davis, Ph.D.
William H. Groves

Assistant Professor

Robert R. Thrall, M.S.



I. GENERAL INFORMATION

PURPOSE

Since the time of its founding Eastern Illinois University has developed a comprehensive and stimulating curriculum which offers an education in the liberal arts and sciences and in professional areas. The primary aim of the University's program is to provide excellent instruction and an educational environment which will produce broadly educated, responsible citizens who are prepared to serve and to lead in a free society. The University is committed to a policy of non-discrimination with respect to race, religion, and national origin in all facets of its educational and student-life programs.

ACCREDITATION

The University has been accredited by the North Central Association of Colleges and Secondary Schools since 1915. It is also accredited by the National Council for Accreditation of Teacher Education for the preparation of elementary and secondary teachers and school service personnel. It is a member of the American Council on Education and the American Association of Colleges for Teacher Education. The School of Music is accredited for the B.A., B.S.Ed., M.A., and M.S.Ed. by the National Association of Schools of Music. The B.S. degree in chemistry is accredited by the American Chemical Society.

LOCATION

Charleston, county seat of Coles County, is located in east-central Illinois on highways 130 and 16. Highway 16 (four lanes) connects Charleston with Mattoon. Ozark Airlines furnish flights daily to and from Chicago and St. Louis from Coles County Airport. The city has a population of 16,200.

HISTORY

The General Assembly of Illinois, by an act approved May 22, 1895, established at Charleston, Illinois, the Eastern Illinois State Normal School. In response to its changing role in higher education, the institution became Eastern Illinois State Teachers College (1921), Eastern Illinois State College (1947), and Eastern Illinois University (1957).

In 1907 the General Assembly granted to the institution the power of conferring degrees. The first master's degrees were awarded in 1952, and the first Specialist in Education degree was awarded in 1966.

THE CAMPUS

The grounds of the University cover an area of over three hundred and sixteen acres of landscaped, generally level land. In addition to the campus proper, the University also includes two wooded tracts near Charleston, the 126 acre Rocky Branch Area and the Burgner ten acres, both of which are used for nature study and life science research.

The chief buildings on the campus and the units included in them are as follows:

LIVINGSTON C. LORD ADMINISTRATION BUILDING (OLD MAIN):

Administrative offices; Paul Sargent Art Gallery; Departments of Mathematics and Psychology.

FRANCIS G. BLAIR HALL: School of Business and Computer Services Center.

STUDENT SERVICES BUILDING: Offices of Admissions, Housing, Residence Hall Food Services, Student Activities and Organizations, Student Services and Administration, Foreign Student Advisement, and Duplicating Services.

SCIENCE BUILDING: Departments of Chemistry, Geography, and Physics.

LIFE SCIENCE BUILDING: Departments of Botany and Zoology.

MARY J. BOOTH LIBRARY: Main library and Audio-Visual Center.

ROBERT G. BUZZARD LABORATORY SCHOOL: The University laboratory school, kindergarten through grade nine.

FLORENCE McAFEE GYMNASIUM: Department of Women's Physical Education.

FINE ARTS CENTER: School of Music; Departments of Art and Theatre Arts.

CLINICAL SERVICES BUILDING: Health Service; Reading, Speech, and Hearing Clinics; Counseling and Testing Center; Department of Speech Pathology and Audiology.

CHARLES H. COLEMAN HALL: Departments of Speech, Foreign Languages, English, History, Sociology-Anthropology, Economics, Political Science, and Philosophy.

CHARLES P. LANTZ HEALTH, PHYSICAL EDUCATION AND RECREATION BUILDING: Features include a gymnasium, swimming pool, field house, archery, rifle, and pistol ranges; Departments of Health Education and Men's Physical Education and Recreation.

APPLIED ARTS-EDUCATION CENTER: School of Home Economics; School of Industrial Arts and Technology; Faculty of Education.

UNIVERSITY UNION: Features include a cafeteria, the Panther Lair Snack shop, bowling alleys, ballroom, lounges, meeting rooms, and book store.

TELEPHONE AND SECURITY BUILDING: Security staff and university telephone system.

Dormitory complexes include the following buildings and capacities:

PEMBERTON HALL: (201).

FORD, McKINNEY, AND WELLER HALLS: (450). Served by Gregg Triad dining room.

THOMAS HALL: (438).

TAYLOR HALL: (592).

LINCOLN HALL, DOUGLAS HALL, STEVENSON TOWER: (748).

ANDREWS HALL: (480).

LAWSON HALL: (480).

CARMAN HALL: (816).

UNIVERSITY APARTMENTS: 154 apartments for married students.

ORGANIZATION OF THE UNIVERSITY

Eastern Illinois University is one of five state universities under the general jurisdiction of the Board of Governors of State Colleges and Universities, to whom the President is finally responsible for the operation and general welfare of the university.

The university is functionally organized into four areas each headed by a vice president: Academic Affairs, Student Affairs, Business Services, Development and Staffing.

Chief instructional units include the College of Letters and Science, the Faculty of Education, the Graduate School, the School of Business, the School of Health, Physical Education, and Recreation, the School of Home Economics, the School of Industrial Arts and Technology, and the School of Music. Each of these units is headed by a dean.

Faculty and student participation in university affairs is accomplished through a Faculty Senate, a Student Senate, and membership on a number of academic and administrative committees. These councils, most of which have both student and faculty members, consider and recommend policies, curricula, and procedures to the President.

DIVISION OF THE YEAR

The university year, September 1 through August 31, consists of four quarters. Three of the quarters, each twelve weeks in length, constitute the traditional academic year, September 1 through May 31. The fourth quarter of ten weeks is offered during the summer months. A graduate term of eight weeks is in session concurrently with the last eight weeks of the summer quarter.

ALUMNI ORGANIZATIONS

Recognizing the contribution a body of truly interested alumni can make to the development of an institution of higher learning, the University has encouraged the growth of various alumni organizations. Since all who have been students at Eastern, whether graduates or not, are eligible to participate in alumni activities, students now in school are encouraged to learn more about the alumni program.

THE ALUMNI ASSOCIATION

The Eastern Alumni Association, established in 1905, is composed of persons who have either received degrees from this institution or completed a minimum of one quarter's work here.

Officers of the Alumni Association for 1970-71 are Don Castles, Mattoon, president; Mrs. Dorothy Greathouse, Mattoon, vice president; and Mrs. Nancy Jamnik, Joliet, secretary-treasurer.

The Executive Committee for the Association is composed of the officers and twelve other members elected for three-year terms. Committee members are Winston Brown, Edwardsville; Paul Foreman, Charleston; Dale Downs, Charleston; Howard Allison, Charleston; James O. Beavers, Taylorville; Walt Brantley, Springfield; Ben Franklin, Belleville; Irl Schuyler, Windsor; Lewis Linder, Charleston; Bob Miller, Springfield; Frank Cattaneo, Belleville; Mrs. Margaret Gillum, Springfield.

In 1947 the Alumni Association issued the first Eastern Alumnus, a quarterly magazine mailed to subscribers throughout the United States and several foreign countries. Subscription rates (which include membership in the Alumni Association) are \$2.00 for one year, \$4.00 for two years, and \$5.00 for three years.

THE EASTERN ILLINOIS UNIVERSITY FOUNDATION

In 1953 the Eastern Illinois Alumni Association sponsored the establishment of the foundation, a non-profit corporation organized under the laws of the State of Illinois for charitable and educational purposes.

The objectives of the Foundation are to assist in developing and increasing the facilities of the University by encouraging gifts of money, property, works of art, historical papers and documents and other materials having educational, artistic, or historical value. Such gifts should be conveyed to the Foundation, with proper stipulation as to their use. The Foundation, through its officers and members, will be glad to confer with intending donors regarding suitable clauses to insert in wills and suitable forms for gifts and memorials. The establishment of scholarships is particularly welcomed. Any gifts or bequests can be given suitable memorial names.

Membership of the Foundation consists of 100 persons, including alumni and friends of the University. Honorary members without vote are the President of the University, the President of the Board of Governors of State Colleges and Universities, the President of the Alumni Association, the Vice President for Business Services, and the Director of Alumni Services.

The Board of Directors of the Foundation consists of nine persons elected from the general membership. The President of the University, the President of the Board of Governors, and the President of the Alumni Association are ex officio members of the Board of Directors.

The present officers of the Foundation are:

Mr. Glen Hesler, President, Mattoon

Mr. Raymond R. Gregg, Vice-President, Charleston

Mr. Ogden Brainard, Attorney, Charleston

Mr. Harley J. Holt, Treasurer, Eastern Illinois University, Charleston

Mr. Kenneth E. Hesler, Executive Director, Eastern Illinois University, Charleston

Mr. Harry Read, Secretary, Eastern Illinois University, Charleston

II. STUDENT LIFE, ACTIVITIES AND SERVICES

LIVING ACCOMMODATIONS

UNIVERSITY HOUSING POLICY

Single students, under the age of 21, other than seniors, are required to live in University registered housing or a University Residence Hall, unless they live at home. Any deviation from this policy requires the written permission of the Director of Off-Campus Housing.

Seniors, graduates, student teachers, interns and students 21 years of age or older may select their place of residence.

The University is committed to a policy of non-discrimination in housing with respect to race, religion and national origin. All university owned and registered housing must be operated in conformance with this policy.

Students residing in university owned or registered housing must maintain the status of a student enrolled in Eastern Illinois University.

Students in university owned or registered housing agree to comply with the rules and regulations of the University as contained in the General Catalog, Student Handbook, Residence Hall Handbooks and State of Illinois statutes, which apply to students and the University.

ON-CAMPUS HOUSING

Residence Halls. University residence halls are designed primarily for double occupancy except for some single and triple rooms and the suite arrangement of Stevenson Tower. Residence hall accommodations are as follows:

WOMEN'S HALLS

Andrews	480
Carman	816
Douglas	194
Ford	150
Lawson	480
Lincoln	194
McKinney	150
Pemberton	201
Weller	150

MEN'S HALLS

Taylor	592
Thomas	438
Stevenson	360

The University reserves the right to make changes in the above dependent upon the demand for residence hall accommodations.

An application for residence hall room and board (20 meals per week) should be requested from the Office of the Dean, Student Housing. (Application for admission to the University does not constitute an application for housing.) A \$25 Housing Security Deposit (not applied to room and board) is required when making application and serves as a guarantee of contract fulfillment and a deposit for property loss or damage. Accommodations in the residence halls are granted on a priority basis, which is determined by the date of application. Specific information regarding the University residence halls will be mailed with the application for accommodations.

OFF-CAMPUS HOUSING

Registered housing consists of homes in the community which have been registered as meeting the minimum health and safety standards set by the University and the Fire Marshal. A small number of these homes provide cooking privileges for the residents. The students are responsible for making arrangements with the householder for accommodations in the community; however, the University requires that a copy of the signed agreement between the householder and the student be deposited in the Office of the Dean, Student Housing. Listing of registered housing and a brochure describing the required standards are available from the Office of the Director of Off-Campus Housing.

MARRIED HOUSING

The University Apartments consist of 154 units for married students; 100 two-room apartments and 54 one and one-half room apartments. Each apartment is partially furnished, including a stove and refrigerator. Utilities are furnished by the University. The rental charge for an apartment is as follows:

Two-room apartment	\$91.50
One and one-half room apartment	\$81.50

Additional information and applications for apartment living should be requested from the Assistant Dean, Married Housing.

Married students and single students eligible to live in unregistered housing may secure a list of rental properties from the Director of Off-Campus Housing.

GENERAL SERVICES

COUNSELING

The Counseling Center is staffed by professional counselors and counseling psychologists who assist students with adjustment problems which may interfere with their deriving maximum benefit from their university experiences. Psychological services related to educational development, vocational choice, and personal and social adjustment are available without cost to all students.

EMPLOYMENT

The Director of Financial Aids receives applications for part-time employment and assists students in finding work at the University and in the community. Student

employment is contingent upon maintenance of satisfactory academic standing. See Section III, College Work Study Program.

INSURANCE

By action of the Board of Governors, each full-time student is assessed a fee for group health and accident insurance administered by the University to supplement services performed by the University Health Service. Insured students are eligible to purchase identical coverage for their dependents.

The insurance is available for all four quarters of the year. Students attending spring quarter who do not intend to be enrolled during the summer but who wish summer coverage must apply for this insurance sometime during the spring quarter. Summer quarter insurance is in force until the following registration day.

The group policy provides for the first \$500 of all reasonable hospital expenses, 80 percent of all reasonable hospital expenses over \$500, and 80 percent of reasonable surgical or medical fees, up to \$10,000 for any one accident or period of illness not exceeding one year from date of first treatment.

Information concerning the insurance may be obtained in the Office of Financial Aids.

MEDICAL

The Health Service is located in the Clinical Services Building. It renders limited medical and surgical care, supervises the periodic physical examinations, and has general oversight of health conditions of the University community.

Services provided by the Health Service are covered by student activity fees.

PLACEMENT

Registration or re-registration with the Placement Office is recommended prior to graduation for all degree candidates. The Placement Office seeks to help graduates secure positions for which they are qualified and furnishes prospective employers with pertinent information about the applicants. It also maintains a follow-up service, including a program of visits and reports from employers and persons placed. Placement services are free to students who qualify.

Teacher Placement Services are available to undergraduates who have been in attendance at Eastern for a year, who have been admitted to a teacher education curriculum, and have attained senior standing. Graduates who hold a degree other than B.S. in Ed. are eligible for teacher placement services if requirements for a regular teacher's certificate are met. **Graduate Students** may register for placement if they have attended Eastern Illinois University for one quarter and have earned 16 quarter hours of graduate credit towards a master's degree. This credit may include graduate extension courses offered off campus. **Alumni** whose institutional records are clear may re-register by bringing their credentials up to date and paying a fee of \$5. The placement registration fee for graduates initiating registration more than one year after graduation is \$25.

Industrial and Business Placement Services are available to students who have attained senior standing. The Placement Office furnishes the candidate's credentials to prospective employers and offers other services fundamental to their selection of employees.

TESTING

Testing services are available to University students without charge. Aptitude, intelligence, interest, personality and other tests are often used in counseling.

The Testing Service operates an IBM 1230 test scoring machine with an attached IBM 534 card punch. Area schools may arrange for the scoring of standardized tests at a nominal charge. University faculty may arrange for the scoring of classroom tests to include item analysis at no cost. For detailed information contact the Coordinator of Testing.

INSTRUCTIONAL SERVICE

AUDIO-VISUAL SERVICES

The Audio-Visual Center operates an educational service for faculty and students. Audio-visual teaching materials such as films, filmstrips, and recordings are available both from a small on-campus library and from rental sources. Orders for rental films usually take three weeks. Limited preview services are available. Services are available for producing slides, transparencies, photographic copies, and other types of materials for classroom instruction. Consultative service is offered to university faculty, prospective teachers, and to schools in the area.

BOOK RENTAL AND SALES

Basic textbooks for courses are rented to students through the Textbook Library. Book rent is included in the registration fee.

Rented textbooks must be returned in satisfactory condition by noon of the day following the last day of the quarter. Damage other than that of ordinary wear must be paid for by the student. Students who note damage in textbooks issued to them must report such condition to the manager of the Textbook Library within the first two weeks or be held liable for the damage. Damage to a book includes underscoring, highlighting, annotating, adding other marginalia, etc. A fine of \$1 per book is imposed if the student's textbook record is not clear by the close of the quarter.

LIBRARY SERVICES

Booth Library. The Booth Library is the general library of the University and contains a book stock of over 230,000 cataloged volumes besides governmental documents, microtexts, maps, and pamphlets chosen to support the educational effort of the University. A sizeable addition to the original building was opened in 1968. All books in the library are on open shelves except those that are rare.

In the central area of the first floor are located the Circulation Department and the General Card Catalog. The Reference Department also is located near the center of the first floor. Here the students find the answers to many of their problems. There are periodicals, indexes and abstracts available as well as a collection of reference books. Special facilities such as seminar, group study, conference, and faculty study rooms and equipment for reading microtext materials are also provided on this floor. The current issues and the bound volumes of periodicals are kept on the second floor on open stacks.

The library serves as a depository for selected publications of the United States Government and for maps issued by the U.S. Army Map Service. Over 5,000 recordings for leisure-time enjoyment of music are available in the Music Room. A publisher's exhibit of textbooks for elementary and secondary schools is also provided. The Reserve Room is located in the northwest corner of the main floor. Library materials for specific courses are placed in the Reserve Room at the request of faculty members.

Laboratory School Library. This library, a part of the general University library system, houses a collection of materials suitable for the elementary and junior high school levels. Besides serving the needs of the Laboratory School, it plays an essential role in the preparation of school librarians. Prospective teachers are urged to familiarize themselves with the books and periodicals in the collection and with its method of operation.

READING IMPROVEMENT

Each quarter, the Reading Clinic offers non-credit courses in speed reading designed to improve speed, comprehension, and general study habits. Classes meet at various times during the day so that each student may choose a section which meets at a convenient hour. Courses are free to regularly enrolled students. Materials used in the courses are furnished without charge. Application for admission should be made early in the quarter at the Reading Clinic on the second floor of the Clinical Services Building.

In addition to conducting its University reading program, the clinic accepts some children, usually from elementary schools in the area, for corrective work in reading. Junior, senior, and graduate students taking advanced work in reading obtain practical experience by working with these children under supervision.

SPEECH AND HEARING DIAGNOSIS AND CORRECTION

The Speech and Hearing Clinic is housed on the second floor of the Clinical Services Building. Modern equipment is available to assist in testing of hearing, evaluation of hearing aids, and improvement of speech and language disorders. The services are available without charge to university students, Laboratory School pupils, and children and adults in east central Illinois. Junior, senior, and graduate students in courses of speech and hearing obtain required clinical practice by working with these cases under supervision.

SOCIAL AND CULTURAL LIFE AND ACTIVITIES

STUDENT-FACULTY BOARDS

Student members of the student-faculty boards are appointed by the Student Senate; faculty members are appointed by the Faculty Senate. The vice president of the Student Body and the Associate Dean, Student Activities and Organization, or his representative, are ex officio members of all boards. The boards are as follows: Apportionment, Artist Series, Lecture Series, Men's Athletic, Publications, Radio, and Safety and Traffic.

ACTIVITY FEES

Most activities under the supervision of student-faculty boards receive their support from activity fees charged all students. The allocation of funds from the activity fees is made by the Apportionment Board, after consideration of budgets presented by the several major activities supported in whole or in part by the fund.

ARTISTS SERIES

Each year the University offers as cultural entertainment individuals and groups of national reputation in programs of music, theatre, and dance.

A student-faculty Artists Series Board arranges and administers the series, with due regard for the preferences and needs of students. In most instances students gain admission by presenting a properly validated ID card; for other programs, a reduced price is offered. Faculty members and area residents may purchase individual or series tickets.

LECTURE SERIES

The University offers a series of several lectures each year by well-qualified speakers on topics of general interest. The lecturers are selected by a board composed of faculty and students. Various departments also engage lecturers in fields of specialized interest. No admission fee is charged.

UNIVERSITY UNION ACTIVITIES

The University Union houses a cafeteria, snack bar, game rooms, bowling alley, bookstore, ballroom, lounges, and offices for the Director, Assistant Director, Director of the University Union Food Services, and the Student Senate. The Director and Assistant Director of the University Union, assisted by the Union Programming Board, plan activities for the students such as dances, receptions, billiards, bridge, chess contests, and other entertainment.

Organizations wishing to use University facilities may schedule the facilities at the University Union Scheduling Desk.

FORENSICS

Through the Department of Speech, students of undergraduate standing are offered the opportunity to participate in intercollegiate tournament experience in extemporaneous speaking, oratory, debate, and discussion.

Members of the forensic teams engage in competition with speakers from the major colleges and universities. Opportunity is also provided for members of the teams to appear on radio and television programs throughout the Illinois-Indiana area and before civic clubs and high school assemblies.

Affiliation is maintained with several regional and national forensic organizations including: Illinois Intercollegiate Debate League, Illinois Intercollegiate Oratorical Association, Interstate Oratorical Association; American Forensic Association; and Pi Kappa Delta, the national honorary forensic fraternity.

INTRAMURAL SPEECH ACTIVITIES

Each year the Department of Speech offers any undergraduate student the opportunity to participate in an Intramural Speech Contest. This activity is designed for critical analysis and further student development in meaningful speech events.

STUDENT SPEAKER BUREAU

A Student Speaker Bureau is coordinated through the Department of Speech. Students may register with the bureau, requesting they be listed in a publication sent to service clubs and schools in the area. The bureau affords the student the opportunity to appear in actual speaking situations to improve their communication ability.

THEATRE

The Department of Theatre Arts sponsors a variety of activities. A full-length play and a full-length oral interpretation program are presented each quarter as public performances. Each week a student-directed workshop program is produced; this activity includes short plays, skits, readings and demonstrations.

Any student in the University is eligible to participate in the activities of the department. Practical experience in all phases of theatre can be obtained.

The department conducts its activities in a theatre which seats 420 people.

RADIO

Several activities provide an introduction to the broadcast media. Each week students help produce radio programs that are broadcast by stations in Illinois. The campus radio station, WELH, operated entirely by students, broadcasts more than 50 hours per week. A Radio Club meets weekly to produce special radio programs, such as hootenannies, promotional announcements, etc., and to introduce the student to the skills and theories of broadcasting. The activities mentioned above are open to all full-time students regardless of major. Interested students may contact WELH in the Speech Department.

MUSIC

Music organizations provide opportunities for musical growth through activities which in turn contribute to the life of the University. Instrumental organizations include a marching band, a concert band, a pep band, symphonic winds, symphonette and an orchestra. Other special vocal and instrumental ensembles afford additional opportunities for students to study and perform.

THE PAUL TURNER SARGENT ART GALLERY

The Paul Turner Sargent Art Gallery in Old Main brings to the campus exhibitions selected from various areas of the visual arts. These shows include paintings, ceramics, photography, sculpture, jewelry, prints, textiles—a collection is usually on display for a three-week period. Special lectures and films related to the exhibitions are scheduled from time to time. This activity provides important original works for study in art classes.

PUBLICATIONS

Student publications are a semi-weekly newspaper, the *Eastern News*; a literary magazine, the *Vehicle*; and a yearbook, the *Warbler*. The newspaper is published by a student staff with a faculty advisor. Staff positions on the *News* are open to all qualified students.

The *Warbler* is issued annually as a pictorial record of the University year. A student editorial staff, supervised by a faculty advisor, is responsible for the publication. All qualified students are eligible for the staff.

The *Vehicle* is published three times annually. Literary material is solicited from all students.

A portion of each student's activity fee goes toward a school-year subscription to the *Eastern News*, the *Vehicle*, and the *Warbler*.

WOMEN'S ATHLETICS

The Department of Physical Education for Women sponsors the Women's Recreation Association which is open to all women enrolled as regular students. Any student becomes a member of the *Women's Recreation Association* by participating in one activity. Any active member is eligible to vote, to attend the annual banquet, to travel to other colleges for competition, and to participate in the sports-days held at the University. There are twenty-one activities during the year: archery, badminton, baitcasting, basketball, bowling, canoeing, fencing, field hockey, folk and square dancing, golf, gymnastics, modern dance, officiating, softball, speed swimming, synchronized swimming, speedball, track and field, tennis, and volleyball. Basketball, softball, and volleyball are organized on an intramural basis, with teams from residence halls, sororities and private homes competing. The modern dance concert and the synchronized swimming show are special events in which any student may perform. Two awards are given by the Women's Recreation Association to students who participate actively in the athletic program for women.

INTRAMURAL ATHLETICS

The Department of Physical Education for Men offers an intramural program with opportunities for participation in recreative physical activities. Participation is voluntary and open to all students. The objective of this program is to make recreation and physical development available to every student.

INTERCOLLEGIATE ATHLETICS

The program of intercollegiate athletics is dedicated to a belief that athletic competition promotes individual development of traits such as sportsmanship, fair play, honesty, fellowship, understanding, and adherence to democratic ideals to the end that personal growth and character will result. In addition, the acquisition of certain professional techniques and skills particularly for men who plan to coach are objectives of the athletic program. In furtherance of these purposes, the University is a member of the Interstate Intercollegiate Athletic Conference, the National Association for Intercollegiate Athletics, and the National Collegiate Athletic Association.

The University program of intercollegiate athletics includes football, basketball, baseball, track, cross country, wrestling, tennis, golf, gymnastics, swimming, and soccer. The University adheres to the intercollegiate athletics policies of the North Central Association of Colleges and Secondary Schools.

STUDENT ORGANIZATIONS

STUDENT SENATE

The Student Senate is a representative body for all students. The officers and members are elected by popular vote.

The Senate is concerned with matters pertaining to student welfare, student activities, and student participation in university planning and administration.

DEPARTMENTAL CLUBS

Accounting, Botany, Elementary and Jr. High Men, Economics, French, Geology, German, History, Home Economics, Industrial Arts, Latin, Mathematics, Men's Physical Education, Music Educators National Conference, Pre-Medical Association,

Russian, Sociology-Anthropology, Spanish, Student Affiliate of National Art Education Association, Speech Pathology, Student Affiliate Section of the American Chemical Society, Student Affiliate of the Society for the Advancement of Management, Student Chapter of the American Marketing Association, Music Teachers National Association, Student Section of the American Institute of Physics, Women's Physical Education, Zoology Seminar, Association of Industrial Technology, Data Processing Management Association, Student Association for Recreation.

RELIGIOUS ORGANIZATIONS

Baptist Student Union, Canterbury Club, Christian Science Organization, Deseret Club, Fellowship of Christian Athletes, Inter-varsity Christian Fellowship, Lutheran Student Movement, Newman Community, Roger Williams Fellowship, Student Religious Council, United Campus Ministry, Universal Unitarians.

ATHLETIC ORGANIZATIONS

Varsity Club, Women's Recreation Association.

RESIDENCE HALL GOVERNMENT

The Executive Council of each residence hall is the elected governing body for the residents. Each resident is a participating member through his or her elected representative. Residents also have an opportunity to participate in the committee work of the Council through the Academic, Social and Intramural Committees and the Judicial Council.

The Men's and Women's Residence Hall Associations are the coordinating bodies for the activities and student governments of their respective halls. The associations consist of elected delegates from each of the respective residence halls. The groups serve as communications centers to educate, promote understanding, and to recommend policies and procedures which affect student life in the residence halls.

SERVICE ORGANIZATIONS

Alpha Phi Omega.

SPECIAL GROUPS

Association for Childhood Education, Association of International Students, University Council for United Nations, Cheerleaders, Concert Choir, Eastern Veterans Association, Marching Band, Orchestra, Off-Campus Independent Housing Association, Pink Panthers, College Democrats, College Republicans, Young Republicans.

CONSULTATIVE COUNCILS

All-University consultative councils: Instruction, Student Affairs.

Consultative councils replacing student-faculty boards: Health and Hospitalization, Music Activities, Speech Activities, Theatre Arts, Women's Recreation Association.

INTERFRATERNITY COUNCIL

The Interfraternity Council is composed of the presidents of the member fraternities and two elected representatives from each fraternity. The IFC aids in

establishing policies related to the entire fraternity system. It cooperates with the Panhellenic Council in planning cooperative Greek affairs on- and off-campus. The following fraternities are represented on Eastern's campus:

Alpha Kappa Lambda, Rho Chapter
 Beta Sigma Psi, Mu Chapter
 Delta Chi, Eastern Illinois University Chapter
 Delta Sigma Phi, Delta Psi Chapter
 Lambda Sigma Chi, Local Chapter
 Phi Sigma Epsilon, Delta Chapter
 Pi Kappa Alpha, Gamma Chapter
 Phi Beta Sigma, Delta Chi Chapter
 Sigma Pi, Beta Gamma Chapter
 Sigma Tau Gamma, Alpha Alpha Chapter
 Tau Kappa Epsilon, Gamma Omega Chapter

OTHER SOCIAL FRATERNITIES

Alpha Phi Alpha, Theta Nu Chapter
 Omega Psi Phi, Tau Theta Chapter

PANHELLENIC COUNCIL

The Panhellenic Council is composed of the presidents of the sororities and two elected representatives from each sorority. It deals with problems confronting the sororities, establishes rules for rushing, cooperates with the Interfraternity Council in planning all-Greek affairs on campus, and awards a cup each year to the sorority maintaining the highest academic standing for the preceding year. The following sororities are represented on Eastern's campus:

Alpha Gamma Delta, Beta Iota Chapter
 Alpha Sigma Alpha, Gamma Omega Chapter
 Delta Sigma Theta, Deltas, of Delta Sigma Theta
 Delta Zeta, Gamma Nu Chapter
 Kappa Delta, Delta Beta Chapter
 Sigma Gamma Rho, Gamma Beta Chapter
 Sigma Kappa, Gamma Mu Chapter
 Sigma Sigma Sigma, Alpha Psi Chapter

ASSOCIATION OF COLLEGE HONOR SOCIETY MEMBERS

Alpha Delta Sigma: Speech
 Delta Mu Delta, Tau Chapter: Business Administration
 Pi Omega Pi, Alpha Chi Chapter: Business Education
 Pi Sigma Alpha, Delta Psi Chapter: Political Science

OTHER HONORARY AND PROFESSIONAL SOCIETIES AND FRATERNITIES

Alpha Beta Alpha: Library Science
 Beta Beta Beta, Gamma Theta Chapter: Biological Science
 Delta Psi Kappa, Beta Xi Chapter: Women's Physical Education
 Delta Sigma Pi, Epsilon Omega Chapter: Business Administration
 Epsilon Pi Tau, Iota Chapter: Industrial Arts

Gamma Theta Upsilon, Rho Chapter: Geography
Kappa Delta Pi, Beta Psi Chapter: Education
Kappa Mu Epsilon, Illinois Beta Chapter: Mathematics
Kappa Omicron Phi, Alpha Theta Chapter: Home Economics
Phi Alpha Eta, Women's Scholastic Honorary.
Phi Beta Lambda, Iota Omicron Chapter: Business and Business Education
Phi Epsilon Kappa, Beta Zeta Chapter: Men's Physical Education
Phi Mu Alpha Sinfonia, Xi Upsilon Chapter: School of Music
Pi Delta Epsilon, Journalism
Pi Kappa Delta, Illinois Sigma Chapter: Forensics (Speech)
Psi Chi: Psychology
Sigma Alpha Iota, Epsilon Eta Chapter: School of Music
Sigma Eta Lambda, Speech

AUTOMOBILE REGISTRATION AND CONTROL

By definition, a motor vehicle, in addition to an automobile, shall include such conveyances as motor bikes, motor scooters, and motorcycles.

FRESHMAN-SOPHOMORE MOTOR VEHICLE REGULATION

No undergraduate student who has completed less than 90 quarter hours shall possess, park, or operate a motor vehicle on any University street, parking lot, or property beginning with registration day of each quarter and ending with the official date of closing each quarter. The regulation will not be enforced against students on the day they move into the halls nor the day they leave for vacations or quarter breaks. An exception to this regulation may be made for a freshman or sophomore student who is physically handicapped, or who resides with his or her parents in Charleston Township, or who can demonstrate a critical need for a motor vehicle because of employment or other circumstance.

A request for an exception to the above regulation should be addressed to Chairman, Freshman Motor Vehicle Regulation Committee, Student Services Building, Eastern Illinois University.

REGISTRATION OF VEHICLES

It is the responsibility of each student, employee, and faculty member who drives any motor vehicle on or around the campus to register the vehicle in the Security Office. Registration is free.

PARKING PERMITS

Application for a parking permit should be made at the Telephone and Security Building. A committee of faculty and students reviews all requests and makes assignments based upon such factors as distance, employment, and physical disability. The charge for the permit is \$10, \$5, or \$2 depending on lot assignment. A permit may be purchased on a quarterly basis.

UNIVERSITY TRAFFIC REGULATIONS

All state and community laws apply on campus. University parking regulations are in effect until 5:00 p.m. of the last day of examinations of each quarter. University holidays are excepted. Other regulations will be issued periodically by the Security Office.

TRAFFIC PENALTIES

1. **For Violations of Freshman-Sophomore Regulations.** A violator of the freshman-sophomore motor-vehicle regulation will be subject to a fine of \$50 for the first and second offenses and will be automatically suspended from the University for the third offense.
2. **For Failure to Report.** Failure to report any change which would affect parking privileges: \$5.00
3. **For Falsification of Registration.** Falsification of registration: \$10.00 and referral to University officials for disciplinary action.
4. **For Parking Violations:** For the first parking offense, \$1.00; for the second, \$5.00; for the third, \$10.00. The fourth parking offense will result in the loss of campus parking privileges for the remainder of the academic year plus an added penalty of \$10.00 and referral to University officials for disciplinary action.
5. **For Moving Violations:** For the first offense, \$5.00; for the second, \$10.00; for the third moving violation, \$15.00. The fourth offense will result in the loss of campus parking privileges for the remainder of the academic year. A violation of this measure will result in referral to University officials for disciplinary action.

Offenses shall be considered cumulative for any and all violations cited above for the period of the automobile registration.

TOWING

Motor vehicles parked in a University lot without a valid permit may be towed away without notice at the operator's expense.

BICYCLE REGISTRATION AND CONTROL

By definition, a bicycle shall mean any two-wheeled vehicle which is propelled by human power.

REGISTRATION

It is the responsibility of each student, employee, and faculty member operating a bicycle on the campus to register the bicycle in the Security Office. Registration and parking permits are free.

PENALTIES FOR VIOLATION AND NONCOMPLIANCE

Failure to comply with registration requirements—\$1; Failure to use bicycle in conformity with operational provisions—\$1; Violation of parking restrictions—\$1; Fourth offense—possible referral for disciplinary action.

III. STUDENT EXPENSES AND FINANCIAL AID

EXPENSES

APPLICATION FEE

A non-refundable charge of \$15 must accompany an application for admission as an undergraduate.

QUARTERLY FEES

All fees are subject to change at the end of any year by action of the Board of Governors of State Colleges and Universities. Fees for quarters listed below must be paid on or before registration day of each quarter. (A student who takes any combination of ten-week and eight-week courses will be regarded as a full-time quarter student for purposes of determining his fees.)

For Residents of Illinois Undergraduates

Full-Time Student: A student registered for nine or more quarter hours of work shall pay the following fees:

<i>Fee</i>	<i>Summer Qtr. 1971</i>	<i>Fall Quarter</i>	<i>Winter Quarter</i>	<i>Spring Quarter</i>	<i>Summer Qtr. 1972</i>
Registration Fee	\$10.00	\$235.00	\$165.00	\$130.00	\$10.00
Service Fee*	<u>\$53.75</u>	<u>\$53.75</u>	<u>\$53.75</u>	<u>\$53.75</u>	<u>\$53.75</u>
Total	\$63.75	\$288.75	\$218.75	\$183.75	\$63.75

Part-Time Student: A student registered for less than nine quarter hours of work, unless enrolled in the extension program, shall pay the following fees, per quarter hour.

* Components of Service Fee: Student Activity Fee--\$12; Bond Revenue Building Fee--\$19; Textbook Rental Fee--\$10; Health Insurance Fee--\$6.75; Grants-in-Aid Fee--\$4.00; Minority Student Fee--\$2.00.

** Components of Service Fee: Bond Revenue Building Fee--\$1.60; Textbook Rental Fee--\$.90; Grants-in-Aid Fee--\$.35; Minority Student Fee--\$.15. A part-time student may purchase a student activity ticket for the regular price of \$12. He is not permitted to purchase health and accident insurance.

<i>Fee</i> (<i>Per Quarter Hour</i>)	<i>Summer</i> <i>Qtr. 1971</i>	<i>Fall</i> <i>Quarter</i>	<i>Winter</i> <i>Quarter</i>	<i>Spring</i> <i>Quarter</i>	<i>Summer</i> <i>Qtr. 1972</i>
Registration Fee	\$1.00	\$19.50	\$13.75	\$10.75	\$1.00
Service Fee **	<u>3.00</u>	<u>3.00</u>	<u>3.00</u>	<u>3.00</u>	<u>3.00</u>
Total	\$4.00	\$22.50	\$16.75	\$13.75	\$4.00

For Residents of Illinois—Graduates

Full-Time Student: A student registered for nine or more quarter hours of work shall pay the following fees:

Fee Beginning Fall 1971

Registration Fee	\$140.00
Service Fee *	<u>53.75</u>
Total	\$193.75

Part-Time Student: A student registered for less than nine quarter hours of work, unless enrolled in the extension program, shall pay the following fees: Beginning Fall 1971

	<i>Per Quarter Hour</i>
Registration Fee	\$ 11.50
Service Fee**	<u>3.00</u>
Total	\$ 14.50

For Out-of-State Students

Full-Time Student: A student registered for nine or more quarter hours of work shall pay the following fees: Beginning Fall 1971

Registration Fee	\$422.00
Service Fee*	<u>53.75</u>
Total	\$475.75

Part-Time Student: A student registered for less than nine quarter hours of work, unless enrolled in the extension program, shall pay the following fees:

	<i>Per Quarter Hour</i>
Registration Fee	\$ 35.00
Service Fee**	<u>3.00</u>
Total	\$ 38.00

Non-resident of Illinois

A student under 21 years of age is considered a non-resident of Illinois and subject to payment of out-of-state registration fee unless the parents (or legal guardians) have a

* Components of Service Fee: Student Activity Fee--\$12; Bond Revenue Building Fee--\$19; Textbook Rental Fee--\$10; Health Insurance Fee--\$6.75; Grants-in-Aid Fee--\$4; Minority Student Fee--\$2.

** Components of Service Fee: Bond Revenue Building Fee--\$1.60; Textbook Rental Fee--\$.90; Grants-in-Aid Fee--\$.35; Minority Student Fee--\$.15. A part-time student may purchase a student activity ticket for the regular price of \$12. He is not permitted to purchase health and accident insurance.

permanent place of abode in Illinois of such nature as would qualify them to vote in Illinois. Students over 21 years of age are considered residents of Illinois only if they have established a bonafide residence in Illinois for a period of twelve months preceding registration and are residents at the time of registration. An exception is made in the case of a woman student either under or over the age of 21 who becomes an Illinois resident because of marriage to a man who is a legal resident. An immediately discharged veteran, who became 21 years of age while in military service, may declare Illinois his residence if Illinois is his first choice of residence after discharge and if he declares his intent to vote in Illinois and applies to do so.

SUMMER GRADUATE TERM FEES 1971

Fees described below are payable on or before registration day for the eight-week summer graduate term:

For Residents of Illinois

Full-Time Student: A graduate student taking eight quarter hours or more shall pay the following fees

Registration Fee	\$86.25
Service Fee*	40.25
Total	<u>\$126.50</u>

Part-Time Student: A graduate student taking less than eight quarter hours of work shall pay the following fees:

	<i>Per Quarter Hour</i>
Registration Fee	\$10.75
Service Fee**	3.25
Total	<u>\$14.00</u>

For Out-of-State Students (See earlier definition of out-of-state student)

Full-Time Student: A graduate student taking eight quarter hours or more shall pay the following fees

Registration Fee	\$261.00
Service Fee*	40.25
Total	<u>\$301.25</u>

Part-Time Student: A graduate student taking less than eight quarter hours of work shall pay the following fees:

	<i>Per Quarter Hour</i>
Registration Fee	\$32.50
Service Fee**	3.25
Total	<u>\$35.75</u>

NSF INSTITUTE -- Eight Weeks

Activity Fee	\$ 9.00
Bond Revenue Building Fee	10.75
Health Insurance Fee	5.00
Total	<u>\$ 24.75</u>

* Student Activity Fee--\$9; Bond Revenue Building Fee--\$14.25; Textbook Rental Fee--\$7.50; Health Insurance Fee--\$5; Grants-in-Aid Fee--\$3; Minority Student Fee--\$1.50.

** Bond Revenue Building Fee--\$1.80; Textbook Rental Fee--\$.95; Grants-in-Aid Fee--\$.35; Minority Student Fee--\$.15.

EXTENSION FEES

Extension fees are \$16.00 per quarter hour with an additional charge of \$3.00 per course for textbook rental. When textbooks cannot be supplied by the University Textbook Library, the rental fee is waived and the members of the class must buy their own books.

MISCELLANEOUS FEES AND CHARGES

Late Registration Fee. An extra fee of \$10 is charged to a student who registers after the registration dates shown in the catalog or who fails to pay all fees on registration day. This fee is non-refundable. No registrations are accepted after the sixth calendar day following the first day of classes.

Residual Testing Fee. Students applying for admission must furnish test scores from the American College Testing Program (ACT). Students failing to provide such test scores will be required to take the test residually on campus. The testing fee is \$10.

Graduation Fee. Candidates for graduation must make application for graduation at the Records Office and pay the graduation fee at the Business Office. Beginning Fall 1971 the fee of \$20 for graduate degree candidates and \$15 for undergraduate degree candidates includes the cost of cap and gown rental. The last day for applying for graduation for a particular quarter is registration day of that quarter.

Transcript Fee. The University will furnish one transcript of the academic record of a student when requested to do so. A fee of \$1 will be charged for each transcript issued after the first one. An additional 50 cents fee will be charged for each extra copy of the transcript prepared at the same time. Transcripts will be issued only for students whose university records are clear.

General Library Service Fee. All library materials must be returned and records cleared by the end of each quarter. Lost or mutilated materials must be paid for. Special fines are assessed for failure to observe library regulations, and a service charge of not less than \$1 is added for failure to clear records at the end of the quarter. In addition, students who fail to clear library records are denied library privileges.

Textbook Library Fee. A fee of \$1 per book is charged if the student's record in the Textbook Library is not clear by noon following the last day of the quarter. The cost of a damaged or lost book is also charged. Damage to a book includes underscoring, highlighting, annotating, adding other marginalia, etc.

Chemistry Breakage Ticket. A deposit of \$3 is required for a breakage fee in all laboratory courses in chemistry. Refund is made of the amount not used for actual breakage after the locker is checked out.

Lock Purchases. Padlocks for lockers used in physical education must be purchased at the University Union. The cost per lock is \$2.45.

Charges for Materials. Fees are paid for materials used in certain courses in art, education, and industrial arts. Completed projects are the property of the student. The foregoing statement applies to all art courses, Education 488 and 522, and elective projects in industrial arts courses numbered 323, 308, 409, and 447.

RESIDENCE HALL CHARGES

Housing Security Deposit. A housing security deposit of \$25 must accompany an application for accommodation in the University residence halls. The deposit will be held by the University as security for payment for any loss of or damage to University property and the non-fulfillment of the contract. The deposit will be refunded upon request according to the terms of the contract.

Board and Room Charges. During 1971-72, charge for board and room in University residence halls will be \$350 for the Fall and Winter Quarters and \$310 for the Spring Quarter, if paid in full in one payment, or \$2 more per quarter if paid in installments on dates set by the University. Failure to make the advance payment

for any quarter could result in the cancellation of the residence hall contract. This payment includes a room telephone; Sunday evening meals and meals during vacation periods are not included.

Charges for board and room during the summer of 1971 are as follows:

Undergraduate Quarter, June 7 to August 13, \$210.00.

Graduate Term, June 21 to August 13, \$168.00.

For workshops, institutes, clinics, camps or conferences of less than eight or ten weeks the charge will be made at the weekly or daily rate of:

University groups, \$2.55 per day or \$10.50 per week.

Non-University groups, \$3.00 per day or \$21.00 per week.

Board will be provided by Union Food Service by contract.

With the exception of the summer quarter, it is understood that a student engages a room for the entire University academic year (September through May) unless he has an off-campus assignment (teaching or internship) or unless he completes the requirements for graduation before the end of the year. Waivers will be granted by the Dean, Student Housing, in these instances.

Most rooms are designed for double occupancy: Four- and six-person suites are available in the Adlai E. Stevenson Memorial Tower. Details concerning residence hall occupancy and installment payments are found in the residence hall contract or are available from the Office of the Dean, Student Housing.

The University reserves the right to increase residence hall rates, if necessary, at the beginning of an academic year with the understanding that at least sixty days notice will be given prior to the opening of the year in which the increase takes effect.

Late Payment Fee. A fee of \$5 is charged if a residence hall payment is not paid on the dates set by the University unless special permission is granted by the residence hall counselor.

OFFICIAL RECEIPTS

Official receipts for fees must be preserved by the student during the quarter involved. A fee of \$1 will be charged for any duplicate official receipt obtained from the cashier.

REFUNDS

WITHDRAWAL

Regular. If a student withdraws from the University during a quarter by completing the procedure described in Section V and if the initiation and completion of the withdrawal is made through the office of the Assistant Dean, General Services, during the first ten calendar days following the first day of classes for the quarter, the Registration Fee will be refunded upon request. There will be no refund of the Service Fee. If the withdrawal is initiated at a later date, there is no refund of any fees. The official receipt must accompany the request for refund.

Summer Eight Week Graduate Term. During the eight-week graduate term the withdrawal must be initiated and completed during the first five calendar days following the first day of classes in order to have the Registration Fee refunded.

Military Duty. A student called for active duty or induction into the Armed Forces prior to the 36th calendar day following the first day of classes (excluding the Christmas break) will be given a refund of Registration Fee but not the Service Fee.

PRE-REGISTRATION

Non-Enrollment. If a student pre-registers and pays his fees prior to the regular registration date for the quarter but does not appear for classes, all fees will be

refunded if notice has been given in writing to the Assistant Dean, Registration, five calendar days prior to the announced day of registration. If such notice is not given within the prescribed period but is given during the first ten calendar days following the first day of classes for the quarter, only the Registration Fee will be refunded.

Change in Load. Upon request, a student who pays full registration fees and reduces his load to that of a part-time student during the first ten calendar days following the first day of classes will be refunded the difference between his Registration Fee and the course fee for those courses constituting his part-time load; there will be no refund of the Service Fee.

DENIED ADMISSION

If a student pre-registers and pays his fees prior to the regular registration date but is subsequently denied admission to the University, all fees will be refunded.

BOARD AND ROOM

Refund of the advance payment for any quarter will be made upon receipt of a written request addressed to the Dean, Student Housing, and postmarked on or before the advance payment date for that particular quarter. Advance payments are refunded if the student is not admitted to the University or if the student is dismissed for academic reasons.

Room rent is *not* refundable, except for reasons stated in the Residence Hall Contract. A student who withdraws during a quarter will be charged room rent for the quarter, unless the residence halls are filled beyond normal capacity. Board is refunded from the end of the week in which the student leaves the residence hall and the University.

Refunds of the \$25 Housing Security Deposit are governed by the terms of the Residence Hall Contract.

FINANCIAL AIDS

STATE SCHOLARSHIPS

Holders of state scholarships listed below are exempt from payment of the registration fee, activity fee, and graduation fee. They are required to pay the bond revenue building fee, textbook rental fee, health insurance fee, minority student fee, and grants-in-aid fee. They must also pay fees and charges for supplies and materials assessed in certain courses. Most holders of monetary scholarships and grants administered by the Illinois State Scholarship Commission are exempt from payment of the registration fees and all service fees. They, too, are obligated to pay fees assessed for certain courses, any charges for supplies and materials, and the graduation fee.

The holders of these scholarships must meet the admissions requirements of the University. The scholarship (with the exception of the Military Scholarship) is forfeited if the holder is not enrolled within five calendar days after the opening of the school term or if he withdraws from the University. Holders of these scholarships (with the exception of the Illinois State Scholarship Commission awards) may be granted a leave of absence not to exceed two years because of illness, the necessity of earning funds to defray expenses while in school, or military service. Applicants for a leave of absence on an Illinois State Scholarship Commission award should write directly to the scholarship commission. An application for leave of absence on a Military Scholarship must be made to the Director of Veterans Services. All other leave applications must be made to the Director of Financial Aids.

Full state scholarships are valid for four calendar years, thus permitting use of the scholarship for graduate study if students have accelerated their undergraduate program by attending summer school. In some cases students are awarded the balance of partially used scholarships. All state scholarships (with the exception of the Military Scholarship) must be filed with the Office of Financial Aids to be valid. Military Scholarships must be registered with the Director of Veterans Services to be valid for use.

Teacher Education Scholarships. In order to be eligible for this scholarship, a student must rank in the upper one-half of his graduating class and agree to two conditions: (1) to furnish proof to the Office of the Superintendent of Public Instruction that he is pursuing and continues to pursue a teacher education curriculum and (2) to teach two of the three years immediately following graduation or termination of enrollment in a teacher education program; this teaching must be in any recognized public, private, or parochial school in the State of Illinois. If a recipient of this scholarship defaults, it will be his obligation to repay the State the total amount waived while under the scholarship program and a 5% interest charge per year on this amount. The high school principal certifies to the Superintendent of the County Educational Service Region each year before March 1 the name and address of each student entitled to receive this scholarship. The County Superintendent then certifies to the Superintendent of Public Instruction the names and addresses of students submitted by the high school principals. The scholarship is issued by the Superintendent of Public Instruction.

Other specialized teacher education scholarships are as follows: Junior College Graduate, issued by junior colleges to their graduates who continue their education; General Educational Development, issued by the Superintendent of the County Educational Service Region to students who rank in their G.E.D. qualifying test for a high school diploma; Special Education, issued by the Superintendent of the County Educational Service Region, to students enrolling or enrolled in a Special Education curriculum; Adult Education, initiated through the County Superintendent and issued by the State Superintendent of Public Instruction to adults 21 years or more of age who desire to complete work for an undergraduate degree in education. The special conditions governing Teacher Education Scholarships also apply to these specialized Teacher Education Scholarships.

Military Scholarship. See Section on *VETERANS' BENEFITS*.

General Assembly Scholarship. Each member of the General Assembly may nominate annually from his district two persons, one of whom shall receive a scholarship to the University of Illinois and the other a scholarship to any other state-supported university designated by the member. Application is made directly to the legislator who makes the appointment through the Office of the State Superintendent of Public Instruction.

County Scholarship. This scholarship award is made by the County Scholarship Committee of Illinois. High school seniors must indicate that they wish to enter competition for this award in their county at the time they take the American College Testing Examination.

Illinois State Scholarship Commission Scholarships and Grants. In general, the eligibility of an applicant is determined on the basis of (1) his high school academic record, (2) the results of a competitive examination to be conducted by the Commission at an appropriate time during each fiscal year, and (3) financial need. The scholarship is renewable by the Commission annually without further competitive examinations for a total of three academic years or until such earlier time as the student receives a degree normally obtained in four academic years. The grant is based on financial need only. For the monetary value of these awards, see section on State Scholarships. For more information, inquiries may be directed to: Illinois State Scholarship Commission, 730 Waukegan Road, Deerfield, Illinois, 60015.

UNIVERSITY AWARDS

Talented Student Awards. Established by the Board of Governors of State Colleges and Universities to encourage the development of unique student talents. Tuition (registration fees) is waived for students receiving the awards. The awards go primarily to incoming new students who give promise of unique talents in art, athletics, forensics, music, broadcasting, and student publications. Nominations for the awards are made by department heads and faculty advisors.

Grants-in-Aid. Eastern offers in excess of 100 grants-in-aid annually to students who show promise or demonstrate a talent in fields which require public presentation of that talent. Among these fields are art, athletics, debate, journalism, music, and women's physical education. Approved by the Board of Governors of State Colleges and Universities, the talent scholarship program is financed through a student grants-in-aid fee.

Foreign Student Scholarship. Established by the Board of Governors of State Colleges and Universities, the award is made to foreign students based on scholastic achievement, academic promise, personal character, and financial need. The registration fee and out-of-state fee are waived for a student receiving the scholarship. Selection of the recipients is made by the Foreign Student Scholarship Committee.

Disadvantaged Student Scholarship. Established by the Board of Governors of State Colleges and Universities to encourage students from low income families to apply for admission to Eastern. The application and registration fees are waived for a student receiving the scholarship. Approval is granted by the Director of Financial Aids.

Minority Student Scholarship. Administered by the Director of Financial Aids from funds derived from the Minority Student Fee paid by each student as part of his enrollment costs. Basis of award: demonstrated financial need and minority membership.

SPECIAL AWARDS

Achievement Fund Scholarship Award. Established in 1965 to provide financial assistance to outstanding students. The award presently goes each year to one or more students who have attained at least sophomore standing and who need at least one more year of study to receive a bachelor's degree. Selection of the recipient, including the determination of financial need, is made by the Financial Grants Committee.

Alexander Briggs Memorial Award. Established by Miss Margaret Briggs in memory of her father, Alexander Briggs, the contractor who completed the L. C. Lord Administration Building. The award is made annually to a business major who has completed at least one year of college work with not less than a B average and who is selected by the faculty of the School of Business on the basis of outstanding personal character and interest in the field of business and business education.

Business Alumni Award. Established by the alumni of the School of Business. It is made annually to a junior business major whose personal character, scholastic achievement, and interest in the fields of business and education promise service of distinction in the field of business education. Selection is made by the faculty of the School of Business.

Thomas R. Drury Scholarship. Established in memory of Thomas R. Drury, an alumnus of Eastern. The award is presented annually to a student admitted to Eastern's Graduate School and who plans to pursue a career in educational media. The selection committee is composed of representatives of the Faculty of Education, Audio-Visual Services, and the Illinois Audio-Visual Association.

G. B. Dudley Award. Established by Tilford Dudley in memory of his father who was closely associated with the University. The fund makes a minimum of \$200 available each spring for awards to outstanding students in the fundamental sciences:

botany, chemistry, physics, and zoology. The recipients are chosen by the heads of these four departments.

Leo J. Dvorak Memorial Award. Established in memory of Dr. Leo J. Dvorak, late Director of the School of Music. The award is presented to a junior music major who shows promise of becoming an outstanding teacher in public school music. Selection of the recipient is made by the faculty of the School of Music.

Ann Frommel Memorial Award. A scholarship for outstanding students in botany, zoology, and chemistry, established by Mr. and Mrs. Albert E. Frommel, Charleston, Illinois, in memory of their daughter. The award is made to an outstanding student who has completed at least his freshman year of college work and has maintained at least a B average in all academic subjects.

Thomas A. Grud Scholarship. Established by the family and friends of the late Thomas A. Grud who was killed in Vietnam on Christmas Day, 1967. The award goes annually to a male student who is earning a portion of his college expenses but who is in need of additional financial assistance.

Hobart F. Heller Scholarship. Established in honor of Dr. Hobart F. Heller, Vice President for Instruction and a member of the Eastern faculty for 36 years, who retired in 1967. The award will go annually to a student who, by reason of scholarship, responsible character, sense of purpose, growth, and service to the University community during his first three years, gives promise of a life of distinguished service and leadership. Selection of the recipient is made by a committee headed by the Dean, Student Personnel Services.

Illinois Congress of Parents and Teachers Scholarships. The Illinois Congress of Parents and Teachers supplies funds each year for scholarships which are awarded to selected students. The qualifications for eligibility are high scholastic standing, good health, and the need of financial aid. The applicant must also signify intention to teach. Application for the scholarship is made to the Director of Financial Aids after a "Parents' Confidential Statement" has been submitted to the College Scholarship Services.

Bobbie King Memorial Scholarship. Established in 1966 by Mr. and Mrs. Karl King of Charleston, Illinois, in memory of their daughter. The award will go annually to a junior or senior demonstrating outstanding achievement in the study of foreign languages.

Martin Luther King, Jr., Scholarship. Established by the Eastern Illinois Chapter of the American Association of University Professors in memory of Dr. Martin Luther King, Jr. The award goes annually to one or more Eastern students who are "living examples of the ideals and values expressed by Martin Luther King."

Charles P. Lantz Scholarship. Established in memory of Dr. Charles P. Lantz, Director of Athletics at Eastern from 1911 to 1952. The award is made annually to one or more persons who will be seniors the following year, who have demonstrated outstanding athletic achievement, who have shown evidence of leadership qualities, and who have demonstrated above-average scholastic ability.

Livingston C. Lord Memorial Scholarship. Established by the Alumni Association of the University in memory of Livingston C. Lord, who served as president, 1899-1933. It is the University's highest award for scholarship.

The scholarships are awarded annually at commencement to one or more junior or senior students. The student's character, scholarship, and skill in teaching must promise service of distinction in the field of education.

Florence McAfee Scholarship. Established by faculty and alumnae in memory of Florence McAfee, Head of the Department of Physical Education for Women from 1924 to 1962. The award goes annually to the third quarter sophomore or junior woman physical education major who demonstrates the qualities of scholarship, leadership, and professional excellence as exemplified by Dr. McAfee. Selection of the recipient is made by a committee from the Department of Physical Education for Women.

Isabel McKinney Scholarship. Established in memory of Isabel McKinney, head of Eastern's Department of English from 1922 to 1945. The award goes annually to a person who has demonstrated high scholastic achievement and has the qualifications to enroll in the English graduate program at Eastern. Selection of the recipients is made by the Scholarship Committee of the Department of English.

Louise C. Miller Scholarship. Established through the School of Music in honor of the late Miss Louise C. Miller, a singing teacher for many years in the Chicago public school system, the award goes annually to a deserving student of music.

Raymond L. Modesitt Mathematics Scholarship. A scholarship established by the wife and daughter of the late Mr. Modesitt, a member of the Eastern mathematics faculty from 1912 to 1927. The \$500 award goes annually to a junior or senior in mathematics.

Winnie Davis Neely Memorial Award. Established by Sigma Tau Delta, national professional English fraternity, in memory of Winnie Davis Neely, a member of the English Department, 1934-1952. An award is made annually to the university student who submits the best manuscript in the literary contest sponsored by the student literary publication and Sigma Tau Delta.

Estelle Ruth O'Brien Memorial Mathematics Scholarship. Established in 1967 by Dr. Maynard O'Brien and his son in memory of their late wife and mother, Estelle Ruth O'Brien. Mrs. O'Brien was a mathematics teacher in the public schools. The award will go annually to a mathematics major enrolled at Eastern or to a high school graduate who has expressed in writing an intent to enroll as a mathematics major at Eastern. A committee of mathematics faculty will select the recipients.

Emma Reinhardt Award. Established in 1962 by members of Beta Psi Chapter of Kappa Delta Pi in recognition of the contributions of service, guidance, and leadership of Dr. Emma Reinhardt, counselor to the chapter for thirty-one years. The award is made annually to the highest ranking junior pursuing the degree of Bachelor of Science in Education.

Paul Turner Sargent Scholarship Award. Established by the family and friends of the late Paul Turner Sargent, nationally known artist and a 1906 Eastern graduate. The award is made to an art major or minor who has completed at least eighty quarter hours of course credit.

Mr. and Mrs. William Craig Simmons Memorial Award. Established by members of the Simmons family, the award is made annually to a junior business major on the basis of outstanding personal character, scholastic achievement, and interest in the fields of business and business education. Selection is made by faculty members of the School of Business.

Kate Booker Stapp Scholarship. Available to women students in teaching curricula who are widows (or whose husbands are incapacitated) with at least one child under the age of eighteen. The fund was established in 1948 by a gift of \$400 from Miss Helen Stapp in honor of her mother. Applications are made to the Director of Financial Aids.

Ernest L. Stover Scholarship. Established in honor of Dr. Ernest L. Stover, former head of the Department of Botany. The award goes annually to a botany major of junior or senior classification who has demonstrated scholastic achievement and shows promise as a teacher or research person. Selection of the recipients is made by Department of Botany committee.

Edson H. Taylor Award. Established in honor of Dr. E. H. Taylor, professor of mathematics at Eastern from 1899 to 1945. It is awarded annually to a junior or senior who is majoring in mathematics. The recipient of this award is chosen by the faculty of the Mathematics Department on the basis of excellence of scholarship in mathematics.

Annie L. Weller Award. Established in memory of Miss Annie L. Weller, late Head of the Geography Department. The award is made annually to a graduating senior planning to pursue graduate study prior to a career in teaching. Eligible candidates must be majoring in the humanities, social sciences, or natural sciences and must have demonstrated superior scholarship ability.

Howard DeForest Widger Award. Granted annually by the Alumni Association to a senior English major selected by the faculty members of the English Department. The award is given for outstanding personal character and scholastic achievement in the field of English.

LOANS

The Adelia Carothers Fund. This fund was established by the late Mrs. Ida Carothers Merriam and Mr. Charles G. Carothers in memory of their mother. This fund is to be loaned to young women students of high character and scholarship during their junior and senior year. The interest rate is two per cent during enrollment. At termination of enrollment the rate increases to six per cent. The fund is administered by the Dean, Student Personnel Services.

Elementary and Junior High School Student Teaching Loan Fund. This loan fund was established with funds contributed by students of Eastern State High School during World War II. Loans up to \$100 may be made to students who need the funds during their student teaching quarter. No interest is charged when payment is made within one year. Application must be made to the Dean, Faculty of Education.

Emergency Loan Fund. The amount of an Emergency Loan is limited to \$100 for a maximum period of ninety days. No interest will be charged. To be eligible, a student must be in residence at the University at least one quarter and be in good standing.

Illinois Congress of Parents and Teachers Loan Fund. In September of 1954 the Illinois Congress of Parents and Teachers established a loan fund of \$1,000. Loans from this fund on either a short or long-term basis may be secured by an eligible student who is in training for the teaching profession. No interest will be charged if the money is repaid within one year of termination of enrollment. Interest then begins at three per cent. Students should contact the office of Financial Aids for application forms.

Illinois Guaranteed Loan Program. The Illinois General Assembly has authorized an Illinois loan program to guarantee student loans made by commercial lenders.

An eligible student who has been accepted for enrollment in college may borrow from a minimum of \$300 to the maximum amounts stated below. There is no age restriction; a minor is eligible to enter into a loan contract and to assume the responsibility for his own indebtedness. Payment must begin no less than nine months after the student either graduates or ceases full-time study.

Maximum Loan Amounts

Freshman year	\$1,000
Sophomore year	1,500
Junior year	1,500
Senior year	1,500
First-year graduate study	1,500

Application forms and additional information about this program are available from participating lending institutions (banks, building and loan associations, and credit unions).

The Florence McAfee Loan Fund. Physical education majors and minors, alumnae, and staff established this fund in honor of Dr. Florence McAfee. Any woman student, either majoring or minoring in physical education, is eligible to borrow from the fund. When need arises, students should contact a member of the Women's Physical Education staff.

National Defense Student Loan Fund. The National Defense Student Loan program was established by Congress in 1958. Eastern Illinois University has been accepted as a participant in the program. Loans will be provided students in accordance with federal recommendations and regulations.

To be eligible, the student must show a genuine need for the loan, he must be enrolled as a full-time student or half-time student, and he must meet the academic and social standards set by the University.

The amount of the loan will be determined by the University on the basis of availability of funds and the student's financial need. Application blanks should be obtained from the Director of Financial Aids.

The Russell Loan Fund. This fund was established by the family and friends of Mrs. W. L. Russell to provide loans for needy women students. The fund is administered by the Dean, Student Personnel Services.

University Loan Fund. To be eligible for a University Loan a student must be of at least sophomore standing with an academic average of at least C. The primary need for the loan should be to remain in school. Only full-time students are eligible.

No student may borrow more than \$300 in his sophomore year, \$300 in his junior year, or \$600 in his senior year; the total owed at any one time shall not exceed \$600. The interest rate is two per cent during enrollment. At termination of enrollment, the rate increases to six per cent.

The will of the late Dr. W. D. Morgan of Charleston gives to the Student Loan Fund the annual income from approximately \$6,000. An additional amount will be received at the death of certain heirs.

In 1934 there was left to the University by the will of the late John L. Whisnand of Charleston a portion of his estate as an endowment, the income from the endowment to be available for financial assistance to deserving students. The amount is in trust with the Charleston National Bank.

VETERANS BENEFITS

The Veterans Act of 1966, Public Law 358, provides educational benefits to veterans who have completed 181 days or more of federal active duty (six-month enlistees are not eligible) terminating with an honorable discharge on or after February 1, 1955. The law provides one-and-one-half months benefits per month of service up to eighteen months. A veteran with eighteen or more months of service will receive the maximum of thirty-six months. Minimum monthly benefits are \$175 for a full-time student. Applications are processed by the Office of Assistant Dean, Veterans Services.

Public Law 634. War Orphans may receive training under Public Law 634. Minimum monthly benefits are \$175 for full-time students.

Public Law 815. Veterans with 30% or more disability are eligible for training under Public Law 815 with special disability benefits. Minimum monthly benefits are \$137 for full-time students in addition to payment of all fees and reasonable amount of supplies.

Widows of veterans who died as a result of service and wives of totally disabled (service incurred) veterans are eligible for their husbands' educational benefits.

VA 21-674. All students eligible for this program must make application through their local Veterans Commission office. They are to bring the necessary forms to the Office of the Assistant Dean, Veterans Services.

Military Scholarship. Any person who served in the armed forces of the United States after September 16, 1940, who at the time of entering such service was a resident of Illinois and has been honorably discharged, may be awarded a scholarship provided he has the required period of service. A veteran discharged after August 22, 1967, must have a minimum of one year's active service. If discharged prior to this date, he needs only an honorable separation from service. Application should be made by filing a photostatic copy of the discharge or separation papers with the Office of Assistant Dean, Veterans Services. This scholarship may be used concurrently with the GI Bill.

Once initiated, the Military Scholarship runs continuously for four years and automatically terminates at that time unless an extension up to two years is granted under special conditions.

Military Scholarships must be registered with the Office of Assistant Dean, Veterans Services to be valid for use.

ILLINOIS ORPHANS EDUCATION ACT

The Illinois Educational Benefits Act provides financial aid for children of certain deceased veterans and children of veterans who are totally and permanently disabled from a service-connected disability. Qualified students, ages 10 to 18, may receive up to \$150 and those from 18 to 23 may receive up to \$175 per month with which to defray expenses. Application blanks and additional information may be obtained from the Department of Registration and Education, Springfield, Illinois, or from the Illinois Veterans' Commission, 1000 Broadway, Mattoon, Illinois, 61938.

FEDERAL EDUCATIONAL OPPORTUNITY GRANTS

Federal grants, under the provisions of the Higher Education Act of 1965, are available to students from low-income families. The availability of funds dictates the number of students assisted. Application blanks for financial aid should be obtained from the Director of Financial Aids.

STATE REHABILITATION PROGRAM

The University cooperates with the Illinois Division of Vocational Rehabilitation. The purpose of this program is to provide rehabilitative services to those individuals who have a physical disability or psychological malfunction which interferes with their vocational objective. Information concerning this program can be obtained at the Counseling Center, the local office of the Division of Vocational Rehabilitation (412-416 North 19th Street, Mattoon, Illinois, 61938), or the student's home area DVR office.

STUDENT EMPLOYMENT

See Section II.

COLLEGE WORK-STUDY PROGRAM.

In addition to the regular student employment program, Eastern Illinois University has the Federal College Work-Study Program available to those students who demonstrate sufficient financial need. There are approximately 210 approved positions in departments and administrative offices. Write to the Director of Financial Aids for information.



IV. ADMISSION, READMISSION, REGISTRATION AND ADVISEMENT

ADMISSION

Policies

The general policy of the University is to admit during the regular academic year those students who rank in the upper fifty per cent of their high school class and who achieve satisfactory admission test scores, insofar as facilities permit. Applicants who wish to attend the University are encouraged to include the following in their high school preparatory program:

English: Four years study.

Mathematics: Two years of algebra and one year geometry.

History and Social Studies: Two years of study, including one year of U.S. history.

Foreign Languages: Two years of study in the same language.

Science: Two years study, including one year of a biological and one year of a physical science.

The following general policies apply for admission, beginning with the Fall Quarter, 1971. The University may announce appropriate changes in closing date when applicants exceed the number of students who can be accommodated.

BEGINNING FRESHMEN

Any Quarter: A high school graduate who ranks in the upper twenty-five per cent of his high school class, based upon completion of six or more semesters, is granted immediate acceptance prior to deadlines appropriate to that quarter, upon completion of his application and payment of the required non-refundable application fee.

Fall Quarter: A student who ranks in the upper forty per cent of his high school class, based on six or more semesters of work, and who submits a completed application with the required non-refundable application fee before March 1, 1971, will be notified of his acceptance immediately. Others who have completed applications and paid the required fee at this point will be notified of deferral or non-acceptance.

A student who ranks in the upper half of his high school class, and who submits a completed application with the required non-refundable application fee by March 1, 1971, will be notified of his acceptance or deferral by April 1. Others who have completed applications and paid the required fee at this point will be notified of deferral or non-acceptance.

Closing dates for receiving completed applications for fall quarter will be announced in the public press, depending on the date capacity is reached.

Winter and Spring Quarters: A student who ranks in the upper half of his high school class, and who submits a completed application with the required non-refundable fee before the deadline dates, may be considered.

Deadlines for completed applications:

Winter Quarter, 1971-72: November 1, 1971.

Spring Quarter, 1972: February 15, 1972.

Earlier dates may be announced in the public press if capacity is reached before the dates indicated.

Note: Subject to capacity, a limited number of students ranking below the 50th percentile in their high school class and above the 40th percentile will be admitted in any quarter except the fall quarter if they have an ACT composite standard score of 21 or over. Also, high school graduates out of school one year or more and who have not attended college will be admitted in any quarter, but those ranking in the lowest one-third of their high school class will be admitted on final probation.

Summer Quarter: Applicants will be considered for admission regardless of rank in high school class and achievement on admission test scores. However, a student who ranks in the lowest one-third of his high school class will be admitted only on final probation and must (1) register for a minimum of twelve quarter hours and remain registered for a minimum of twelve quarter hours and (2) must satisfy retention requirements in order to continue in the fall quarter. All applicants for the summer quarter must submit completed applications with the required non-refundable application fee by May 31, 1971.

OUT-OF-STATE FRESHMAN APPLICANTS

Out-of-state applicants must meet the same admissions requirements as those which must be met by Illinois high school students.

TRANSFER STUDENTS

A student who has attended a junior college or another senior college, who has maintained a "C" average in his college work, and who would have met the beginning freshman admission requirements of the University for a particular quarter, may apply for transfer to the University at that particular quarter. Other students may apply for transfer at any quarter after completion of 82 quarter hours (55 semester hours) at a junior or senior college with a "C" average, except that students who rank in the upper ten per cent at the end of one semester or the upper twenty-five per cent after one year of junior college or senior college work may apply for transfer at that time. Transfer students must submit completed applications with the required non-refundable application fee at least one month before the beginning of the quarter in which they wish to enroll. An earlier closing date may be announced in the public press.

Generally, junior college transfers who expect to enter the University at the junior level should have completed, at the junior college 60 semester or 90 quarter hours to include the following:

Three quarters or two semesters of college English.

Three quarters or two semesters of a laboratory science.

One quarter or one semester of speech.

Six quarters or four semesters of physical education.

One quarter or one semester of health education.

One quarter or one semester of college mathematics.

Three quarters or two semesters of history, political science, economics, psychology, or sociology.

Three quarters or two semesters of art, music, literature, philosophy, theatre arts, or foreign languages.

Transfer Students on Probation: Transfer applicants who are on probation in any institution previously attended, or would be on probation or final probation according to regulations of Eastern Illinois University, may be considered for any quarter except the fall quarter; their admission status will be defined by the Committee on Admissions.

Transfer Students Who Have Been Dismissed for Low Scholarship: Transfer applicants who have been dismissed for low scholarship from any institution of higher education, or who would have been dismissed for low scholarship according to regulations of Eastern Illinois University, must remain out of school for at least one quarter; admission may not be granted in the fall quarter. Students in this category will be admitted only by the Committee on Admissions.

SPECIAL STUDENTS

High School Students: Students who have completed the junior year in a recognized high school, who have fourteen units, who rank in the upper twenty-five per cent of their high school class, and who have the recommendation of their principal may apply to take not more than two courses during the summer quarter preceding their senior year in high school and not more than one course in a regular quarter during their senior high school year. Credits which the student earns under this arrangement are held in escrow and later applied toward graduation at Eastern Illinois University. Students are cautioned that such credit may not be acceptable to, or transferable to, other educational institutions.

Non-graduates of High School: Residents of Illinois who are not high school graduates but who are at least twenty-one years old may be admitted as special students to take such undergraduate courses as they may be qualified to study, but they may not be considered candidates for a degree or diploma. Special students may become candidates for a degree by passing the General Education Development Test and obtaining a High School Equivalency Certificate; in this case, only those college courses taken after passing the examination may be counted toward graduation.

Guest Students: Students who have attended other colleges or universities and who wish to attend a single quarter as a guest student should correspond directly with the Office of Admissions for special instructions and application forms.

FOREIGN STUDENTS

Students from areas other than the United States may be admitted by Committee on Admissions action only.

Students whose native language is not English or whose college preparatory work has been done in non-English speaking schools, must present scores on the Test of English as a Foreign Language, administered by the College Entrance Examination Board and the Educational Testing Service. The admission requirement is a minimum score of 450 on the TOEFL.

GRADUATE STUDENTS

See Section VIII. Graduate Study.

Procedures For Applying For Admission

New freshmen applicants should be especially careful and prompt in submitting materials relative to applying for admission to the University. The procedure for admission is as follows:

1. Obtain an application for admission after the fifth semester of high school from:
Director of Admissions
Eastern Illinois University
Charleston, Illinois, 61920
2. Complete Parts I and II of the application form and give it to the high school principal or guidance counselor. He will complete the form and return it to the University *after the sixth semester rank is available*.
3. Have a health examination by the family doctor. He will complete the health form, which should then be returned directly to the Director of Health Services.
4. Send the non-refundable fee of \$15 by check or money order made payable to Eastern Illinois University along with the admission fee data card to: Cashier, Business Office, Eastern Illinois University, Charleston, Illinois, 61920.
5. Each student applying for admission must submit scores from the American College Testing Program (ACT). Complete information concerning the ACT may be obtained from the high school guidance counselor or principal. It is strongly recommended that this test be taken during the junior year in high school for applicants who desire early notification of acceptance. All test results should be forwarded directly from the testing agency. Scores forwarded from the high school are not acceptable.
6. Students whose native language is not English or whose college preparatory work has been done in non-English speaking schools, must present scores on the Test of English as a Foreign Language, administered by the College Entrance Examination Board and the Educational Testing Service. The admission requirement is a minimum score of 450 of the TOEFL.

Transfer students must file an application for admission and must request the institution or institutions previously attended to forward to the Admissions Office transcripts that include all courses attempted and completed. The request for a transcript should include a request to transmit scores on entrance examination tests. Transfer applicants are required to furnish test scores for the American College Test (ACT).

In addition, prior to consideration, a transfer student not in good standing at his previous institution or institutions must submit a letter to the Admissions Office in which he discusses the reasons for his poor academic record and explains why he believes he is capable of success at this University.

Graduate students should see Section VIII on Graduate Degree Programs.

An Official Permit to Enroll is mailed after an application has been processed and completed. The Official Permit to Enroll must be presented at the time the student registers.

Housing applications must be sent to the Dean, Student Housing, (see Section II, Living Accommodations) and may be made at any time, even though the application for admission has not been filed. The application for housing does not constitute an application for admission, nor does the application for admission constitute an application for housing.

Cut-Off Dates For Completed Applications

All applications for admission must be on file in the Admissions Office and all requirements for admission must be met by the cut-off date specified for the quarter in which the student wishes to enroll.

Summer Quarter, 1971: May 31, 1971.

Fall Quarter, 1971: March 1, 1971.

Winter Quarter, 1971-72: November 1, 1971.

Spring Quarter, 1972: February 15, 1972.

The University may announce changes in deadline dates for admission at any quarter when applications exceed the normal number of students that can be cared for by the University.

READMISSION

Former Undergraduate Students

Former undergraduate students who are in good standing and who return to the University after a lapse of one or more quarters must make application for readmission to the Records Office at least thirty calendar days prior to the official registration day of the quarter in which they intend to enroll. An earlier closing date may be announced in the public press. Students enrolled in the Spring Quarter need not apply for readmission for the ensuing Fall.

Former undergraduate students dismissed for low scholarship must apply for reinstatement to the Committee on Admissions. Petitions for reinstatement may be obtained from the Office of the Assistant Dean, General Services. Except where the student has not been dropped before and his grade point deficit is less than five points, he must be out of school one quarter before his petition will be considered. In any event, the student may not be reinstated for the Fall Quarter. Petitions must be submitted at least thirty calendar days prior to the official registration day of the quarter in which the student hopes to return. An earlier closing date may be announced in the public press.

Former undergraduate students who have attended other colleges or universities since last attending Eastern Illinois University must have official transcripts sent to the Records Office before final processing of the application can be completed. If the student is attending another college or university at the time of applying for readmission, a statement of good standing from that institution will suffice until the official transcript can be sent at the end of the semester or quarter.

Former Graduate Students

Former graduate students who return to the University after a lapse of one or more quarters must make application for readmission to the Records Office at least ten calendar days prior to the official registration day of the quarter in which they intend to enroll. An earlier closing date may be announced in the public press.

Restricted Fall Quarter Attendance

No student who was placed on final probation or extended final probation at the close of the last quarter in attendance at Eastern Illinois University may attend in the fall quarter unless he has satisfactorily completed work in at least twelve quarter hours at Eastern Illinois University during the summer quarter immediately preceding and satisfied retention regulations.

REGISTRATION

Registration Procedures

New Students. Instructions for the registration of new students are given in writing, in conferences, and at meetings during orientation periods.

Students Currently Enrolled. Each student currently enrolled during a quarter should submit a Course Request Card for his early registration for the following quarter. By doing so, the student agrees to complete his registration by advance payment of registration fees. The University assumes no responsibility for accepting an ineligible student's registration. Reservation of a space for any class is subject to the assigned capacity of the class. Scheduling for the reservation of space is planned so that graduate students, seniors, juniors, sophomores, and freshmen have priority in that order. Students who fail to complete the various steps in early registration will forfeit the space in class which has been reserved for them.

All students who have not completed early registration for a given quarter will register on Registration Day as listed in the University calendar and at times announced in advance of each quarter.

Former Students. Students who return to the University after a lapse of one or more quarters receive written instructions for registration after they have applied for readmission.

ACADEMIC ADVISEMENT

New Students

Each new student is assigned to an advisor who assists him in the preparation of his academic program. During the orientation or registration days the advisor and the student together plan his program. This plan is subject to modification later upon recommendation of the advisor and approval of the Dean of Student Academic Services.

It is expected that the student will have selected one of the curricula of the University and that the student and his advisor will plan courses that are consistent with the University requirements.

Former Students

After the application for readmission has been approved, the student is assigned to his major department or his former advisor through the Registration Office.

Students Changing A Major

Students who wish to change majors should apply in the Registration Office after consultation with their advisors. It is important that changes in majors and advisors be made *before pre-registration or registration*.

NEW STUDENT ORIENTATION

Prior to registration, activities are scheduled for acquainting new students with the University. Undergraduates enrolling at Eastern Illinois University for the first time, whether as first quarter freshmen or as students with advanced standing, are required to be present. Activities are planned to familiarize them with the University in order that they may understand its rules and regulations and become aware of the educational, social and recreational opportunities it provides. A schedule of activities is provided by mail.

V. ACADEMIC REGULATIONS AND REQUIREMENTS

CREDIT

CREDIT EARNED AT EASTERN ILLINOIS UNIVERSITY

The unit of measure is the quarter hour which is equivalent to two-thirds of a semester hour.

A regular academic year's work (three quarters) is equivalent to 48-54 quarter hours, with the student carrying four to five courses or 16-18 quarter hours each quarter. Course credits are indicated in the course descriptions.

Generally, students may earn no more than four quarter hours of credit toward graduation in dramatics, chorus, orchestra, and band. However, music majors and minors may receive a maximum of nine quarter hours credit toward graduation for such "ensemble" courses taken. See p. 230 . (Students in elementary education may earn four quarter hours in ensemble credits.)

ACCEPTANCE OF CREDIT FOR OTHER WORK

Credit for Courses in Other Colleges. Advanced standing and transfer credit are granted for courses passed in accredited colleges and universities and in accredited junior colleges, the total credit being reduced by a number equal to the grade point deficit of courses passed if the transcript shows a cumulative grade point average of less than 2.00. The cumulative GPA and the grade point deficit are computed in accordance with the procedures of Eastern Illinois University. Junior college transfers are cautioned that at least 88 quarter hours of credit toward a bachelor's degree must be earned in this institution or in another university or senior college. Courses taken in a junior college may be substituted for required courses of similar content as recommended by appropriate officials of the University. Junior college transfer students must complete at least 64 quarter hours of upper division work at Eastern Illinois University. All transfer students must meet the stipulations listed under "Graduation Requirements."

Credit for Courses Taken in Foreign Universities. Eastern Illinois University recognizes that some students may wish to study at a university in a foreign country. Credits earned in foreign universities in programs sponsored by accredited United States colleges or universities are accepted on the same basis as transfer credits from the United States institutions which sponsor the programs.

Students who successfully complete a junior year abroad program sponsored by an accredited United States college or university are granted exemptions (in addition to

the exemptions based on high school records) amounting to 12 quarter hours which may be applied in meeting the general requirements in any bachelor's degree program in the areas of humanities, history, and social science. These exemptions do not reduce the 190 quarter hours of credit required for graduation and they do not reduce the requirements pertaining to majors and minors.

Credit from a Junior College Taken While a High School Student. A student who, while in high school, takes college courses at a junior college, and upon completion of high school qualifies and enters Eastern Illinois University, will have up to a total of 20 quarter hours accepted for transfer credit of appropriate college courses in which he did "C" or better work in the junior college.

A student who, while in high school, takes college courses at a junior college, and upon completion of high school, continues his studies in the junior college and eventually enters Eastern Illinois University, will have his junior college courses accepted on the same basis as any other junior college transfer student.

Credit for Military Service. Former members of the armed services who completed at least one calendar year of full time active duty are allowed, upon application to the office of Veterans' Services, up to ten quarter hours of credit for Health Education 120 and physical education service courses. Certain experiences in military service may be submitted for evaluation for advanced standing. The recommendations contained in "A Guide to The Evaluation of Educational Experiences In the Armed Services" by the American Council on Education are used as a basis for such evaluation. Credit is allowed when the recommendations can be considered as reasonable substitutes for work ordinarily accepted by the University.

Credit for Correspondence and Extension Courses. Correspondence and extension courses taken from accredited colleges and universities may be submitted for evaluation for advanced standing toward a baccalaureate degree. The total credit accepted toward graduation may not exceed forty-eight quarter hours in correspondence and/or extension courses. Credit toward graduation for such courses, if taken in whole or in part during a period of residence study at Eastern Illinois University is subject to permission granted by the Assistant Dean, Records, in advance of enrollment and to subsequent completion in accordance with the conditions governing the permission. When students are enrolled simultaneously in any combination of residence, extension and correspondence courses, the total credit accepted may not exceed the maximum residence credit for which the student would be eligible during the period in question.

Application for permission must include the proposed starting date of the course, the proposed completion date, and the proposed periods of work. If the course is not completed in accordance with this schedule, an extension of time granted by the Assistant Dean, Records, is required in order for the course to be considered subsequently for credit toward a degree. Documentary verification of compliance with the regulations may be required by the Assistant Dean, Records.

Credit for Advanced Placement Tests. Students who submit scores for Advanced Placement Tests administered by the College Entrance Examination Board will have their records evaluated by the Dean, Student Academic Services, in accordance with standards established by the appropriate departments, to determine proper placement and proper credit. College credit granted will be treated as transfer credit without a grade; such credit will count toward graduation and may be used in fulfilling specific curriculum requirements. Credit may be allowed as indicated above only if the student was not obliged to use the credit earned in the advanced placement course to meet minimum high school graduation requirements.

Credit for College Level Examination Program (CLEP) Tests. Eastern Illinois University recognizes undergraduate achievement in the five basic liberal arts areas as measured by the general examinations of the College Level Examination Program (CLEP). A student with no college credits who achieves a score at or above the 25th percentile, based on CEEB national norms for students who have completed two years

of college work, on one of these tests is granted, upon admission to Eastern Illinois University, eight quarter hours of credit that count toward the 190 quarter hours required for a bachelor's degree. Maximum total hours for the battery of five tests is 40 quarter hours. Students who enroll at Eastern Illinois University with transfer credits and CLEP scores on general examinations may be given CLEP credit only in those areas not duplicating transfer credit.

Credit for College-Level General Educational Development Tests. No credit toward graduation is allowed for college-level General Educational Development tests.

CREDIT BY PROFICIENCY EXAMINATIONS

Proficiency examinations may be taken for credit in undergraduate courses offered in the University in accordance with the following regulations:

1. The applicant must be in good standing and must fit into one of the following categories:
 - a. Be enrolled as a full-time student.
 - b. Be within sixteen quarter hours of graduation.
 - c. Be a teacher who has been working regularly toward the degree Bachelor of Science in Education.
 - d. Be in full-time residence in the summer immediately preceding the year in which application is made.
2. The course in which examination is requested may not duplicate substantially any course accepted for college entrance or for transfer of credit.
3. The applicant must obtain a recommendation in writing from the department head and approval from the dean of the college or school before the examination may be taken. The applicant should present evidence of independent study, of experience, or of equivalent work taken in non-accredited schools.
4. An examination for credit in an elementary college subject will not be permitted to a student who has already received credit for more than one quarter of work in advance of the course in which the examination is requested.
5. Proficiency examinations may not be given for credit in courses in which the student has previously received an entry on his permanent record.
6. In order for the student to be allowed credit, the examination must be comprehensive, and the grade must be C or higher. The symbol Cr is entered in the student's record, and the credit is not counted in averages for honors, probation, etc.
7. Credit earned by proficiency examinations may be counted toward a bachelor's degree subject to all of the rules that would apply if the same course had been taken in regular class attendance.
8. Proficiency examinations may not be given for credit in physical education service courses.
9. When a course in which an examination is granted is ordinarily taught by more than one member of a department, a committee of at least two members should be assigned the responsibility for the examination and the grade. This assignment is made by the head of the department.

CLASSIFICATION OF STUDENTS

Undergraduate students are classified as follows:

Freshmen	0 through 42 quarter hours
Sophomores	43 through 89 quarter hours
Juniors	90 through 141 quarter hours
Seniors	142 quarter hours and over

Graduate students are defined as students who have completed all requirements for a bachelor's degree and have applied for and been admitted to the Graduate School.

HONORS PROGRAM

Selected students who volunteer may enroll in the Honors Program which has the following objectives:

- to give outstanding students opportunity to explore various fields of study more widely and in greater depth, in a manner suitable and challenging to their talents;
- to encourage intellectually gifted students to enroll at Eastern Illinois University; and
- to create for outstanding students an environment highly conducive to scholarly pursuit.

The program consists of special honors sections of courses, special courses for honors students, and, at the advanced level, independent study and honor seminars. Students participating in the program are designated Hobart F. Heller Scholars.

ACADEMIC STANDING

GRADES The grades given in courses are as follows:

Grade	Description	Grade Point Value	Grade	Description	Grade Point Value
A	Excellent	4	E	Incomplete	—
B	Good	3	W	Withdrew—passing	—
C	Fair	2	WF	Withdrew—failing	0
D	Poor but passing	1	AU	Audit	—
F	Failure	0	Cr	Proficiency Credit	—
P	Pass	—			

The grade of E is given only when, because of illness or some other important reason, a student's normal progress in a course is delayed. Such student must secure an instructor-approved plan which will allow completion of work no later than the end of the next quarter in which the course is offered and in which he is in residence. If the plan is accomplished, the instructor submits a Removal of Incomplete Form indicating the appropriate grade. If the student does not secure an instructor-approved plan or if the plan is not accomplished within the specified time-limit, the instructor will submit a change-of-grade form indicating an F grade or, in special circumstances, he may grant a time extension. This requirement applies to both undergraduate and graduate courses with the exception that the time restriction does not apply to the formal papers required for degrees beyond the baccalaureate.

GRADE-POINT AVERAGE¹

The number of grade points for a grade in a given course is found by multiplying the grade-point value by the number of quarter hours which may be earned in the course. The grade point average is computed by dividing the total number of grade

¹ An example of these computations: If grades of A, B, C, D, and F are earned in courses of 2, 4, 4, 1, and 4 quarter hours respectively, the grade-point average and grade-point deficit are computed as follows: Grade A, 2 quarter hours, yields a grade point total of 8; grade B, 4 quarter hours, yields a grade point total of 12; grade C, 4 quarter hours, yields 8 grade points; grade D, 1 quarter hours, yields 1 grade point; grade F, 4 quarter hours, yields no grade points; and the grand totals are 29 grade points for 15 quarter hours. The G.P.A. is then $29 \div 15$, or 1.93.

points which a student has earned in all courses taken at Eastern Illinois University by the total number of quarter hours represented by those courses (excluding courses in which a student has grades of E, P, W, AU, or Cr).

GRADE-POINT DEFICIT ²

If the grade-point average is less than 2.00, a grade-point deficit exists. This is computed by subtracting the grade-point total from twice the total number of quarter hours. (This is equivalent to defining the grade-point deficit as the number by which the grade-point total would have to be increased in order to have a grade-point average of 2.00.)

DEFINITION OF QUARTER OF ATTENDANCE

Any quarter in which a student registers in the University and remains beyond the day on which the official count is taken will be considered as a quarter attended.

GOOD STANDING

A student who has attended Eastern Illinois University for at least one quarter and who has attempted 39 or less quarter hours of college credit, including those accepted from another institution is considered in good academic standing unless he has a deficit greater than four points in courses taken at Eastern Illinois University. If the student has attempted more than 39 quarter hours in college credit, including those accepted from another institution, he is considered in good academic standing if he has no grade-point deficit in courses taken at Eastern Illinois University.

PROBATION

A student whose record falls below that required for good standing, but not so low as to be subject to academic dismissal, is placed on probation.

FINAL PROBATION

A student who has attended for one quarter on probation and whose record at the close of that quarter or at any subsequent time falls below that required for good standing, but not so low as to be subject to academic dismissal, is placed on final probation.

An entering first quarter freshman student who is admitted on final probation, however, is subject to the same rules as those governing a student admitted in good standing if, in each of his first three quarters, he carries a minimum of 12 quarter hours each quarter and attains a quarterly GPA of at least 2.00.

EXTENDED FINAL PROBATION

A student who has attended for one quarter on final probation must either attain good standing or reduce his grade point deficit by at least four points in order to be classified as on extended final probation, and be subject to all the rules which govern final probation.

² G.P.D. = $2 \times 15 \div 29 = 1$

ACADEMIC DISMISSAL

An undergraduate student is dismissed for low scholarship if (1) at the end of a quarter on Final Probation he has neither attained good standing nor qualified for Extended Final Probation, (2) after reattaining good standing he fails at any time to maintain good standing, (3) he has attempted 96 or less quarter hours of college credit, including those accepted from another institution, and his grade point deficit in courses taken at Eastern Illinois University exceeds 12 points, (4) he has attempted more than 96 quarter hours of college credit, including those accepted from another institution, and his grade-point deficit in courses taken at Eastern Illinois University exceeds eight points.

POST BACCALAUREATE DEGREE STUDENTS

A post-bachelor's degree student who is enrolled either part-time or full-time for courses in the University and who is not a degree candidate must achieve the following grade-point average or be subject to academic dismissal:

Total Hours Attempted Beyond Bachelor's	Minimum GPA
0-4	1.00
5-16	1.50
17-24	1.75
25 and above	2.00

REINSTATEMENT FOLLOWING ACADEMIC DISMISSAL

Only the Committee on Admissions may reinstate a student who has been dismissed for low scholarship. A dismissed student may petition the Committee for reinstatement at any time; however actual reinstatement is subject to the following general conditions:

- a. A period of one quarter must elapse before any student may be reinstated, unless the student has fewer than five deficit points and has not been academically dismissed previously.
- b. A period of one calendar year must elapse before a student who is dismissed with more than 12 deficit points may be reinstated.

If a student is reinstated by the Committee on Admissions before one calendar year has elapsed from the time of academic dismissal, the student re-enters the University on final probation and must reduce his deficit points by at least four points during each quarter until reaching good standing, and then maintain good standing each quarter in order to remain in the University. Such a student, upon reinstatement, re-enters with his current grade-point average, his current deficits, and his credits for previous courses graded D.

Any student who has been dismissed academically and who is granted reinstatement after at least one calendar year has elapsed from the time of the dismissal, re-enters the University on final probation, and his previous record is evaluated as follows: his hours of credit toward graduation are limited to the total represented by courses previously passed with a grade of C or higher; courses previously graded D need not be repeated and they may count toward the total hours required for graduation; and subsequent computation of his grade-point-average is based on work done after reinstatement. A student may have only one opportunity for reinstatement on these terms.

ACADEMIC EXCLUSION

A student who has been dismissed for low scholarship three times (including academic dismissal from any other institution) may not be reinstated.

ACADEMIC LOAD**UNDERGRADUATE STUDENT**

Normal Load. The normal load for an undergraduate student in any quarter is sixteen to eighteen quarter hours of undergraduate course work.

Maximum Load—Student Teaching Quarter. No student may take more than sixteen quarter hours of work during the quarter in which he is doing student teaching.

Maximum Load—First Quarter of Residence. No student may register for more than eighteen quarter hours during his first quarter of residence.

Combination Loads—Summer Eight-Week Term. An undergraduate taking work in both the undergraduate summer quarter and the graduate term may take not more than 16 quarter hours, with combinations as follows:

A junior or senior whose cumulative grade point average is 2.25 or higher may combine three courses in the undergraduate quarter with one course numbered 450 to 499 in the graduate term.

A junior or senior whose cumulative grade point average is 2.75 or higher may combine two courses in the undergraduate quarter with two courses numbered 450 to 499 in the graduate term.

A junior or senior who takes no more than 12 quarter hours in total may take these in any combination of undergraduate courses and courses numbered 450 to 499 offered in the graduate term.

A senior who is otherwise eligible for a course numbered 500 to 549 may take it instead of a course numbered 450 to 499 in accordance with the above rules.

Overload. Subject to exceptions set forth below, an undergraduate student may register for as many as twenty-one quarter hours of undergraduate work if his cumulative grade point average or his grade point average for each of the last three quarters is at least 3.00. An undergraduate student may register for more than twenty-one quarter hours of undergraduate work if his cumulative grade point average is at least 3.50 and he has permission from the dean of the college or school administering his major.

Final Quarter Seniors. Final quarter seniors, not taking student teaching in that quarter, may register for up to and including twenty quarter hours of undergraduate work providing:

- a. the student is in good standing;
- b. the appropriate dean notifies the Dean, Student Academic Services, in writing that such an academic load, if successfully completed, will insure graduation in that quarter. The student is responsible for obtaining such a statement from his dean and taking it to the Dean, Student Academic Services, who, thereupon, authorizes the overload.

If the student is scheduled for student teaching in his last quarter, he may use the above option in the preceding quarter.

GRADUATE STUDENT

A graduate student is restricted to sixteen quarter hours during a fall, winter or spring quarter and twelve quarter hours during the summer term.

COURSE ENROLLMENT

A student may not enroll in a course which is prerequisite for a course for which he has credit nor may he enroll in a course which substantially duplicates, at a lower level, a course or courses which he has already successfully completed. Should a student violate this prescription, he will not receive credit for the course toward graduation and the grade will not be included in any GPA computations.

REPEATING COURSES

A student who receives an A, B, or C grade in a course may not repeat the course. A student who receives a D in a course may repeat the course only once.

AUDITING OF COURSES

Fees for auditing are the same as those for students taking an equivalent amount of work for credit.

Students enrolled for full time academic work must include any courses they wish to audit as part of the maximum load permitted them; change of registration from "audit" to "credit" or from "credit" to "audit" may be made only during the six calendar days following the first day of classes.

ATTENDANCE AT CLASS

Academic instruction at the university operates under the principle that class attendance is necessary to the complete learning process. Therefore, students are expected to attend their classes unless prevented by illness, an official university activity, or other urgent reasons.

If the student is absent from class for a legitimate reason which is established through the University Health Service or the Office of the Assistant Dean, General Services, the instructor should afford the student a reasonable opportunity to make up work missed, including examinations. When the absence is unexplained, no such opportunity need be afforded the student.

A student who is absent from class, for whatever reason, is held responsible for the class material covered during his absence and he is expected to turn in all the exercises, papers, etc., assigned for submission during the course. However, the instructor will not use the mere fact of absence as a factor in determining a final course grade since such evaluations are based on achievement and are expected to measure learning—not attendance.

Instructors are responsible for keeping in their classbooks accurate records of the attendance of all members of their classes. The attendance record of any student shall be submitted to the Vice President for Academic Affairs; Office of the Dean, Student Personnel Services; or Dean, Student Academic Services, upon request.

If a student is absent from a given class for more than five consecutive sessions or establishes a pattern or record of absences which becomes a matter of concern to the instructor, the instructor will notify the Office of the Assistant Dean, General Services, of the student's absence record, requesting that inquiries concerning the reason for absence be made.

PASS-FAIL OPTION

To encourage student to participate in areas of learning outside their major academic interests and to stimulate intellectual curiosity, the University inaugurated a pass-fail system. The following rules apply:

Eligibility. Juniors and seniors in good standing.

Courses Excluded. Courses used to satisfy all-university requirements, major requirements, concentration requirements, or professional education requirements (except Teaching Practicum). Further, 100 level courses taken pass-fail cannot be used to satisfy general requirements. (Only four-quarter-hour courses may be taken pass-fail.)

Limit of Courses. Maximum of four total courses, with only one option course in any single quarter. Teaching Practicum is not included in the pass-fail limit.

Procedures. At pre-registration, only, the student will indicate the course he has opted for a pass-fail grade. No change of grade basis will be made unless the student fails to qualify for the pass-fail option.

Grades. Instructors will award the usual letter grades, but for students who select a pass-fail option, the permanent record card will show, for the opted course, either P or F. In the unusual case when a junior or senior changes his major which may then include as a requirement a course he has previously opted for pass-fail, the letter grade originally awarded will be entered on the permanent record card and appropriate recomputation of GPA will be made.

GPA. Hours taken Pass-Fail will be counted in total hours credit toward graduation. A grade of P and credit hours for the P will not be included in GPA computation. However, an F grade and its hours will count in GPA computations.

WITHDRAWAL FROM A COURSE

A student who wishes to drop a course must obtain a drop request card, complete it, and return it to the Registration Office. The following rules apply:

1. Within the first ten calendar days after the first class day of a quarter, a student may withdraw from a course (or from the University) without a grade.
2. After the first ten calendar days following the first class day, but prior to the 30th* calendar day of the quarter, a student may withdraw from a course (or from the University) with a grade of W.
3. A student who withdraws on or after the 30th* calendar day of a quarter will receive a grade of W if he is passing the course or a grade of WF if he is failing the course. However, no student may initiate withdrawal from a course (or from the University) later than a period beginning fourteen calendar days prior to the first regularly scheduled final quarterly examination. Summer session cutoff dates, which are reduced proportionately, are established and announced by the Dean, Student Academic Services.
4. If mitigating circumstances exist, the Dean, Student Academic Services, may upon recommendation of the Dean, Student Personnel Services, and/or the University Physician, advise the recording of a grade of W instead of a grade of WF.
5. The grade of WF carries the same grade-point evaluation as the grade of F.

For refund of fees, where applicable, see page 59.

WITHDRAWAL FROM THE UNIVERSITY

A student who wishes to withdraw from the University before the end of a quarter or summer term must obtain a withdrawal form from the Office of the Assistant Dean, General Services. Completion of this form will certify that all obligations, including the return of textbooks and library books, the return of departmental equipment loaned to

* If the 10th or 30th calendar day of the quarter falls on a Saturday, Sunday, or within a stated vacation period (except the Christmas break), the next school day is used. In the case of the Christmas break, the vacation days are not included.

the student, the return of the identification card, etc., have been met. When completed, the form must be turned in to the Registration Office. The student is not withdrawn until the form is completed and submitted. The student is then officially withdrawn from the University, and the Registration Office notifies appropriate departments and agencies of the withdrawal.

If a student withdraws from the University and his initial notice of intention to withdraw is made to the Office of the Assistant Dean, General Services, and his withdrawal is completed during the first ten calendar days (except the eight-week graduate term) following the first day of the classes for the quarter, the registration fee will be refunded. The notice of intention to withdraw should be made in person although a letter addressed to the Office of the Assistant Dean, General Services, declaring intention to withdraw and postmarked within the stated period is deemed equivalent to the initial notice.

Policies covering the withdrawal of students from school because of a call to active military duty are administered by the Dean, Student Academic Services.

Rules governing grading practices upon withdrawal from the University are the same as for withdrawal from a course.

GRADUATION REQUIREMENTS

RESPONSIBILITY OF STUDENTS

It is the responsibility of the student to know and to observe the requirements of his curriculum and the rules governing academic work. Although the advisor will attempt to help the student make wise decisions, the ultimate responsibility for meeting the requirements for graduation rests with the student.

OPTIONAL CATALOG REQUIREMENTS

A student may choose to graduate under the requirements stated in the catalog current at his time of entrance or under the requirements stated in a subsequent catalog published prior to his graduation. However, in no case may a student combine or choose various requirements from several catalogs in order to achieve a minimal curriculum. During periods of transition, Deans, in consultation with department heads, are authorized to make such curriculum adjustments to graduation plans that will assure academically meaningful programs. Copies of all authorizations for exceptions must be filed in the Records Office.

Junior college transfers will be granted the same catalog options as native students in accordance with the following:

- a. The student who transfers to the University at the end of his freshman year will have the option of meeting requirements for graduation under the catalog which was in effect when he became a freshman at the original institution or the current University catalog, whichever he chooses.
- b. The student who transfers to the University after completing his sophomore year will have the option of choosing the University catalog which was in effect when he entered the original institution or either of the two succeeding catalogs.
- c. In no case will the transfer student be allowed to select a University catalog which was in effect more than three years prior to his admission to the University.

COURSE REQUIREMENTS FOR THE BACCALAUREATE DEGREES

The official course requirements for the baccalaureate degrees are given in Section VII.

REQUIREMENTS FOR A SECOND BACHELOR'S DEGREE

A candidate for a second bachelor's degree must earn at least 222 quarter hours of credit, 96 of them in residence, and meet the requirements of the programs in which he is a candidate. The two bachelor's degrees may be conferred at the same time providing the student makes appropriate arrangements with the deans concerned prior to entering officially upon the programs leading to the two degrees.

TOTAL CREDITS REQUIRED

The minimum credit for a baccalaureate degree is 190 quarter hours including at least 6 quarter hours but not more than 9 quarter hours of physical education service courses. For disabled persons and students who are over 25 years of age, a waiver of up to 6 quarter hours will be granted for physical education service courses and the graduation requirement will be reduced by a corresponding number of hours, but by no more than 6 hours.

RESIDENCE

Undergraduate degree candidates must earn a minimum of 64 quarter hours of residence at this institution, and complete at least 48 quarter hours in residence during their junior and senior years. Cooperative degree candidates must earn at least 64 quarter hours in residence and complete a minimum of 40 quarter hours in residence during their junior and senior years.

TRANSFER STUDENTS

A transfer student is required to pass a minimum of three courses in his major department.

SPECIAL EXAMINATIONS

Constitution Examination. An examination on the Declaration of Independence, the proper use and display of the flag and the constitutions of the United States and of Illinois must have been passed before the student applies for graduation. An exemption from this requirement may be obtained by students who receive a grade of C or better in each of Political Science 110, 111, 260 and who apply to the Records Office.

Seniors. Seniors, preferably in their last two quarters, depending upon their area of concentration, are encouraged to take one of the following examinations:

- a. For students in the Elementary and Junior High School Curriculum: The National Teacher Examination—Common.
- b. For students in the Secondary School Curriculum: either the NTE or the GRE.
- c. For all other undergraduate students: The Graduate Record Examination—Aptitude.

ADVANCED COURSES

Sixty-four quarter hours of credit in courses numbered 300-549 must be earned in the baccalaureate degree programs. In the case of students who enter with advanced standing, courses not open to freshmen and sophomores in schools previously attended may be included in this total.

GRADE-POINT AVERAGE

Grade point averages required for graduation are: a cumulative overall GPA of at least 2.00; and a cumulative GPA of at least 2.00 in the major.

CREDIT FOR COURSES IN EDUCATION*

Courses in education (except Education 470, 474, and 495) and methods of teaching are accepted only toward the degrees Bachelor of Science in Education and Bachelor of Arts and Bachelor of Science for students who are secondary teaching candidates. Enrollment in these courses (with the exception of Education 123 and 232) is restricted to students at the junior level, or higher, who have been accepted as teacher education candidates, and the credit counts toward graduation only for candidates who complete a teacher certification program.

APPLICATION FOR GRADUATION

Degrees are conferred at the close of the fall, winter, spring, and summer quarters. Students entitled to participate in commencement exercises are those whose current enrollment in correspondence, extension, and residence at this university or elsewhere makes possible the completion of all graduation requirements by the close of the quarter in which commencement is held. Students may be excused from the commencement exercises by the Faculty Marshall.

Students apply for graduation by the middle of the quarter in which they expect to complete the following quarter hours of course work:

Elementary & Junior High School Majors	128
School of Ind.Arts & Technology	128
School of Health, P.E. & Recreation	128
Medical Technology	96
All others	112

A student may expect to receive from his school or college an evaluation of his progress toward completion of graduation requirements approximately one month after the beginning of the ensuing quarter.

Applications for graduation may be obtained at the Records Office. The application is completed by the student and validated by the Cashier when the graduation fee is paid. Beginning Fall 1971, graduation fees are as follows: bachelor's degree, \$15; master's degree, \$20; specialist's degree, \$20.

All requirements for degrees must have been completed by the close of the quarter in which graduation is sought. It is the student's responsibility to notify the Records Office of any non-campus courses being taken which will complete the requirements for graduation. Documentary evidence that all degree requirements have been completed must be in the Records Office by the official closing date of the quarter of graduation, or within a thirty-day grace period following that date. The diploma will not be given to the student and the conferral of the degree will not be recorded on the student's permanent record until all such documents have been received.

If the student does not complete graduation requirements at the end of the quarter expected, he must make re-application for graduation. No additional fees will be charged.

The deadline date for applying for graduation is the regularly scheduled registration day for the quarter at the end of which the candidate plans to graduate.

HONORS

Graduation Honors. A student whose cumulative grade-point average is at least 3.40 but less than 3.75 is graduated with honors; one whose cumulative grade-point average is 3.75 or higher is graduated with high honors.

* Students enrolled in the Family Services curriculum are required to take Education 490 and students enrolled in the Dietetics curriculum take Education 232 and the methods course in home economics.

To be eligible for graduation honors a student must have taken, by the time he graduates, a minimum of 88 quarter hours at Eastern Illinois University.

In order to be announced at commencement, tentative graduation honors will be computed on the basis of the scholarship record at the end of the quarter preceding the quarter of graduation. However, graduation honors are recorded on the diploma and the transcript only for students who complete graduation requirements with the final cumulative grade-point averages specified above.

Quarter Honors. Honors for a particular quarter, announced at the close of a quarter, are awarded in accordance with quarter grade-point averages which must have the same value as those specified above. To be eligible for quarter honors the student must have taken at least 12 quarter hours in courses not graded P-F during the quarter.

CERTIFICATION

Candidates for the degree B.S. in Ed., and secondary education candidates for the degrees B.S. or B.A., are responsible for fulfilling any special certification or accreditation requirements of the schools in which they will teach.

Cards of entitlement for teaching certificates or transcripts indicating that the student has completed his degree cannot be issued until the student meets all requirements of the section on Graduation Requirements.

Administration, Supervision, Guidance and Counseling Certification: Graduates of an approved program in Administration and Supervision or Guidance and Counseling should make application for cards of entitlement in the Office of the Head of the Department. After attaching his endorsement the department head will forward the application to the Office of the Dean, Faculty of Education.

PLACEMENT OFFICE

Registration with the Placement Office is recommended prior to graduation with any degree.

TRANSCRIPTS

The Records Office will make a transcript of the academic record of a student when requested to do so. Unless specific instructions are given to the contrary, it is understood that the Records Office has permission of the student to send his transcript of record to employing and certifying agencies, such as schools, boards of education, businesses, state department of education, when such an agency requests it.

All requests for transcripts must be in writing, either by letter or on the request form supplied by the Records Office.

The time required for preparation and mailing of transcripts varies; during registration and quarter end there may be a delay of several days.

A fee of one dollar is charged for each transcript issued after the first one. Fifty cents is charged for each extra copy of the transcript when more than one is made at one time. Transcripts will be issued only for students whose University records are clear.



VI. EXTENSION SERVICES

ESTABLISHING CENTERS

Extension courses are assigned to centers where it is likely that needs and enrollment will justify the service. Requests from county superintendents, unit administrators, group of teachers, and other agencies are considered in planning the extension offerings.

Requests for courses should be filed well in advance of the time the course may be desired. The University reserves the right to cancel scheduled classes where there is evidence that the enrollment will be inadequate.

ENTRANCE REQUIREMENTS

Undergraduate extension courses are open to high school graduates subject to specific course prerequisites. However, admission to undergraduate extension courses does not constitute admission to the University. An application for admission must be filed at the time of registration the first time a student registers for an on campus undergraduate course.

A student enrolling in graduate courses is subject to the same entrance requirements as one enrolling in comparable courses taught in residence. He must file an application for admission to graduate study at the time of registration the first time he registers for a graduate course.

REGISTRATION PROCEDURES

Students will register and pay fees by mail. The instructor will furnish students with registration material at the first and second class sessions. Enrollment procedures will be explained by the instructor at that time. The completed forms and fees are mailed to the Business Office.

FEES

The fees are \$16.00 per quarter hour of credit. In addition, a \$3.00 book rental is charged each student.

Regular fees are required of students auditing a course.

CREDIT FOR EXTENSION COURSES

Credit (in most cases, four quarter hours) is given upon successful completion of an extension course. Students not interested in receiving credit may audit courses by paying appropriate fees and receiving permission from the instructor.

SCHOLARSHIPS

Teacher Education Scholarships may not be used on extension. Military Scholarships may be used on extension.

SCHEDULE OF CLASSES

The schedule for extension classes is published annually in the Extension Bulletin. Classes meet in weekly periods of one hundred eighty minutes for twelve weeks, i.e., from 7 p.m. to 10 p.m., once per week. In addition to the regular weekly meetings instructors may schedule four additional class hours for each class during the quarter. Address all requests for bulletins and other inquiries to the Director of Extension.

WORKSHOPS, CONFERENCES AND SPECIAL FEATURES

Each summer a series of workshops, conferences, and/or special features are planned by various academic departments at Eastern Illinois University. Occasionally, workshops are conducted at centers away from the university campus. All workshops are coordinated through the Extension Office — requests being submitted to the Director of Extension during the Fall Quarter of each year.

Workshop classes will not meet more than five days each week. Credit for each course is determined by the following minimum criteria:

Quarter Hours	Minimum Contact Hours	Minimum Class Days
1	10	5
2	20	8
3	30	10
4	40	14

The unit of measure is the quarter hour, representing approximately 32 hours of student effort, including time spent in class, study, laboratory, and examinations. The normal four-quarter-hour non-laboratory course includes 40 contact class hours plus study time (approximately double the class time) plus a final examination and examination study time, or a total of about 126 hours of effort.

VII. UNDERGRADUATE DEGREES

RESPONSIBILITY OF STUDENTS

The requirements for each baccalaureate degree, and the majors, minors, and other specialized curricula for the degrees, are described in the sections which follow. The student has the ultimate responsibility to fulfill the requirements for the degree, to check his own eligibility to take courses, and to observe the academic rules governing his program. The advisor's role is to assist him in making important decisions.

CHOOSING A DEGREE

The University confers the following undergraduate degrees:

LIBERAL ARTS DEGREES

- Bachelor of Arts
- Bachelor of Science

PROFESSIONAL DEGREES

- Bachelor of Music
- Bachelor of Science in Business
- Bachelor of Science in Education
- Bachelor of Science in Home Economics
- Bachelor of Science in Industrial Technology
- Bachelor of Science in Recreation
- Bachelor of Science (Engineering)*
- Bachelor of Science (Medical Technology)*
- Bachelor of Science (Pre-Medicine)*

The Bachelor of Arts degree indicates a broad, liberal education with emphasis in the humanities and the social sciences. Similarly, the Bachelor of Science degree implies a special interest in scientific thought, subject and method. Other degrees listed above indicate particular preparation for definite professional or vocational roles. All undergraduate degrees require that the student complete courses in general education consisting of specific all-University requirements and distribution requirements in certain areas, at least one academic specialization, and, in certain programs, prescribed professional courses. (Unless otherwise specified, courses listed both in the general education requirements and in the specialization requirements may count toward satisfying both requirements.)

TEACHER PREPARATION PROGRAMS

A chief objective of the University, since its beginning, has been the preparation of exceptionally qualified teachers for the schools. Even with today's expanded curriculum

*Cooperative degrees — see p. 140

including various general and professional programs, much of the University's concern continues to be teacher preparation, and some two-thirds of the students in each graduating class are prepared to enter careers as elementary, junior high school, or secondary teachers.

Recognizing the importance of preparing the highest quality of teachers and school service personnel, the University views teacher education as a total institutional responsibility. To marshal all relevant resources to the support of the teacher education program the University has established a representative faculty Council on Teacher Education. This council reviews and adjudicates all matters pertaining to curricular change and revision, admission and retention standards for teacher education, and establishes policies governing teacher education.

Teacher preparation programs require admission to teacher education (see below), successful completion of general education courses and professional education courses, including student teaching (see Teaching Practicum, page 94), and specialized study of one or more disciplines which the student plans to teach. Upon completion of certain programs, teaching candidates are qualified to receive a bachelor's degree and are recommended for an Illinois teaching certificate as follows:

<i>Degree</i>	<i>Teaching Certificate</i>
B.S.Ed.	Standard Elementary Certificate, Grades K through 9
B.A., B.S., B.S.Ed.	Standard High School Certificate, Grades 6 through 12
B.S.Ed.	Standard Special Certificate, Grades K through 14

The curriculum for junior high school teaching leads to the B.S.Ed. degree and the Standard High School Certificate.

High school or secondary teaching candidates who wish to prepare for teaching in a single discipline may choose to work toward the B.A. or B.S. degree and a Standard High School Certificate by completing the all-University requirements, the distribution requirements for the appropriate degree, the teaching major requirements for the discipline as shown in the B.A. and B.S. degrees section, and the professional education requirements for high school teachers as shown in the B.S.Ed. section. Pertinent disciplines are botany, chemistry, English, foreign languages, geography, history, mathematics, physics, political science, psychology, sociology, speech, theatre arts, and zoology.

Secondary teaching candidates who are preparing to teach in more than one discipline will work toward the B.S.Ed. degree and a Standard High School Certificate by completing the all-University requirements, the distribution requirements shown for Professional Degrees, a major and a minor* as shown in the B.S.Ed. section, and the professional education requirements for high school teachers.

Special area teaching candidates who wish to teach art, home economics, music, or physical education (women), work toward a B.S.Ed. degree and a Standard Special Certificate by completing the all-University requirements, distribution requirements for Professional Degrees, the major as shown in the B.S.Ed. section, and the professional education requirements shown for special area teachers.

ADMISSION TO TEACHER EDUCATION

Admission to the University does not of itself admit a student to a teacher education program. Rather, the teaching aspirant must formally apply for teacher education through the office of the Dean, Faculty of Education, to the University Council on Teacher Education which determines such admissions. Admission to teacher education is, in general, prerequisite to education courses numbered 300 or higher (except Education 470, 474, 495) and to departmental methods courses. Exceptions to this rule are made to allow Dietetics majors to enroll in departmental methods course, and Family Services majors to enroll in Education 490.

Application forms are secured in the office of the Dean, Faculty of Education. Each applicant is given a pamphlet explaining admission and retention policies. Section 21-2 of The School Code of Illinois states in part, "No one shall be certificated to teach or supervise in the public schools of the State of Illinois who is not of good character, good health, a citizen of the United States and at least 19 years of age. . . ." In addition to the qualifications outlined by the State Code, the Council also requires for its consideration of each teacher education candidate the following:

* Certain curricula do not require a minor in the B.S.Ed. degree. See major outlines in the B.S.Ed. section.

1. A formal application.
2. Grades which average 2.10 or higher.
3. Evidence that proficiency in English as a prerequisite to graduation has been met.
 - (a) A student will meet the criterion for English proficiency for admission to teacher education if he has a C average in any combination of three of the following four courses: English 120, 130, 201, Speech 131. (Certification requirements may be met by a score of 400 or higher on the verbal aptitude part of the Graduate Record Examination.)
 - (b) In the case of a student who has repeated one or more of the courses considered in determining English proficiency only the higher grade received in each course is used in computing the grade average. (For other purposes all grades in courses taken at Eastern are included in computing grade averages.)
4. A recommendation from the student's major department.
5. A recommendation from the University Physician.
6. A recommendation from the Speech and Hearing Clinic.
7. A record of the scores made by the student in entrance tests and subsequent tests administered to students.
8. A statement from the Dean of Student Personnel Services.

Failure of a student to gain admission to teacher education by the close of the quarter in which he will have earned 120 quarter hours, or failure by a transfer student who entered with 90 or more quarter hours in accepted credit to receive approval by the end of his third quarter of residence at Eastern Illinois University, is equivalent to rejection of the application. A student whose application is rejected may not continue his enrollment in a teacher preparation program. A student who is refused admission to the teacher education program or whose admission is revoked may appeal the decision to the Council on Teacher Education. Appeal forms may be secured in the office of the Dean, Faculty of Education. Students are cautioned that appeals are considered on the basis of extenuating circumstances. Students admitted to teacher education after the 120 quarter hour cut-off may be required to take additional hours, up to a maximum of 60 quarter hours, of undergraduate credit prior to completing the requirements for the teaching degree program. This additional work is to be taken during quarters following the quarter of admission.

Any student who has ever been enrolled at Eastern Illinois University, and who has received credit for courses taken, will be considered a readmitted student. Readmitted students must follow the same rules and regulations as resident students for the purpose of admission to teacher education.

Curricula for High School and Special Area Teachers. The student must make application for admission to teacher education no earlier than the quarter in which he will complete 40 quarter hours of credit and no later than the quarter in which he will have completed 100 quarter hours of credit. Enrollment in departmental methods courses or in courses in education is not permitted until after admission to teacher education. Students are encouraged to participate in Education 331 after they have made application to teacher education.

Elementary and Junior High School Education. Students are considered as tentatively enrolled in the curricula for elementary and junior high school teaching until admitted to teacher education. They will submit applications for admission at the same time as students in the high school curricula. Enrollment in methods courses and education courses, except Education 123 and 232, is deferred until after admission to teacher education.

Transfer, Graduates, and Extension Students. Transfer students, except elementary and junior high school majors, who enter with freshman or sophomore standing must be admitted to teacher education before they are permitted to earn credit in departmental methods or education courses. Elementary and junior high school majors are allowed to enroll in Education 123 and 232 prior to admission to teacher education. Transfer students with junior or senior standing may carry such courses on a tentative basis while their applications for admission to teacher education are pending, but must gain admission within three quarters of residence.

A person with a baccalaureate degree from a recognized college or university may take departmental methods courses and education courses without formal admission to teacher education but may enroll in teaching practicum only after admission to teacher education. Teachers in service may take departmental methods courses and education courses in extension, or on a part-time basis in residence classes, without admission to teacher education but must apply for admission to teacher education upon re-registering for full-time residence work.

Undergraduate Students Reinstated After Having Been Dismissed for Low Scholarship. Students who have been dismissed for low scholarship from Eastern Illinois University and reinstated must be in attendance and earn at least 32 quarter hours of credit before being eligible to make application for admission or readmission to teacher education.

Revocation of Admission. Under certain conditions admission to teacher education may be revoked by the Council on Teacher Education. Major causes of revocation are indicated in the pamphlet, Admission to Teacher Education---Handbook of Information. The pamphlet is given to each student at the time of application for admission to the teacher education program.

Late Application. Students who have followed a program other than teacher preparation and who have earned more than 120 quarter hours may make application for admission to teacher education but must make up deficiencies in the curriculum leading to the teacher preparation program. No privileges will be accorded in the way of acceleration of either the professional or academic requirements of that curriculum or the waiving of course prerequisites.

TEACHING PRACTICUM (EDUCATION 440, 441, 442, 443, 444)

Participants in the teaching practicum must comply with all regulations and qualifications relative to admittance to teacher education. Students must earn at least four quarter hours of the required teaching practicum credit in the Eastern Illinois University teaching practicum program for graduation.

1. Depending upon the level of concentration:
 - a. **Elementary School Curriculum.** Students must have completed Education 324 and Education 328; to student teach in the Kindergarten the student must also have completed Education 426; to teach in an Educable Mentally Handicapped Program a student must also have completed Education 495 and 496; to teach in the area of Learning Disabilities a student must also have completed Education 497.
 - b. **Junior High Curriculum.** Students must have completed Education 311, 312, and Education 313 or 314 or an approved substitute. Equivalent courses submitted must be approved by the Dean, Faculty of Education.
 - c. **High School and Special Area Curricula.** Students must have completed Education 332 and 333 (except students in the speech pathology and audiology curriculum who take Education 232 and 324) and any required departmental methods courses for the subjects to be assigned them. Effective for students admitted to teacher education after spring quarter, 1970, the requirements, with the exception of music, physical education, and speech pathology and audiology majors, are Education 331, 332, 333 and required departmental methods courses.
2. An overall grade-point average of 2.10 is required for application for admission to teaching practicum. Students must also have an average of 2.10 in their teaching field at the time of application.
3. The minimum requirements established by the Office of the Superintendent of Public Instruction for teaching a subject should have been completed.
4. Transfer students must have been in residence at Eastern Illinois University for at least one quarter or one summer term.
5. A tuberculin skin test must have been completed in the University Health Service during the quarter prior to the teaching practicum assignment.
6. Students enrolled in off-campus teaching must assume the necessary transportation, room, and board expenses.
7. Students who participate in full-time off-campus teaching should live in the community in which they do their teaching and are expected to observe the local calendar.

8. Students engaged in the teaching practicum are expected to participate in such activities as guidance programs of the school, audio-visual programs, study hall supervision, preparation of assembly programs, field trips, dramatics, attendance at P.T.A. meetings, faculty meetings, if invited, and participate as faculty members in as many of the activities of the school and community as possible.
9. Attendance is expected at a series of seminar meetings related to the teaching practicum. Details are distributed through the Office of the Director of Student Teaching.

APPLICATION FOR ASSIGNMENT

Assignments for teaching practicum are made in the public schools in the area, in the public schools of the Chicago area and in the campus laboratory school.

1. A winter quarter meeting is scheduled by the Director of Student Teaching for all students who plan to enroll in teaching practicum during the ensuing school year. Requests for assignment received from students within ten days of this meeting have priority. Applications submitted after the winter meeting must be made at least one quarter in advance of the quarter in which teaching is desired. Assignments are made by the coordinators and approved by the Director. Students must have clearance with the Principal for any assignment in Buzzard Laboratory School.
2. Students should arrange for their teaching assignments before registering for other subjects. Teaching assignments take priority in the student's schedule. Registration and fees are required as with other regular coursework.
3. A student engaged in teaching practicum is limited to a total load of sixteen quarter hours. The number of hours of outside work permitted is restricted.

GENERAL EDUCATION REQUIREMENTS

A. Specific All-University Requirements are:

	Qtr.	Hrs.
English 120, ¹ 130, 201	12	
Speech 131 ²	4	
Health Education 120 ³	4	
Physical Education Service Courses	6	
	26	

These all-university requirements should be completed within the first six quarters of residence in the University and students will not be allowed senior standing before their completion.

B. Distribution Requirements. The purpose of the distribution requirements is to give the student a widely-based general education by requiring him to take courses in several broad areas. Depending upon his previous background and achievement, however, the student may be exempt from some of the distribution requirements.

Exemption System. It is the policy of the University to recognize academic achievement in high school by allowing students, if they wish, to take certain exemptions from distribution requirements for acceptable high school units. An acceptable unit consists of two semesters of high school work in the same subject taken five periods each week with at least a B average. Acceptable units do not reduce the total number of hours required for graduation but they may

¹A score on the English section of the ACT examination that places the student at the 96th percentile level or higher in accordance with the norms for college-bound high school seniors published each year by the American College Testing Program qualifies him to elect exemption from English 120.

²A student with an acceptable unit in a high school speech course may be exempt from Speech 131.

³Not required of majors in home economics and Pre-Medicine.

exempt a student from some of the hours in a particular distribution, thus freeing him to take another course or courses of his own choice. Allowable exemptions for all undergraduate degrees are:

Foreign Languages. Two or more acceptable units in a single foreign language exempt the student from 12 hours of the language requirement. A student with less than two acceptable units in a single foreign language will be properly placed and will have completed 12 quarter hours of the requirement when he passes the third quarter course of the first year in a language or any higher numbered course in the language, or when he passes a qualifying examination on the first full year of the language. Regardless of the number of acceptable units, a student will have completed a 24 hour requirement when he has passed the third quarter course of the second year or a higher course or has passed a qualifying examination in the first two full years of the language.

History and Social Studies. One or more acceptable units reduce the requirement by four quarter hours. When such an exemption is taken in the Professional Degrees, the requirement of 12 quarter hours in any one subject is reduced to eight quarter hours.

Humanities. One or more acceptable units reduce the requirement by four quarter hours. B.S.Ed. candidates may use a foreign language to satisfy no more than and no less than 12 quarter hours of this requirement; see foreign language exemptions above.

Natural Sciences. Two acceptable units in a single natural science field, biological science or physical science, reduce the requirement in that field by 12 quarter hours. One acceptable unit in one field or an acceptable unit in each of the two fields reduces the requirement in the appropriate or chosen field by four quarter hours, and the requirement may be filled by at least 12 hours in the field in which the exemption is not taken plus the hours remaining to satisfy the field in which the exemption is taken. Regardless of exemptions, all students must take at least 12 hours in a single natural science field except that students in the School of Elementary and Junior High School Teaching must take eight hours in each field.

Mathematics. One or more acceptable units in mathematics beyond the first two years of college preparatory mathematics reduce the requirements by a maximum of four quarter hours for each acceptable unit. Algebra, plane geometry, solid geometry, trigonometry, and certain courses determined by the Department of Mathematics are college preparatory courses.

COURSES WHICH SATISFY DISTRIBUTION REQUIREMENTS

(See Chart on next page)

The following list comprises the specific courses which count toward filling the general education distribution requirements. While any individual course on the list may apply to a distribution requirement, it is highly recommended that courses be taken in the sequences shown below.

BIOLOGICAL SCIENCES:

Life Sci. 100, Bot. 101, Zoo. 101
 Life Sci. 100, Zoo. 101, Bot. 101
 Life Sci. 100, Bot. 101, Bot. 102
 Life Sci. 100, Zoo. 101, Zoo. 212
 Life Sci. 100, Zoo. 101, Zoo. 225
 Life Sci. 100, Zoo. 225, Zoo. 348
 Life Sci. 100, Bot. 101, L.S. 201
 Life Sci. 100, Zoo. 101, L.S. 201
 Life Sci. 100, Bot. 101, Bot. 234
 Life Sci. 100, Zoo. 101, Bot. 234

HISTORY AND SOCIAL STUDIES:

Hist. 233, 234, 235, 381, 382
 Hist. 254, 255, 256, 257
 Hist. 343, 344, 345
 Econ. 254, 255, 353
 Econ. 254, 255, 256
 Econ. 357 (for Industrial Tech. majors only)
 Econ. 486 (for Recreation majors only)
 Geog. 150, 151 or 302, 360
 Geog. 150, 360, 362
 Geog. 150, 300, 301
 Pol. Sci. 100, 110, 111
 Pol. Sci. 220, 240, 260
 Psych. 231, 234, 350 or 352
 Psych. 231, 234, 359 or 451
 Psych. 231, 261, 381
 Psych. 231, 351, 353
 Psych. 231, 359, 451 or 455
 Psych. 231, 362, 462
 Soc. 271, 272, 473
 Soc. 271, 272, Anthro. 273
 Soc. 271, 365, 381
 Soc. Sci. 440, 441

HUMANITIES:

Art 100, 110, 111 (for Art majors and minors, Ind. Arts, and Industrial Tech. majors only)
 Art 140 (for Elem. and JHS majors only)
 Art 165, 265, 266
 Art 330
 Art 360, 361, 362
 Engl. 245, 246, 247
 Engl. 250, 251, 252, 255
 Engl. 260, 261, 262, 263
 Engl. 310, 333, 360, 379
 Engl. 336, 337, 338
 Engl. 361, 362, 363

HUMANITIES—(CONTINUED)

Engl. 380, 381, 382
 Engl. 470, 471, 472, 480
 Classics 460, 461
 Music 120 (for Elem. & JHS majors only)
 Music 328 (for Elem. majors only)
 Music 130, 131, 132 (for music majors and minors only)
 Music 221, 222, 225 (for Elem. majors only)
 Music 229 or 220, 323, 324
 Music 320, 321, 322
 Phil. 250, 301, 402, or 404
 Phil. 301, 305, 306
 Phil. 250, 270, 330 or 410
 PEW 396
 PEW 223, 224 (for PEW majors and minors only)
 Speech 230, 232, 453
 Th. Arts 133, 240, 333
 Th. Arts 460, 462, 464
 Approved For. Lang. literature courses (see p.187)
 Courses in applied music, band, orchestra, and chorus may satisfy not more than 12 quarter hours of humanities in any degree.

PHYSICAL SCIENCES:

Chem. 110, 111, 112 (for non-science majors only)
 Chem. 120, 121, 122
 Chem. 150, 151, 152
 Geol. 140, 243, 245 or 244
 Geol. 140, 245 or 345, 346
 Physics 110, 111, 112
 Physics 121, (for speech majors and minors only)
 Physics 110, Chem. 120, Geol. 140
 Physics 130, 131, 132
 Chem. 110, Physics 100 (for Elem. and JHS majors only)

MATHEMATICS:

Math. 122, 123, 222, 322 (for Elem. and JHS majors only)
 Math. 125, 126
 Math. 129, 210, 211
 Math. 130, 131, 132, 134, 135
 Math. 234

Distribution Requirements

(Note that this table is

LIBERAL ARTS DEGREES

Degree:

Bachelor of Arts

Bachelor of Science

Foreign

24 quarter hours*12 quarter hours*

Languages

24 hours in a single language or completion of the third quarter course of the second year or higher course. See Humanities below.

12 hours in a single foreign language or completion of the third quarter or higher course.

History and

*20 quarter hours**20 quarter hours*

Social Studies

8 quarter hours in history and 12 quarter hours in one or more of the social studies: economics, geography, anthropology, and sociology, political science, psychology.

Same as B.A. requirement

Humanities

*16 quarter hours**12 quarter hours*

Total hours must be met from more than one of these subjects: art, dance, music, literature, philosophy, speech, th. arts. Approved foreign language literature courses may not count both as literature and foreign language.

Total hours must be met in the same manner as the B.A. requirement.

Mathematics

*4 quarter hours**8 quarter hours*

(See page 97)

(See page 97)

Natural

*12 quarter hours**24 quarter hours*

Sciences

12 hours in biological sciences life sciences, botany, zoology-or 12 hours in physical sciences chemistry, geology, physical science, physics.

12 hours in biological sciences and 12 hours in physical sciences.

APPROVED COURSES FOR DISTRIBUTION REQUIREMENTS

*The foreign language requirement may be met through presentation to the Dean of Student Academic Services satisfactory documentary evidence substantiating achievement at the two year college level in the Bachelor of Arts degree and at the first year college level in the Bachelor of Science degree in a tongue other than the student's mother tongue.

for Undergraduate Degrees

based on no exemptions.)

PROFESSIONAL DEGREES

Degree:	B.Mus., B.S.Bus., B.S.Ed., B.S.Home Ec., B.S.Tech., B.S.Rec., B.S. (Engineer, Med.Tech. & Pre-Med.)
Foreign Languages	No requirement but foreign language may be used to satisfy 12 hours of humanities requirement upon completion of the third quarter or higher course.
History and Social Studies	<i>20 quarter hours</i> At least 12 hrs. in one of the following: history, economics, geography, anthropology and sociology, political science, psychology. Regardless of exemptions, B.S.Ed. candidates must take 4 q. hrs. in U.S. history or U.S. government.
Humanities	<i>16-20 quarter hours</i> Option I: 12 hours in a foreign language plus 8 hours in art, dance, literature, music, philosophy, speech, theatre arts. Option II: A total of 16 hours in more than one of these subjects: art, dance, literature, music, philosophy, speech, theatre arts.
Mathematics	<i>4 quarter hours</i> (See page 97)
Natural Sciences	<i>12 quarter hours</i> 12 hours in either biological sciences or in physical sciences. Students in elementary and junior high sch. program must have 8 hrs. in biol. sciences and 8 hrs. in physical sciences.

ARE LISTED ON THE PRECEDING PAGE

SPECIALIZATION AND CHOOSING A MAJOR

CHOOSING A MAJOR

Each graduate must complete a major in an academic discipline, and for some programs, must also complete a minor. Students may choose a major at any registration for their first four quarters and must choose a major by registration for their fifth quarter or by the time they have earned 68 quarter hours, whichever is earlier. In certain areas, such as elementary education, music, physical education for women, and speech correction, the decision should be made upon entering the University.

At the time of entering the University, some freshmen students will have already made a definite, considered decision concerning the discipline in which they wish to major. These students should indicate this decision on the proper forms and to their advisors. Many other freshmen, however, are not yet ready to make a firm choice of their major field of study and wish to delay this decision until they have explored several general areas of learning. Such delay is made possible by choosing, during the first three or four quarters in the University, a general program of courses, all of which are required for graduation but which do not commit the student to a definite major. Typical examples of such programs for the freshman year are:

A. B.A. Candidates.

English 120, English 130, Speech 131	12 qtr. hrs.
Natural Science	12 qtr. hrs.
Foreign Language	12 qtr. hrs.
History or Social Studies, Health Ed. 120	12 qtr. hrs.
Physical Education	3 qtr. hrs.

B. B.S. Candidates.

Speech 131, English 120, English 130	12 qtr. hrs.
Natural Science	12 qtr. hrs.
Mathematics, Health Education 120	12 qtr. hrs.
Foreign Language	12 qtr. hrs.
Physical Education	3 qtr. hrs.

C. Professional Degree Candidates.

English 120, Speech 131, English 130	12 qtr. hrs.
Natural Science	12 qtr. hrs.
Health Ed. 120, Mathematics, Humanities Subject	12 qtr. hrs.
History or Social Studies	12 qtr. hrs.
Physical Education	3 qtr. hrs.

SPECIALIZATION

Specializations offered in the various undergraduate degrees are shown below:

Degrees and Fields of Study

BACHELOR OF ARTS

Majors:

Afro-American Studies	Philosophy
Art History	Physics
Economics	Political Science
English	Psychology
French	Sociology
Geography	Spanish
German	Speech
History	Speech Pathology and Audiology
Latin	Theatre Arts
Mathematics	Zoology
Music	

BACHELOR OF MUSIC**Options:**

Performance: (String or Wind; Keyboard; or Vocal)
 Music Theory and Composition
 Music History and Literature

BACHELOR OF SCIENCE**Majors:**

Afro-American Studies	Physical Education, Men
Art Studio	Physics
Botany	Political Science
Chemistry	Psychology
Economics	Sociology
Geography	Speech
Geology	Speech Pathology and Audiology
History	Theatre Arts
Mathematics	Zoology
Philosophy	

BACHELOR OF SCIENCE IN BUSINESS**Majors:**

Accounting	Marketing
Finance	Secretarial
Management	

Minor: Institutional Food Management

BACHELOR OF SCIENCE IN EDUCATION**Majors:**

Art	Latin
Botany	Manual Arts Therapy
Business	Mathematics
Chemistry	Music
Elementary Education	Physical Education, Men
Elementary Education—Special Education	Physical Education, Women
Elementary Education—Speech Correction	Physics
English	Psychology
French	Social Science
Geography	Spanish
German	Speech
History	Speech Pathology and Audiology
Home Economics	Theatre Arts
Industrial Arts	Zoology
Junior High School Education	

Minors:

Afro-American Studies	English
Art	French
Biological Science	Geography
Botany	German
Business	Health Education
Chemistry	History

Home Economics
Industrial Arts
Journalism
Latin
Library Science
Mathematics
Music
Physical Education
Physics

Psychology
Russian
Safety and Driver Education
Social Science
Spanish
Speech
Theatre Arts
Zoology

BACHELOR OF SCIENCE IN HOME ECONOMICS

Majors:

Dietetics
Family Services
Home Economics in Business

BACHELOR OF SCIENCE IN INDUSTRIAL TECHNOLOGY

Options:

Electricity and Electronics
Construction
Metalwork

BACHELOR OF SCIENCE IN RECREATION

BACHELOR OF SCIENCE (ENGINEERING)*

BACHELOR OF SCIENCE (MEDICAL TECHNOLOGY)*

BACHELOR OF SCIENCE (PRE-MEDICINE)*

BACHELOR OF ARTS AND BACHELOR OF SCIENCE

These degrees are conferred upon successful completion of 190 quarter hours, including general education requirements and one of the majors outlined below.

Students who desire the B.A. or B.S. degree and who also wish to prepare for high school teaching in a single field should note that a course in U.S. history or government is required for certification and that Psychology 231 is a prerequisite for required professional education courses. These students must comply with the regulations governing admission to teacher education (page 92) and must complete the professional education course requirements for secondary teachers (page 124). Appropriate teaching fields bear an asterisk and curricula pertaining to teacher preparation are shown below the regular B.A. or B.S. major.

General Education Requirements (see page 95)

Afro-American Studies (B.A. or B.S.)

Major:

Art 330	4	qtr. hrs.
English 255	4	
History 381, 382, 494	12	
Music 220	4	
Sociology 271, 381, 474	12	
Five courses from: Anthropology 273, 363, Geography 459, 458, Music 323, Political Science 335, 372, 452, 480, Sociology 272, 365, 472	20	
Total	56	qtr. hrs.

(Major GPA based on specific required courses.)

▪ Cooperative degrees.

Art**Major—Art History: (B.A.)**

Art 160, 260, 261, 262, 363, 364, 365, and 475	32 qtr. hrs.
Art 165, 265, and 266; or any three studio courses	12
Electives chosen from: Art 366, 367, 368, 369, 469, 476, or 477	20
Total	64 qtr. hrs.

Major—Art Studio (B.S.)

Art 100, 101, 110, 111, 160, 205, 225, 260, 261, 262, 270, and 310	48 qtr. hrs.
Sixteen quarter hours in advanced courses selected from one of the following areas: (1) art history; (2) painting, drawing, and printmaking; (3) sculpture and ceramics; (4) crafts—weaving, ceramics, jewelry; (5) commercial art and lettering	16
Total	64 qtr. hrs.

Botany (B.S.)**Major:**

Life Science 100, 201; Botany 101, 102, 229, 230, 354	28 qtr. hrs.
From Group I botany courses	8
From Group II botany courses	8
From Group I, II, or III botany courses	12
Correlative courses:	56 qtr. hrs.
Zoology 101	4 qtr. hrs.
Chemistry 150, 151, 152 (or 120, 121, 151, 152) ¹ ; 243	16
Either Geography 141 or Geology 140	4
Electives in chemistry, geology, mathematics, physics, or zoology beyond the above requirements of correlative courses and courses in mathematics used to satisfy general education distribution requirements	12
Total, including correlative courses	36 qtr. hrs.
Total, including correlative courses	92 qtr. hrs.

(Major GPA based on Life Science 100, 201, and botany courses only.)

Note: The three groups are listed on page 162.

Botany (B.S.)*Major:**

Candidates preparing for teacher certification must take:

Life Science 100, 201, 340	12 qtr. hrs.
Botany 101, 102, 229, 230, 354	20
From Group I botany courses	8
From Group II botany courses	8
From Group I, II, or III botany courses	12
Correlative courses:	60 qtr. hrs.
Zoology 101 and two electives in zoology	12 qtr. hrs.
Chemistry 150, 151, 152 (or 120, 121, 151, 152) ² ; 243	16
Geography 141 or Geology 140	4
Elective in chemistry, geology, mathematics, physics, or zoology beyond above requirements and courses in mathematics used to satisfy general education distribution requirements	4
Total including correlative courses	36 qtr. hrs.

Total including correlative courses 96 qtr. hrs.
(Major GPA based on Life Science 100, 201, 340, and botany courses only.)

¹ If this sequence is chosen, the extra course will count as one of the three electives in physical science, mathematics, or zoology.

² If this sequence is chosen, the extra course will count as the elective in physical science, mathematics, or zoology.

Chemistry (B.S.)**Major¹:**

Chemistry 150 (or 120 and 121), 151, 152	12 qtr. hrs.
Chemistry 283, 284, 285, 330, 400, 401, 461, 470, 491, 492, 493	42
Electives chosen from Chemistry 346, 420, 421, 422, 423, 481, 494	10
	64 qtr. hrs.
Correlative courses:	
Mathematics 134, 135, 235, 236	16 qtr. hrs.
Physics 130, 131, 132	12
	28 qtr. hrs.
Total, including correlative courses	92 qtr. hrs.

(Major GPA based on chemistry courses only.)

Chemistry (B.S.)*Major¹:**

Candidates preparing for teacher certification must take:

Chemistry 150 (or 120 & 121), 151, 152	12 qtr. hrs.
Chemistry 283, 284, 285, 330, 342, 400, 401, 461, 470, 491, 492, 493	43
Physical Science 340	4
Electives chosen from Chemistry 346, 420, 421, 422, 423, 481, 494	10
	69 qtr. hrs.

Correlative courses:

Mathematics 134, 135, 235, 236	16 qtr. hrs.
Physics 130, 131, 132	12
	28 qtr. hrs.

Total, including correlative courses

97 qtr. hrs.

(Major GPA based on Physical Science 340 and chemistry courses only.)

Economics (B.A. or B.S.)**Major:**

Economics courses including 460, 462, 466	48 qtr. hrs.
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English (B.A.)**Major:**

Courses in English (exclusive of English 120, 130, 201, 322, 340, 459) so selected that each of the twelve groups is represented and with a minimum of four courses from one group	60 qtr. hrs.
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Note: The twelve groups are listed on pages 181-182, and are indicated in the course descriptions.***English (B.A.)****Major:**

Candidates preparing for teacher certification must take:

Courses in English (exclusive of English 120, 130, 201, 322, 340, 459) so selected that each of the twelve groups is represented and with a minimum of four courses from one group. Group I must include both English 221 and 320; Group II must include English 224 or 355 or 356	60 qtr. hrs.
English 340	4
Total	64 qtr. hrs.

¹Satisfies the standards established by the Committee on Professional Training of the American Chemical Society. Students who complete this program will be certified to the American Chemical Society.

Foreign Language (B.A.)**Major (French, German, Latin, Spanish):**

Courses in one language more advanced than the first twenty quarter hours of college work in that language	48 qtr. hrs.
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Foreign Language—French (B.A.)*Major:**

Candidates preparing for teacher certification must take:

French 330, 331, 332, 340	16 qtr. hrs.
Electives chosen from French 232, 350, 351, 352, 410, 411, 412, 456, 457, 458, 510, 511, 512	36
	52 qtr. hrs.

Correlative courses:

History 233 or 235; 256 or 257	8 qtr. hrs.
Total, including correlative courses	60 qtr. hrs.

(Major GPA based on French courses only.)

Foreign Language—German (B.A.)*Major:**

Candidates preparing for teacher certification must take:

German 340, 354, 361, 410	16 qtr. hrs.
Electives chosen from German 235, 353, 355, 362, 363, 411, 412, 453, 454, 455, 510, 511, 512	36
	52 qtr. hrs.

Correlative courses:

History 235, 257	8 qtr. hrs.
Total, including correlative courses	60 qtr. hrs.

(Major GPA based on German courses only.)

Foreign Language—Latin (B.A.)*Major:**

Candidates preparing for teacher certification must take:

Electives chosen from Latin 222, 320, 321, 322, 330, 331, 332, 433, 434, 435, 450, 451, 452, 510, 511, 512	48 qtr. hrs.
Latin 340	4
	52 qtr. hrs.

Correlative courses:

History 233 or 234 or 235; 254	8 qtr. hrs.
Total, including correlative courses	60 qtr. hrs.

(Major GPA based on Latin courses only.)

Foreign Language—Spanish (B.A.)*Major:**

Candidates preparing for teacher certification must take:

Spanish 327, 340, 410, 415	16 qtr. hrs.
Electives chosen from Spanish 232, 321, 322, 323, 325, 326, 411, 456, 457, 458, 510, 511, 512	36
	52 qtr. hrs.
Correlative courses:	
History 233, 234	8 qtr. hrs.
Total, including correlative courses	60 qtr. hrs.

(Major GPA based on Spanish courses only.)

Geography (B.A. or B.S.)**Major:**

From Geology 140, Geography 141, 142	4 or 8 qtr. hrs.
Geography 150	4
Geography 151 or 302; one additional course in regional geography	8
Geography 360 or 362	4
Geography 380, 490	8
Electives in geography approved by the head of the department, to include at least 8 hours in courses numbered 300 or above	20 or 16
Total	48 qtr. hrs.

(Major GPA based on geography and geology courses only.)

Geography (B.A. or B.S.)*Major:**

Candidates preparing for teacher certification must take:

Geography 141 or 142, 150, 151 or 302, 340, 360 or 362, 380, 490	28 qtr. hrs.
One course in regional geography	4
Electives in geography approved by the department head (must include at least 8 q. hrs. in courses numbered 300 or above)	20
	52 qtr. hrs.
Correlative courses:	
Economics 254, 255	8 qtr. hrs.
Total, including correlative courses	60 qtr. hrs.

(Major GPA based on geography courses only.)

Geology (B.S.)**Major:**

Geology 140, 243, 244, 245, 343, 344, 345, 449	32 qtr. hrs.
Electives chosen from Geology 346, 440, 441, 445, 447, Geography 242, 380, 480, 490	16
	48 qtr. hrs.

Correlative courses:

Chemistry 120, 121, 122; or 150, 151, 152	12 qtr. hrs.
Life Science 100, Botany 101, Zoology 101	12
Physics 130, and 131 or 132	8
Mathematics 130, 131, 134	12
Total, including correlative courses	44 qtr. hrs.
	92 qtr. hrs.

(Major GPA based on geography and geology courses only.)

History (B.A. or B.S.)

Major:

History 233, 234, 235, 254, 255, 256, 257	28 qtr. hrs.
Electives in history numbered above 300	28 qtr. hrs.
Total	56 qtr. hrs.

***History (B.A. or B.S.)**

Major:

Candidates preparing for teacher certification must take:

History 233, 234, 235, 254, 255, 256, 257	28 qtr. hrs.
Electives in history numbered 300 or above to include at least 8 q. hrs. in American and 8 q. hrs. in non-American history	28
Social Science 340	4
Total	60 qtr. hrs.

(Major GPA based on Social Science 340 and history courses only.)

Mathematics (B.A. or B.S.)

Major:

Mathematics 134, 135, 235, 236, 237, 344, 353, 354; 232 or 231	33 or 36 qtr. hrs.
Electives chosen from Mathematics 327, 350, 351, 357, 449, 455, 458, 460, 461, 470, 471, 491, including at least two of the sequences 350- 351, 460-461, 470-471	24
Total	57 or 60 qtr. hrs.

***Mathematics (B.A. or B.S.)**

Major:

Candidates preparing for teacher certification must take:

Mathematics 134, 135; 232 or 231; 235, 236, 237, 327, 328, 340, 344, 353, 354, 470, 471	53 or 56 qtr. hrs.
One of the following sequences: Mathematics 350-351, or 460-461	8
Total	61 or 64 qtr. hrs.

Music (B.A.)

Major:

Music 130, 131, 132, 230, 231, 232, 347 or 454 or 455, 351, 352, 353, 447	44 qtr. hrs.
Studies in performance and composition (applied music)	12
Electives in music	4
Minimum ensemble requirement	6
(A maximum of nine quarter hours may be submitted toward graduation.)	
Total	66 qtr. hrs.

Philosophy (B.A. or B.S.)**Major:**

Philosophy 250, 270, 301, 305, 306, and 448	24 qtr. hrs.
Electives in philosophy approved by the department	24
Total	48 qtr. hrs.

Physical Education Men (B.S.)**Major:**

PEM 120, 121, 150, 244, 431, 432, 433	28 qtr. hrs.
One course chosen from PEM 203, 205, 206, 207, 208	2
One course chosen from PEM 210, 211, 212, 213, 214, 215, 216, 217, 240	2
Electives in Health Education, PEM, or PEW	12
Sixteen quarter hours chosen from one concentration	16
Total	60 qtr. hrs.

Recreation Concentration: PEW 132, 356, PEM 228, 351, 378, 471, 474, 476, 479.

Health Concentration: Health Education 227, 300, 320, 480.

Technique and Coaching Concentration: PEM 347, 348, 349, 350, 358, 360, two 200-level technique courses.

Safety and Driver Education Concentration: Health Education 330, 331, 332, 335.

Interdisciplinary Concentration: To be arranged with the advisor and receive departmental approval.

(Major GPA based on physical education course only.)

Physics (B.A. or B.S.)**Major:**

Physics 130, 131, 132	12 qtr. hrs.
Physics 236, 239, 240, 341, 342, 466, 467	28
Electives in physics numbered 200 or above	16
Total	56 qtr. hrs.
Mathematics courses including differential equations or advanced calculus are prerequisite to advanced work in physics. At least twelve quarter hours in chemistry is desirable.	

(Major GPA based on physics courses only.)

Physics (B.A. or B.S.)*Major:**

Candidates preparing for teacher certification must take:

Physics 130, 131, 132, 236, 239, 240, 341, 342, 461, 466, 467	44 qtr. hrs.
Electives in physics numbered 200 or above	12
Physical Science 340	4
	60 qtr. hrs.

Correlative courses:

Mathematics 134, 135, 235, 236, 237, and two of Mathematics 350, 351, 460, 461	28 qtr. hrs.
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Total, including correlative courses	88 qtr. hrs.
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(Major GPA based on Physical Science 340 and physics courses only.)

Political Science (B.A. or B.S.)**Major:**

Political Science 100, 110, 111, 200, 220, 240, 260, 350, 495	32 qtr. hrs.
One of Political Science 330, 331, 332, 333, 334, 335, 336, 480	4
One of Political Science 371, 372, 373, 374, 475	4
One of Political Science 490, 491, 492, 493	4
Electives in political science	12
Total	56 qtr. hrs.

Political Science (B.A. or B.S.)*Major:**

Candidates preparing for teach certification must take:

Political Science 100, 110, 111, 200, 220, 240, 260, 350, 495	32 qtr. hrs.
One of Political Science 330, 331, 332, 333, 334, 335, 336, 480	4
One of Political Science 371, 372, 373, 374, 475	4
One of Political Science 490, 491, 492, 493	4
Electives in political science	12
Social Science 340	4
	60 qtr. hrs.

Correlative courses:

Electives in U.S. history	12 qtr. hrs.
Total, including correlative courses	72 qtr. hrs.

(Major GPA based on Social Science 340 and political science courses only.)

Psychology (B.A. or B.S.)**Major:**

Psychology 231, 234, 261; 381 or 382	16 qtr. hrs.
Electives in psychology	32
Total	48 qtr. hrs.

Psychology (B.A. or B.S.)*Major:**

Candidates preparing for teacher certification must take:

Psychology 231, 234, 261, 340; 381 or 382	20 qtr. hrs.
Electives in psychology	32
Total	52 qtr. hrs.

Sociology (B.A. or B.S.)**Major:**

Sociology 271, 272, 452, 461, 490 or 491; Anthropology 273	24 qtr. hrs.
Electives in sociology approved by the head of the department	24
Total	48 qtr. hrs.

(Major GPA based on Anthropology 273 and sociology courses only.)

Sociology (B.A. or B.S.)*Major:**

Candidates preparing for teacher certification must take:

Sociology 271, 272, 452, 461, 490 or 491	20 qtr. hrs.
Electives in sociology	24
Anthropology 273	4
Social Science 340	4
	52 qtr. hrs.

Correlative courses:

Electives in U.S. history	12 qtr. hrs.
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Total, including correlative courses	64 qtr. hrs.
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(Major GPA based on Anthropology 273, Social Science 340, and sociology courses only.)

Speech (B.A. or B.S.)**Major:**

Courses chosen from the following:

Speech 140, 230, 232, 234, 252, 254, 317, 320, 323, 330, 352, 354, 400, 447, 452, 453, 470, 480, Theatre Arts 132, 133, any three of Speech 101, 102, 103, 301, 302, 303	56 qtr. hrs.
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(Major GPA based on Theatre Arts 132, 133, and speech courses only.)

Speech (B.A. or B.S.)*Major:**

Candidates preparing for teacher certification must take:

Three of the following: Speech 101, 102, 103, 301, 302, 303	3 qtr. hrs.
Speech 230, 232, 234, 252, 340	20

One of the following options:

- a. Three courses from Speech 320, 453, 470, 480
- b. Three courses from Speech 470; 352 or 452; 320 or 480; 490
- c. Three courses from Speech 352; 452; 453 or 470 or 490

Electives in speech approved by the department head	12
	17
	52 qtr. hrs.

Correlative courses:

Theatre Arts 132, 133, 257, 445	16 qtr. hrs.
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Total, including correlative courses	68 qtr. hrs.
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(Major GPA based on Theatre Arts 132, 133, 257, 445, and speech courses only.)

Speech Pathology and Audiology (B.A. or B.S.)**Major:**

Speech Pathology and Audiology 254, 255, 260, 262, 263, 362, 402, 403, 405, 408	40 qtr. hrs.
Speech Pathology and Audiology 457	4
Theatre Arts 132	4
Total	48 qtr. hrs.

(Major GPA based on Theatre Arts 132 and speech pathology and audiology courses only.)

Theatre Arts (B.A. or B.S.)**Major:**

Theatre Arts 101, 102, 103, 132, 133, 240, 244, 257, 333, 445, 460, 462, 464	43 qtr. hrs.
Electives in theatre arts	8
Total	51 qtr. hrs.

Theatre Arts (B.A. or B.S.)*Major:**

Candidates preparing for teacher certification must take:

Theatre Arts 101, 102, 103, 132, 133, 240, 244, 257, 333, 357, 358, 445, 460, 462, 464	51 qtr. hrs.
Correlative courses:	
Speech 232, 234, 340	12 qtr. hrs.
Total, including correlative courses	63 qtr. hrs.

Major GPA based on Speech 232, 234, 340, and theatre arts courses only.)

Zoology (B.A. or B.S.)**Major:**

Life Science 100, 201	8 qtr. hrs.
Zoology 101, 212, 214, 215, 336, 343, 350, 445	32
Electives in zoology	12
	52 qtr. hrs.
Correlative courses:	
Botany 101	4 qtr. hrs.
Chemistry 120, 121, 122; (or 150, 151, 152); 243	16
Electives in chemistry, mathematics, or physics beyond the required sixteen quarter hours in chemistry and the course or courses in mathematics used to satisfy the general education distribution requirements	8
	28 qtr. hrs.
Total, including correlative courses	80 qtr. hrs.

(Major GPA based on Life Science 100, 201, and zoology courses only.)

Zoology (B.A. or B.S.)*Major:**

Candidates preparing for teacher certification must take:

Life Science 100, 201, 340	12 qtr. hrs.
Zoology 101, 212, 214, 215, 336, 343, 350, 445	32
Electives in advanced zoology courses	12
	56 qtr. hrs.
Correlative courses:	
Botany 101, and two electives in botany	12 qtr. hrs.
Chemistry 120, 121, 122; (or 150, 151, 152); and Chemistry 243	16
Electives in chemistry, mathematics, or physics beyond above requirements and courses in mathematics used to satisfy general education distribution requirements	8
	36 qtr. hrs.
Total, including correlative courses	92 qtr. hrs.

(Major GPA based on Life Science 100, 201, 340, and zoology courses only.)

BACHELOR OF MUSIC

The degree, Bachelor of Music, is conferred upon completion of 190 quarter hours, including courses which satisfy two sets of requirements—general education requirements and specialization.

General Education Requirements* (see page 95)	66 qtr. hrs.
*General requirements	78 qtr. hrs.
Humanities Requirement (satisfied by music)	12 qtr. hrs.
	66 qtr. hrs.

Specialization

The specialization for the degree, Bachelor of Music, provides for five options: Performance in String or Wind Instrument, Keyboard, Vocal, Music Theory-Composition, and Music History-Literature. The core requirements are:

Music 130, 131, 132, 230, 231, 232	24 qtr. hrs.
Music 447, 448	6
Music 151, 152	4
Music 351, 352, 353	12
Music 250, 251, or 252	9 (minimum)
Total	55 qtr. hrs.

Option I—Performance in String or Wind Instrument

Primary Instrument	48 qtr. hrs.
Music 126, 127, 128	3
Music 347, 348	8
Music 260, 360	4
Electives in Music	6
Total	69 qtr. hrs.

Option II—Performance in Keyboard

(1) Piano Primary—Music 018	48 qtr. hrs.
Music 246, 247, 248	3
Music 362	4
Electives in music	14
Total	69 qtr. hrs.
(2) Organ Primary—Music 019	48 qtr. hrs.
Music 246, 247, 248	3
Music 461, 462	8
Music 464	4
Electives in music	6
Total	69 qtr. hrs.

Option III—Performance in Vocal

Primary Voice—Music 001	48 qtr. hrs.
Music 126, 127, 128, 226, 227, 228	6
Music 243, 244, 245	3
Electives chosen from Music 255, 355, 372, 467, 468, 469	12
Total	69 qtr. hrs.

Option IV—Music Theory-Composition

Primary Instrument or Voice ¹	24 qtr. hrs.
Music 126, 127, 128, 226, 227, 228	6
Music 461, 462	8
Music 347, 348	8
Music 021 and approved electives in music	20
Electives in music	3
Total	69 qtr. hrs.

¹ If piano should be the primary applied, then voice or another instrument may be substituted for the secondary piano requirement (6 qtr. hrs.).

Option V—Music History-Literature

Primary Instrument or Voice ²	24 qtr. hrs.
Music 126, 127, 128, 226, 227, 228	6
Approved electives in music history-literature	20
Music 347, 348	8
Music 461, 462	8
Electives in music	3
Total	69 qtr. hrs.

Note: A maximum of nine quarter hours in ensemble credit may be submitted toward graduation requirements. Performance and composition majors are encouraged to participate in at least one ensemble during each quarter of residence.

BACHELOR OF SCIENCE IN BUSINESS

The degree, Bachelor of Science in Business, is conferred upon successful completion of a curriculum consisting of two sets of requirements, general education requirements and specialization, together with elective courses.

General Education Requirements (see page 95)

Specialization

Marketing 247; Accounting 230, 231, 232; Management 230, 251, 346, 347, 370, 381	40 qtr. hrs.
Mathematics 128, 129, 210, 211	16
Courses in the major	24-25
Total	80-81 qtr. hrs.

Note: Twelve quarter hours of accounting are required of all majors.

Note: Economics 254, 255, 256 (required as part of the history-social science general requirement) 12 qtr. hrs.

Majors:

Accounting: Accounting 354, 355, 356, 360, 401, 461, 464	25 qtr. hrs.
Finance: Management 371, 372, 420, 484; plus two of the following: Management 390, 439, 483	24 qtr. hrs.
Management*: Management 345, 383; plus one of the following sequences: (382, 434, 435, 436) or (436, 437, 438, 445) or (231, 331, 332, 333)	24 qtr. hrs.
Marketing: Marketing 348, 349, 350, 370, 486, 487	24 qtr. hrs.
Secretarial: Business Education 223, 224, 225; 323; 453; Management 383	24 qtr. hrs.

*Minor: (The School of Business and the School of Home Economics cooperate to offer a minor in Institutional Foods Management for business students with a major in Management. The Management major who fulfills his free electives with courses listed below, will meet the requirements for a minor in Institutional Foods Management:

Home Economics 112, 212, 233, 319, 410, 411; and Management 434 and 490.

Electives

The general requirements and specialization must be supplemented by elective courses to bring the total to 190 quarter hours. Courses in professional education, methods of teaching, techniques of teaching, coaching, officiating or other courses whose titles and/or content indicate that they are designed to qualify students professionally for educational activities in elementary and secondary schools, are not acceptable for the B.S. in Business degree. Students transferring

² If piano should be the primary applied, then voice, another instrument, or music electives may be substituted for the secondary piano requirement.

from other departments to business with the objective of taking the B.S. in Business should have credits evaluated by the Dean, School of Business, before transferring. The electives must be chosen so that at least 92 quarter hours of the 190 submitted for graduation are in courses outside the School of Business

(Major GPA based on: (a) all business courses taken and (b) the courses constituting the specific major.)

BACHELOR OF SCIENCE IN EDUCATION

The degree, Bachelor of Science in Education, is conferred upon successful completion of three sets of requirements—general education requirements, professional education requirements, and specialization requirements. Certain courses may be included in two or more sets of requirements.

General Education Requirements (see page 95)

Curriculum for Elementary School Teachers

This curriculum offers a choice of one of three options: Early Childhood (kindergarten and grades one, two, and three); Intermediate (grades four, five, and six); and Comprehensive (grades one through eight).

One subject area of 16 to 24 quarter hours and another of 12 quarter hours must be selected. Areas of Concentration consist of courses *in addition to general education requirements*.

Courses used to satisfy the requirements in one Area of Concentration may not be used to satisfy the requirements in another Area of Concentration.

REQUIRED COURSES

The following constitutes the list of requirements (including the all-University requirements) in the elementary curriculum. The student and the advisor must cooperate in planning the sequence.

Art 140	4 qtr. hrs.
Life Science 100; Botany 101 or Zoology 101	8
Education 123	2
Education 232, 324, 327, 328, 329, 445	24
Education 441, 442, 443	12
English 120, 130, 201	12
Geography 150	4
Health Education 120	4
History 233 or 234 or 235	4
History 254 or 255 or 256 or 257	4
History elective	4
Mathematics (122 ¹ , 123 ¹ , 322) or (222 ² , 322)	8-10
Music 120, 328	8
Womens Physical Education 360	2
Physics 100 or 110 or 130	4
Chemistry 100 or 120 or 150	4
Psychology 231	4
Speech 131	4
Subject Concentration Area I	16
Subject Concentration Area II	12
Physical Education service courses	6
Humanities (12 qtr. hrs. of a foreign language or 4 qtr. hrs. of Humanities Courses listed on page 97)	4-12
Special requirements for the chosen option below	6-14
Electives, as needed, to complete 190 qtr. hrs.	
Students may offer as elective credit 4 quarter hours earned in choral ensemble.	

¹ Required of students who score below the 75th percentile on the mathematics section of the ACT test or have credit for less than three years of high school mathematics.

² Required of students who score at or above the 75th percentile on the mathematics section of the ACT test and have credit for three years of high school mathematics.

SPECIAL REQUIREMENTS OF OPTIONS**Early Childhood Education**

Mathematics 320; Art 244 or Industrial Arts 224; English 322.

Education 426 is also required if a student wishes to do student teaching in kindergarten.

Intermediate

Mathematics 321; Industrial Arts 225 or Art 244.

Comprehensive

Mathematics 320 or 321, or preferably both; Art 244 or Industrial Arts 224 or 225.

SUBJECT AREAS OF CONCENTRATION

Areas of concentration consist of courses *taken in addition to the General Educational Requirements*. No deviation from courses indicated here is permitted without approval of the Dean of Student Academic Services.

Art**Area I: Choose Option A or B**

Option A. When Art 244 is used to meet professional education requirements: Art 309, 319, and 8 quarter hours electives in art. (Art 465 is recommended as an elective.) Total, 16 quarter hours.

Option B. When Industrial Arts 224 or 225 is used to meet professional education requirements: Art 244, 309, 319, and 4 quarter hours elective in art. (Art 465 is recommended as the elective.) Total, 16 quarter hours.

Area II: Choose Option A or B

Option A. When Art 244 is used to meet professional education requirements: Art 309, 319, and 4 quarter hours art elective. (Art 465 is recommended as the elective.) Total 12 quarter hours.

Option B. When Industrial Arts 224 or 225 is used to meet professional education requirements: Art 244, 309, and 319. Total, 12 quarter hours.

Biological Science

Area I: Botany 101* or Zoology 101*; Botany 102, Zoology 338, and 4 quarter hours elective in either botany or zoology. Total, 16 quarter hours.

Area II: Botany 101* or Zoology 101*; Botany 102, Zoology 338. Total, 12 quarter hours.

*Select course not used to satisfy General Education Requirement.

English

Area I: Four quarter hours from English 221, 320; four quarter hours from English 246, 247; four quarter hours from English 250, 251, 252; four quarter hours elective in English. Total, 16 quarter hours.

Area II: Four quarter hours from English 221, 320; four quarter hours from English 246, 247; four quarter hours from English 250, 251, 252. Total, 12 quarter hours.

Foreign Language

Area I: 16 quarter hours in a single foreign language.

Area II: 12 quarter hours in a single foreign language.

Note: Placement in a foreign language is described in the foreign language section of the course descriptions, Section X.

Foreign Language in The Elementary School

Area I and II: 28 quarter hours in either French or Spanish, including French 340 or Spanish 340 respectively. Total, 28 quarter hours.

General Science

Area I and II: Botany 101 or Zoology 101, Geology 140; eight to twelve quarter hours from: Botany 102, 230, 336, Life Science 201, Zoology 336, 338; twelve to eight quarter hours from: Geography 141 or 301, 142 or 300, Physics 110, 111, 300, Chemistry 110, 111. Total, 28 quarter hours.

Geography

Area I: Four quarter hours from Geography 151, 302, 450; Geography 300; eight quarter hours from electives in geography. Total, 16 qtr. hrs.

Area II: Four quarter hours from Geography 151, 302, 450; Geography 300; four quarter hours in electives in geography. Total, 12 quarter hours.

History

Area I: 16 quarter hours beyond that taken to satisfy General Education Requirements. The 16 hours are to be selected according to the following pattern:

A. Complete a U.S. history sequence, part of which will be taken to meet general education requirements (History 233, 234, 235) or (History 233, 234, 460, 461).

B. Four quarter hours from: History 254, 255, 256, 257, 486.

C. Remaining hours chosen from upper division electives in history. (Recommended electives in History: 378, 379, 381, 382, 464, 465, 486, 496, 499.)

Area II: Four quarter hours from History 233, 234, 235; four quarter hours from History 254, 255, 256, 257, 486; four quarter hours chosen from upper division electives in history. (Suggested electives listed in Area I.) Total, 12 quarter hours.

Home Economics—Health Education

Area II: Health Education 320; Home Economics 461; four quarter hours from Home Economics 300, 319, Health Education 330, 480. Total, 12 quarter hours.

Industrial Arts

Area I: Industrial Arts 224, 225, and eight quarter hours electives in industrial arts. Total, 16 quarter hours.

Area II: Industrial Arts 224, 225, and four quarter hours elective in industrial arts. Total, 12 quarter hours.

Kindergarten Education

Area II: Education 326, 426; four quarter hours from Art 244, Home Economics 353, Music 126, 127, 128, 226, Physical Education Women 362, or Speech Pathology 460. Total, 12 quarter hours.

Library Science

Area I: Library Science 320, 449, 450, 460, 470. Total 20 quarter hours.

Area II: Twelve quarter hours chosen from Library Science 320, 330, 332, 460.

Mathematics

Area I: Mathematics 130, 131, 134, 482. Total, 16 quarter hours.

Area II: Mathematics 130, 131, 134. Total, 12 quarter hours.

Note: Students exempt from Mathematics 130 and/or 131 may select Mathematics 135 or any appropriate course numbered 200 or above.

Mathematics—Science

Area I and II: Eight quarter hours from Mathematics 130, 131, 134, 482; Physics 110; Chemistry 121; Geography 300 or 301; Botany 101* or Zoology 101*; Botany 102 or Zoology 338. Total, 28 quarter hours. *Select course not used to satisfy General Education Requirements.

Music

Area I: Music 221, 222, 225; four quarter hours from Music 126, 127, 128, 136, 137, 138, 226, 227, 228, 236, 237, 238, 320, 321, 322. Total, 16 quarter hours.

Area II: Music 221, 222, 225. Total, 12 quarter hours.

Physical Education

Area I: P.E.W. 361, 362, 363; and one of the following: Health Education 320, P.E.W. 132, 152, 245, 343, 356, 413. Total, 16 quarter hours.

Area II: Physical Education (W) 361, 362, 363. Total, 12 quarter hours.

Physical Science

Area I: (Chemistry 121 and 122) or (Chemistry 150 and 151); (Physics 110 and 111) or (Physics 130 and 131). Total, 16 quarter hours.

Area II: Twelve quarter hours from courses listed for Area I with both Chemistry and Physics being represented. Total, 12 quarter hours.

Note: Students choosing this concentration should take Chemistry 120 or 150 rather than 100; and they should take Physics 130 rather than 100.

Psychology

Area II: 12 quarter hours from Psychology 234, 350, 351, 360, 450, 455, 457. Total, 12 quarter hours.

Social Studies

Area I: Sixteen quarter hours from the following *with at least three disciplines* being represented: Anthropology, Economics, Geography, Political Science, Sociology (Psychology 457 may be included). (The broad social science survey courses offered by some colleges and universities may be used by transfer students to fulfill these requirements.) Total, 16 quarter hours.

Area II: Twelve quarter hours as provided in Area I *with two different disciplines* being represented. Total, 12 quarter hours.

Speech—Theatre Arts

Area I: Sixteen quarter hours from the following with both disciplines being represented: Theatre Arts 132, 133, 333, 431, Speech 230, 232, 330, 453. Total, 16 quarter hours.

Area II: Twelve quarter hours from the following with both disciplines being represented: Theatre Arts 132, 133, 333, 431, Speech 230, 232, 330. Total, 12 quarter hours.

Speech Pathology and Audiology

Area II: Speech Pathology and Audiology 255, 262, 460. Total, 12 quarter hours.

Elementary Education—Special Education

Instead of an Area I and II, students interested in special education may select programs involving the educable mentally handicapped and/or learning disabilities.

Elementary Education—Special Education

Successful completion of this program results in certification both as an elementary teacher and as a special education teacher in the area of the Educable Mentally Handicapped or Learning Disabilities. Sixteen quarter hours of student teaching divided equally between elementary education and special education is required.

REQUIRED COURSES

The following constitutes the list of requirements in this curriculum. The student and advisor will cooperate in planning the sequence.

Art 140	4 qtr. hrs.
Education 123	2
Education 232, 324, 327, 328, 329, 445	24
Education 441, 442, 443, 444	16
English 120, 130, 201	12
Geography 150	4
Health Education 120	4
History 233 or 234 or 235	4
History 254 or 255 or 256 or 257	4
History Elective	4
Life Science 100; Zoology 101 or Botany 101	8
Mathematics (122 ¹ , 123 ¹ , 322) or (222 ² , 322)	8-10
Music 120, 328	8
Physical Education, Women, 360	2
Physics 100 or 110 or 130	4
Chemistry 100 or 120 or 150	4
Psychology 231	4
Speech 131	4
Physical Education service courses	6
Humanities (12 quarter hours of foreign language or 4 quarter hours of humanities courses listed on page 97)	4-12
Courses included in one of the three options listed below	6-14
Special Education requirements listed below	36
Electives, as needed, to complete 190 quarter hours	

SPECIAL REQUIREMENTS OF OPTIONS

Early Childhood Education

Mathematics 320; Art 244 or Industrial Arts 224; English 322. Education 426 is also required if a student wishes to do student teaching in Kindergarten.

Intermediate

Mathematics 321; Industrial Arts 225 or Art 244.

Comprehensive

Mathematics 320 or 321, or preferably both; Art 244 or Industrial Arts 224 or 225.

SPECIAL EDUCATION REQUIREMENTS

Students will select one of the following sets of requirements:

Educable Mentally Handicapped

Speech Pathology and Audiology 260 or 460; Psychology 360, 450, 455; Education 495, 496; 12 quarter hours from (Education 491, Home Economics 260, Health Education 320, Industrial Arts 224 or 225, Psychology 457). Total, 36 quarter hours.

¹ Required of students who score below the 75th percentile on the mathematics section of the ACT test or have credit for less than three years of high school mathematics.

² Required of students who score at or above the 75th percentile on the mathematics section of the ACT test and have credit for three years of high school mathematics.

Learning Disabilities*

Education 497, 498, 499; Education 250 or Psychology 450; Psychology 455; Speech Pathology and Audiology 260 or 460; twelve quarter hours from Psychology 360, 457, Education 466, 495, 496, 491. Total, 36 quarter hours.

*Note: Eight quarter hours of the practicum must be in elementary education and eight quarter hours in learning disabilities.

Curriculum For Elementary Education—Speech Correction

This curriculum requires 200 quarter hours less possible exemptions from the general requirements; therefore, students may expect to take more than twelve quarters to complete the program. Successful completion results in certification as an elementary teacher. This program does not meet the requirements for the Special Certificate in Speech Correction. To prepare for that certificate students must take the approved major for the M.S. in Speech Pathology and Audiology; see the *Graduate Bulletin*.

REQUIRED COURSES

The following constitutes the list of requirements in this curriculum. The student and advisor will cooperate in planning the sequence.

Art 140	4 qtr. hrs.
Art 244 or Industrial Arts 224 or 225	4
Education 123	2
Education 232, 324, 327, 328, 329, 445	24
Education 441, 442, 443	12
English 120, 130, 201	12
Geography 150	4
Health Education 120	4
History 233 or 234 or 235	4
History 254 or 255 or 256 or 257	4
History elective	4
Life Science 100, Zoology 101, 225	12
Mathematics (121 ¹ , 123 ¹ , 322) or (222 ² , 322)	8-10
Mathematics 320 or 321	2
Music 120, 328	8
Physical Education, Women, 360	2
Physics 100 or 110 or 130	4
Chemistry 100 or 120 or 150	4
Psychology 231, 450, 451	12
Speech 131	4
Speech Pathology and Audiology 254, 255, 260, 262, 263, 362, 402, 403, 405, 408, 457	44
Theatre Arts 132	4
Physical Education service courses	6
Humanities (12 quarter hours of foreign language or 4 quarter hours of humanities courses listed on page 97)	4-12
Electives, if necessary, to complete a minimum of 190 quarter hours.	

Curriculum for Junior High School Teachers

This curriculum is intended to prepare teachers for grades seven, eight, and nine. The student must choose a major field of specialization and a minor field of specialization, or three minor fields of specialization.

¹ Required of students who score below the 75th percentile on the mathematics section of the ACT test or have credit for less than three years of high school mathematics.

² Required of students who score at or above the 75th percentile on the mathematics section of the ACT test and have credit for three years of high school mathematics.

REQUIRED COURSES

The following constitutes the list of requirements. The student and the advisor cooperate in planning the sequence.

Education 123	2 qtr. hrs.
Education 232, 311, 312, 445	16
Education 313 or 314 or appropriate methods courses approved by the Dean of the Faculty of Education	4-8
Education 441, 442, 443	12
English 120, 130, 201	12
Geography 150	4
Health Education 120	4
History 233 or 234 or 235	4
History 254 or 255 or 256 or 257	4
History elective	4
Life Science 100; Botany 101 or Zoology 101	8
Mathematics 125	4
Physics 100 or 110 or 130	4
Chemistry 100 or 120 or 150	4
Psychology 231, 352	8
Speech 131	4
Physical Education service courses	6
Major subject field (48 quarter hours) and a minor subject field (30-36 quarter hours), or three minor fields.	78-108
Humanities (12 quarter hours foreign language and 8 quarter hours humanities courses from page 97)or (16 quarter hours of humanities courses from page 97)	16-20
Elective courses, if necessary, to complete a minimum of 190 quarter hours.	

SUBJECT FIELD OF SPECIALIZATION**Art**

Field II: Art 140, 244, 309, 319, 465; select sixteen quarter hours in art. Total, 36 quarter hours.

Biological Science

Field I: Life Science 100, Botany 101, 102, 230, 234; four quarter hours elective in botany; Zoology 101, 212, 336, 338; 348 or 350; four quarter hours elected from botany or zoology. Total, 48 quarter hours.

Field II: Life Science 100, Botany 101, 102, 234; four quarter hours elective in botany; Zoology 101, 333, 348 or 350; four quarter hours elective in zoology. Total, 36 quarter hours

English

Field I: English 120, 130, 201; 250 or another American literature course; Speech 131*; English 221, 320; 246 or 247; 336 or 337 or 338; Library Science 332; eight quarter hours of upper division English electives. Total, 48 quarter hours.

Field II: English 120, 130, 201; 250 or equivalent American literature course; Speech 131*; English 221; 246 or 247; Library Science 332; four quarter hours English electives. (Recommended electives, English 320 or 364.) Total, 36 quarter hours.

*Note: If a student takes the exemption in Speech 131, he may substitute an elective in speech, English or theatre arts.

French

A student with high school foreign language should consult Section X under Foreign Languages for special provisions of placement when continuing a language started in high school. For those without any high school foreign language, the requirements are as follows:

- Field I:** French 130, 131, 132, 230, 231, 232, 350, 351, 352, 340; eight quarter hours French electives selected from 400 level courses. Total, 48 quarter hours.
- Field II:** French 130, 131, 132, 230, 231, 232, 330, 331, 340. Total, 36 quarter hours.

German

A student with high school foreign language should consult Section X under Foreign Languages for special provisions of placement when continuing a language started in high school. For those without any high school foreign language, the requirements are as follows:

- Field I:** German 130, 131, 132, 233, 234, 235, 340; (353, 354, 355) or (361, 362, 363); eight quarter hours selected from 400 level courses. Total, 48 quarter hours.
- Field II:** German 130, 131, 132, 233, 234, 235, 340, 353, 354. Total, 36 quarter hours.

Latin

A student with high school foreign language should consult Section X under Foreign Languages for special provisions of placement when continuing a language started in high school. For those without any high school foreign language, the requirements are as follows:

- Field I:** Latin 120, 121, 122, 220, 221, 222; (320, 321, 322) or (330, 331, 332); 340; eight quarter hours from 400 level courses. Total, 48 quarter hours.
- Field II:** Latin 120, 121, 122, 220, 221, 222; (320, 321) or (330, 331); 340. Total, 36 quarter hours.

Russian

A student with high school foreign language should consult Section X under Foreign Languages for special provisions of placement when continuing a language started in high school. For those without any high school foreign language, the requirements are as follows:

- Field II:** Russian 140, 141, 142, 250, 251, 340, 360, 361, 363. Total, 36 quarter hours.

Spanish

A student with high school foreign language should consult Section X under Foreign Languages for special provisions of placement when continuing a language started in high school. For those without any high school foreign language, the requirements are as follows:

- Field I:** Spanish 130, 131, 132, 230, 231, 232, 321, 322, 323, 340; eight quarter hours selected from courses numbered 400 or above. Total, 48 quarter hours.
- Field II:** Spanish 130, 131, 132, 230, 231, 232, 321, 322, 340. Total, 36 quarter hours.

Geography

- Field II:** Geography 150; 142 or 300; 151 or 302; 360 or 387; Geology 140; sixteen quarter hours from Geography 370, 451, 452, 453, 455, 470. Total 36 quarter hours.

History

- Field II:** History 233, 234, 235; twelve quarter hours from 254, 255, 256, 257; twelve quarter hours from courses numbered 300 or above. Total, 36 quarter hours.

Home Economics

Field II: Home Economics 111, 112, 234, 236, 250, 260, 300, 320; eight quarter hours in home economics electives. Total, 36 quarter hours.

Industrial Arts

Field II: Industrial Arts 101, 106, 111, 116, 121, 225, 340 (prerequisite waived), eight quarter hours from 222, 202, 212, 306. Total, 36 quarter hours.

Library Science

Field II: Library Science 320; 330 or 332; 449; 450; 460; 470; Education 487, 488. Total, 32 quarter hours.

Mathematics

Field I: Mathematics 222 or (122 and 123), 130¹, 131², 134, 135, 235, 327, 470; sixteen quarter hours from courses numbered 200 or higher (Education 314 may be used as an elective). Total, 48-50 quarter hours.

Field II: Mathematics 222 or (122 and 123), 130¹, 131², 134, 135, 327; eight quarter hours from courses numbered 200 or higher. Total, 32-34 quarter hours.

Combined Mathematics—Science

Fields I and II: Mathematics 222 or (122 and 123), 130,* 131,* 134, 235, 327; Physics 130, 131, 132; Chemistry 120, 121, 122 or Chemistry 150, 151, 152; Geology 140; Geography 141 or 301; Geology 243; Life Science 100; Botany 101; Zoology 101; Botany 102 or Zoology 338; and mathematics 20 quarter hours or physics 12 quarter hours or chemistry 12 quarter hours or biological sciences 20 quarter hours or 12 quarter hours from Geography 242, 381, Geology 244, 346, 447. Total, 88-98 quarter hours, including general requirements.

*If student is exempt, select additional mathematics courses.

Physical Education for Men

Field II: Health Education 227; PEM 120, 340, 432; four quarter hours from 203, 205, 206, 207, 208; four quarter hours from 210, 211, 212, 213, 214, 215, 217, 240; eight quarter hours from PEM 121, 244, 351, 433, PEW 132, 356. Total, 32 quarter hours.

Physical Education for Women

Field II: PEW 151, 320, 330, 341, 413, 222, 232, 238, 223, 237, 339; either two two-quarter-hour or one four-quarter-hour course chosen from Health Education, PEM, or PEW; and six activity courses exclusive of PEW 199, with PEW 181 and 1⁰⁴ recommended. Total, 42 quarter hours.

Physical Science

Students selecting physical science as a field of specialization must also select mathematics as a field of specialization. Students selecting this field will *not* need to take Chemistry 100 and Physics 100 unless used in one of the following sequences.

¹ Students admitted to Mathematics 131 on basis of placement test should substitute 225 for 130.

² Students admitted to Mathematics 134 on basis of placement test may substitute for 131 any four-quarter-hour mathematics course numbered above 200 and should substitute 225 for 130.

Field I: Select one of the following sequences:

- (a) Chemistry 100, 121, 122, 234
- (b) Chemistry 120, 121, 122, 234
- (c) Chemistry 150, 151, 152, 234

Plus one of the following sequences:

- (a) Physics 100, 110, 111, 131
- (b) Physics 100, 130, 131, 132
- (c) Physics 110, 111, 131, 132
- (d) Physics 130, 131, 132, 236
- (e) Physics 130, 131, 132, 315

Plus four courses selected from the following:

Chemistry 243, 244, 245, 346, Physics 132, 236, 239, 240, 315.....Total 48 quarter hours.

Field II: Same as Field I except that only one course is selected from the following: Chemistry 243, 244, 245, 346, Physics 132, 236, 239, 240, 315. Total, 36 quarter hours.

Social Studies

Field I: History 233, 234, 235; twelve quarter hours from History 254, 255, 256, 257; Geography 150, 300, 302; four quarter hours political science; four quarter hours economics; four quarter hours anthropology or sociology. Total, 48 quarter hours.

Field II: History 233, 234, 235; twelve quarter hours from History 254, 255, 256, 257; Geography 150, 300, 302. Total, 36 quarter hours.

Speech

Field II: Speech 131*, 230, 232, Theatre Arts 133; four quarter hours from Speech 252, 254, 352, 354; four quarter hours from Speech 317, 320, 323; four quarter hours from Theatre Arts 257, 431, 445; four quarter hours from Theatre Arts 132, Speech 453, 470; four quarter hours from Journalism 210, 460, Speech Pathology and Audiology 254, 460, Theatre Arts 240, 244, or any Speech course exclusive of 330 and 490. Total, 36 quarter hours.

*Note: If a student takes the exemption in Speech 131, he may substitute an elective in speech, English or theatre arts.

Curriculum for High School and Special Area Teachers

The curriculum consists of general education (all University and distribution) requirements, specialization requirements consisting of a major and, except where specified, a minor, and prescribed professional education requirements. Certain courses may be used to satisfy both major or minor and general education distribution requirements.

Certification to teach in a general field (e.g., Business) in Illinois high schools does not necessarily permit the teaching of a specific subject in that field; for details, the student should consult Bulletin Series A, No. 160, Office of Public Instruction.

The prescriptions for majors and minors have been filed with, and approved by, the State Teacher Certification Board. They are used as a basis for cards of entitlement.

General Education Requirements (see page 95)

Professional Education Requirements

The following are the minimum professional education requirements for secondary teachers:

Ed. 331*	Laboratory in Secondary Education	1 qtr. hr.
Ed. 332	Educational Psychology	4 qtr. hrs.
Ed. 333	Instructional Task in Secondary School	4 qtr. hrs.
— —	Teaching Methods Course	4 qtr. hrs.
Ed. 441, 442	Teaching Practicum	8 qtr. hrs.
Ed. 440 or 443	Teaching Practicum	3 or 4 qtr. hrs.
Ed. 445	Philosophy & History of Education	4 qtr. hrs.

Total 28 qtr. hrs.

Notes:

- 1.* Since sufficient pre-student teaching laboratory experiences are included in their curricula, music, physical education, and speech pathology majors may opt to omit Ed. 331, in which case they must complete a minimum of 12 qtr. hrs. in Teaching Practicum.
2. Psychology 231 is a prerequisite for Edu. 332.
3. Speech Pathology majors must substitute Ed. 232 and 324 for Ed. 332 and 333.

MAJORS AND MINORS

Afro-American Studies

Minor:

Music 220	4 qtr. hrs.
English 255	4
Art 330	4
History 381, 382, 494	12
Three courses chosen from Sociology 271, 360, 381, 474, Political Science 110, 111, 372, 452	12
Total	36 qtr. hrs.

Art

Major: (Standard Special Certificate. No minor required.)

Art 100, 101, 110, 111, 160, 205, 225, 260, 261, 262, 270, 340, 341	52 qtr. hrs.
Elective courses in Art*	36
Total	88 qtr. hrs.

- * The elective courses must comprise 24 or 28 quarter hours in a major concentration, complemented by 12 or 8 quarter hours in a minor concentration. These are defined as follows:

Major Area I: Painting, drawing, printmaking

Major Area II: Ceramics, jewelry, sculpture, weaving

Minor Areas: Art history, commercial design, the alternate major area

Study in two phases of the major area is required.

Major: (Standard High School Certificate)

Art 100, 101, 110, 111, 160, 205, 225, 260, 261, 262, 270, 340, 341	52 qtr. hrs.
Elective courses in art	8
Total	60 qtr. hrs.

Minor:

Art 100 or 101; 205; 110 or 111 or 140; 225 or 270 or 334; 244 or 340; 341;
one course chosen from Art 160, 260, 261, 262, 360, 361, 362; four quarter
hours elective credit in art32 qtr. hrs.

Biological Sciences**Minor:**

Life Science 100	4 qtr. hrs.
Botany 101, 102; 234 or 335	12
Zoology 101, 212, 343; 348 or 350	16
Electives in botany numbered 300 or above	4
Life Science 341*	2
Total	38 qtr. hrs.

Note: For other minors in Biological Sciences, see Botany Minor and Zoology Minor.

* Life Science 341 may be omitted if the student has credit in Life Science 340 or Physical Science 340.

Botany**Major: (Standard High School Certificate)**

Life Science 100, 201, 340; Botany 101, 102, 229, 230, 354	32 qtr. hrs.
From Group I	8
From Group II	8
From Groups I, II, or III	4
Zoology 101, 212; 214 or 225; 343; 348 or 350	20
Electives in zoology	8
Chemistry 150, 151, 152; or 120, 121, 151, 152	12
Geography 141 or Geology 140	4

Total, including correlative courses and a minor in zoology 96 qtr. hrs.

(Major GPA based on life science and botany courses only.)

Note: The groups are listed on page 162.

Minor:

Life Science 100; Botany 101, 102	12 qtr. hrs.
Electives in botany	12
Zoology 101, 212	8
Electives in zoology	4
Life Science 341*	2
Total	38 qtr. hrs.

* Life Science 341 may be omitted if the student has credit in Life Science 340 or in Physical Science 340.

Business Education

The student may choose either a 76-quarter hour major with a minor in a second teaching field or a 92-quarter hour comprehensive major.

Major: Minor in a non-business teaching field required. (Standard High School Certificate)

The student may choose one of three options: Accounting and Secretarial; Accounting; Secretarial.

Accounting and Secretarial Option:

Management 141	4 qtr. hrs.
Two courses from Business Education 111, 112, 210, 211	8
Three courses from Business Education 123, 124, 125, 223, 224, 225	12
Accounting 230, 231, 232; Management 346, 347	20
Business Education 300, 322, 323	12
Two courses to be chosen from Business Education 340, 342 344	8
Economics 254, 255, 256	12

Total, including correlative courses 76 qtr. hrs.

Accounting Option:

Management 141	4 qtr. hrs.
Two courses from Business Education 111, 112, 210, 211	8
Accounting 230, 231, 232	12
Elective courses in accounting	12
Business Education 300, 322, 323	12
Management 346, 347	8
Business Education 340; 344	8
Economics 254, 255, 256	12
Total, including correlative courses	76 qtr. hrs.

Secretarial Option.

Management 141, 230	8 qtr. hrs.
Business Education 210, 211, 223, 224, 225	20
Business Education 300, 322, 323	12
Management 346, 347; Business Education 342, 344	16
Elective courses in business	8
Economics 254, 255, 256	12
Total, including correlative courses	76 qtr. hrs.

Comprehensive Major: No minor required. (Standard High School Certificate)

The student may choose one of three options: Comprehensive Secretarial, Comprehensive Basic Business, or Vocational Business Education. The program in Vocational Business Education leads to certification as a Reimbursable Vocational Business Teacher if student has appropriate work experience as required by the Illinois Board of Vocational Education and Rehabilitation.

Comprehensive Secretarial Option.

Two courses from Business Education 111, 112, 210, 211	8 qtr. hrs.
Three courses from Business Education 124, 125, 223, 224, 225	12
Management 141	4
Accounting 230, 231, 232	12
One course from Marketing 247, 348, 350	4
One course from Management 251, 345, Business Education 453	4
Management 230, 346, 347	12
Business Education 300, 322, 323	12
Two courses from Business Education 340, 342, 344	8
One elective course in business	4
Economics 254, 255, 256	12
Total, including correlative courses	92 qtr. hrs.

Comprehensive Basic Business Option:

Two courses from Business Education 111, 112, 210, 211	8 qtr. hrs.
Management 141	4
Accounting 230, 231, 232	12
One course from Marketing 247, 348, 350	4
One course from Management 251, 345, Business Education 453	4
Management 230, 346, 347	12
Three elective courses in Accounting; or Management 231, 331, and one of Management 332, 333, 430, or 461	12
Business Education 300, 322, 323	12
Business Education 340, 344	8
One elective course in business	4
Economics 254, 255, 256	12
Total, including correlative courses	92 qtr. hrs.

Comprehensive Vocational Business Education Option:

Two courses from Business Education 111, 112, 210, 211	8 qtr. hrs.
Management 141	4
Accounting 230, 231, 232	12
One course from Management 251, 345, Business Education 453	4
Management 230, 346, 347	12
Business Education 300	4
Three courses from Business Education 492, 493, 494, 495	12
(Three courses from Business Education 124, 125, 223, 224, 225; plus either Business Education 342 or 344; plus Business Education 322 and 323) OR (Marketing 247, 348, 349, 350; plus Business Education 344; plus one elective course in business	24
Economics 254, 255, 256	12
Total, including correlative courses	92 qtr. hrs.

(Major GPA based on all business courses taken.)

Minor: (Four options)**Accounting Option:**

Accounting 230, 231, 232, 354, 355	20 qtr. hrs.
One course from Accounting 360, 461	4
Management 251; Business Education 340	8
Total	32 qtr. hrs.

General Business Option:

Management 141; Accounting 230, 231, 232	16 qtr. hrs.
Management 346, 347	8
Business Education 340	4
Business Education 300	4
Total	32 qtr. hrs.

Secretarial Option:

Two courses from Business Education 111, 112, 210, 211	8 qtr. hrs.
Three courses from Business Education 123, 124, 125, 223, 224, 225	12
Business Education 322 or 323	4
Business Education 342 or 344	4
Elective in business	4
Total	32 qtr. hrs.

Typewriting and Bookkeeping Option:

Two courses from Business Education 111, 112, 210, 211	8 qtr. hrs.
Accounting 230, 231, 232; Business Education 322 or 323	16
Business Education 340 or 344	4
Elective in business	4
Total	32 qtr. hrs.

Chemistry**Major:** (Standard High School Certificate)

Chemistry 150 (or 120, 121), 151, 152	12 qtr. hrs.
Chemistry 283, 284, 285, 330	20
Chemistry 461, 470, 491, 492, 493	20
Physical Science 340	4
Chemistry 342	1
Mathematics 134, 135, 235, 236	16
Physics 130, 131, 132	12

Total, including correlative courses 85 qtr. hrs.

(Major GPA based on Physical Science 340 and chemistry courses only.)

Minor:

Chemistry 150 (or 120, 121), 151, 152	12 qtr. hrs.
Chemistry 234 (or 330), 243, 244 (or 283, 284)	12-15
Electives in chemistry and/or physics	12-9
Physical Science 341*	2
Total	38 qtr. hrs.

* Physical Science 341 may be omitted if the student has credit in Physical Science 340, Geography 340 or Life Science 340.

English**Major:** (Standard High School Certificate)

Courses in English (exclusive of English 120, 130, 201, 322, 340, 459) selected to represent each of twelve groups. Group I must include both English 221 and 320; Group II must include English 224 or 355 or 356	52 qtr. hrs.
English 340	4
Foreign Language (a single language)	24

Total, including correlative courses 80 qtr. hrs.

(Major GPA based on English courses only.)

Note: The groups are listed on pages 181-182 and are indicated in the course descriptions.

Minor:

English 221 or 320; 224 or 355 or 356	8 qtr. hrs.
Courses in English selected to represent each of Groups V, VII, VIII, XII 20-24	
English 340 (may be elected)	4-0
Total	32 qtr. hrs.

Foreign Language—French**Major:** (Standard High School Certificate)

French 330, 331, 332 340	16 qtr. hrs.
Courses chosen from French 230, 231, 232, 350, 351, 352, 410, 411, 412, 456, 457, 458, 510, 511, 512	36
History 233 or 235; 256 or 257	8

Total, including correlative courses 60 qtr. hrs.

(Major GPA based on French courses only.)

Note: Students with a background of high school units in French do not receive credit for beginning courses in university French. See Section X under Foreign Languages.

Foreign Language—German**Major:** (Standard High School Certificate)

German 340, 354, 361, 410	16 qtr. hrs.
Courses chosen from German 233, 234, 235, 353, 355, 362, 363, 411, 412, 453, 454, 455, 510, 511, 512	36
History 235, 257	8
Total, including correlative courses	60 qtr. hrs.

(Major GPA based on German courses only.)

Note: Students with a background of high school units in German do not receive credit for beginning courses in university German. See Section X under Foreign Languages.

Foreign Language—Latin**Major:** (Standard High School Certificate)

Latin 340	4 qtr. hrs.
Courses chosen from Latin 220, 221, 222, 320, 321, 322, 330, 331, 332, 433, 434, 435, 450, 451, 452, 510, 511, 512	48
History 233 or 234 or 235; 254	8
Total, including correlative courses	60 qtr. hrs.

(Major GPA based on Latin courses only.)

Note: Students with a background of high school units in Latin do not receive credit for beginning courses in university Latin. See Section X under Foreign Languages.

Foreign Language—Spanish**Major:** (Standard High School Certificate)

Spanish 327, 340, 410, 415	16 qtr. hrs.
Course chosen from Spanish 230, 231, 232, 321, 322, 323, 325, 326, 411, 456, 457, 458, 510, 511, 512	36
History 233, 234	8
Total, including correlative courses	60 qtr. hrs.

(Major GPA based on Spanish courses only.)

Note: Students with a background of high school units in Spanish do not receive credit for beginning courses in university Spanish. See Section X under Foreign Languages.

Foreign Language Minor:

A minor may be taken in French, German, Latin, Russian, or Spanish. Each minor consists of thirty quarter hours in a single foreign language, starting with courses numbered 200 or above, and including a methods course (340 or 341) in that language unless the student has credit in a four-quarter-hour methods course (340) in some other foreign language.

Note: Students with a background of high school units in a foreign language do not receive university credit for beginning courses in that language. See the chart at the beginning of the Foreign Language section of "Description of Courses."

Geography

Major: (Standard High School Certificate)

Geography 150; 151 or 302; 141 or 142; 340	16 qtr. hrs.
Courses in geography approved by the head of the Department of Geography	36
Economics 254, 255	8
Total	60 qtr. hrs.

(Major GPA based on geography courses only.)

Minor:

Geography 150; 141 or 301; 142 or 300; 151 or 302; 340*, and eight quarter hours approved by the department	28 qtr. hrs.
Three courses in history, economics, sociology, or political science	12
Total	40 qtr. hrs.

*Geography 340 may be omitted if the student has credit in Social Science 340.

Health Education

Minor:

Health Education 120, 227, 320	12 qtr. hrs.
Zoology 348	4
Psychology 455	4
One or two courses from Life Science 100, Zoology 101, 225; and course(s) chosen from Home Economics 319, Botany 335, Health Education 300, 330	
Total	32 qtr. hrs.

History

Major: (Standard High School Certificate. No minor required.)

History 233, 234, 235, 254, 255, 256, 257	28 qtr. hrs.
Electives in history numbered 300 or higher including at least eight quarter hours in American and eight quarter hours in non-American history courses	24
Social Science 340	4
Electives in political science	12
Electives in sociology or economics (in one field)	12
Geography 150	4

Total, including correlative courses 84 qtr. hrs.

(Major GPA based on Social Science 340 and history courses only.)

Note: The student is certified for the Standard High School Certificate with major in history and minor in social sciences.

Minor:

History 233, 234, 235	12 qtr. hrs.
Three courses from History 254, 255, 256, 257	12
Electives in history numbered 300 or higher	12
Social Science 340*	4
Total	40 qtr. hrs.

*Social Science 340 may be omitted if the student has credit in a methods course in one of the following: business education, English, foreign language, geography, life science, mathematics, physical science, or speech.

Home Economics

Major: (Standard Special Certificate. No minor required.)

Chemistry courses: OR Life Science 100, Zoology 101, Botany 234 or Zoology 348 or 336	12 qtr.hrs.
One of the following: History 233, 234, 235, Political Science 110, 111, 260	4
Sociology 271; Economics 254.	8
Home Economics 111, 112, 220, 234, 250 260, 300, 320, 340, 440, 461	40
Any two Options	32-38
Total	96-102 qtr.hrs.

Option I--Child Development

Home Economics 353, 451, 454, 459	14 qtr.hrs.
Education 426	4
Total	18 qtr.hrs.

Option II--Clothing and Textiles

Home Economics 231, 233, 236, 336, 337	20 qtr.hrs.
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Option III--Consumer Economics and Management

Home Economics 307, 370, 400	12 qtr.hrs.
Marketing 247	4
Total	16 qtr.hrs.

Option IV--Family Life Education

Home Economics 367, 369, 451, 454, 468	18 qtr.hrs.
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Option V--Foods and Nutrition

Home Economics 212, 310, 311, 312	16 qtr.hrs.
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(Major GPA based on home economics courses only.)

Note: Health Education 120 is not required for the major in home economics.

Minor:

Home Economics 111, 112, 234, 250, 260, 300, 320, 340	28 qtr.hrs.
Electives from Home Economics courses	12
Total	40 qtr.hrs.

Industrial Arts Education

Major: (Standard High School Certificate. No minor required.)

Industrial Arts 101, 141, 205, 340	16 qtr.hrs.
One course in each of four areas to be selected from electronics, graphic arts, industrial crafts, metals, and woods	16
Concentrations. The student will choose two subject areas for additional work of sixteen quarter hours each from electronics *, graphics *, graphic arts, metals *, and woods.	32
Chemistry and/or Physics	12
Mathematics	8
Total, including correlative courses	84 qtr.hrs.

(Major GPA based on industrial arts courses only.)

* Students choosing the subject areas of electronics, graphics or metals must take mathematics 125, 126; or 130, 131. Physics is strongly recommended to fulfill three of the required science courses.

Minor:

Industrial Arts 101, 141, 205, 340	16 qtr.hrs.
Basic subject area courses to be chosen from electricity, graphic arts, industrial crafts, metals and woods	12
Industrial arts and electives	8
Total	36 qtr.hrs.

Journalism**Minor:**

Journalism 210, 211, 212, 310, 311, 312	24 qtr.hrs.
English 224 or 355 or 356	4
Total	28 qtr.hrs.

Library Science**Minor:**

Library Science 320, 449, 450, 460, 470, 330, 332	28 qtr.hrs.
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Manual Arts Therapy

Major: (Standard High School Certificate. No minor required.)

Industrial Arts 101, 141, 205, 340	16 qtr.hrs.
One course in each of four areas to be selected from electronics, graphic arts, industrial crafts, metals and woods	16
Concentrations. Majors will choose two subject areas for additional work of sixteen quarter hours each from electronics, graphics, graphic arts, metals, and woods	32
Advanced courses in psychology	12
Electives in sociology	12
Total	88 qtr.hrs.

(Major GPA based on industrial arts courses only.)

Mathematics

Major: (Standard High School Certificate)

Mathematics 134, 135, 235, 236, 237, 327, 328, 340, 344, 353, 470, 471; 232 or 231	49 or 52 qtr.hrs.
One course chosen from: Mathematics 350, 354, 455, 458, 460 490, 491	4
Total	53 or 56 qtr.hrs.

Minor:

Mathematics 134, 135, 235, 236, 237, 327, 341, 353, 470	34 qtr.hrs.
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Music

Major: (Standard Special Certificate. The student chooses one of three options: Instrumental, Vocal, or General.)

Instrumental Music Option:

A. Instrumental Principal: Three courses (based on audition) from: Music 126, 127, 128, 226, 227, 228; 130, 131, 132, 136, 137, 138, 146; 151 or 152; 200, 201, 203, 204, 205, 230, 231, 232, 240, 260, 340; 347 or 455; 351, 352, 353, 360, 447	74 qtr. hrs.
Applied Instrument (Principal)	15
Instrumental Ensemble	6†
Total	95 qtr. hrs.

† Participating in an ensemble organization is encouraged during each year of residence.

B. Keyboard Principal: Music 130, 131, 132, 136, 137, 138, 146; 151 or 152; 200, 201, 203, 204, 205, 230, 231, 232, 240, 246, 247, 248, 260, 340; 347 or 455; 351, 352, 353, 360, 362, 447	78 qtr. hrs.
Applied Keyboard	15
Instrumental Ensemble	6†
Total	99 qtr. hrs.

C. Composition Principal: Music 126, 127, 128, 130, 131, 132, 136, 137, 138, 146; 151 or 152; three courses from 200, 201, 203, 204, 205; 226; 227, 228, 230, 231, 232, 240, 260, 340, 360; 347 or 455; 351, 352, 353, 447	73 qtr. hrs.
Applied Composition	15
Instrumental Ensemble	6†
Total	94 qtr. hrs.

Vocal Music Option

A. Vocal Principal: Music (126, 127, 128)*; 130, 131, 132, 146, 151 or 152, 200, 204; (226, 227, 228)*; 230, 231, 232, 240, 243, 244, 245, 255, 339; 372 (taken twice); 347 or 454 or 455; 351, 352, 353, 355, 447	75 qtr. hrs.
Applied Voice	15
Vocal Ensemble	6†
Total	96 qtr. hrs.

* When keyboard skills are advanced, singers may be assigned to private instruction—6 qtr. hrs., minimum requirement.

B. Keyboard Principal: Music 130, 131, 132, 136, 137, 138, 146; 151 or 152; 200, 204, 230, 231, 232, 236, 237, 238, 240, 246, 247, 248, 255, 339; 347 or 454 or 455; 351, 352, 353, 355, 362, 447	75 qtr. hrs.
Applied Keyboard	15
Vocal Ensemble	6†
Total	96 qtr. hrs.

C. Composition Principal: Music 126, 127, 128, 130, 131, 132, 136, 137, 138; 151 or 152; two courses from 146, 200, 204; 226, 227, 228, 230, 231, 232, 236, 237, 238, 240, 243, 344, 245, 255, 339; 347 or 454 or 455; 351, 352, 353, 355, 447	75 qtr. hrs.
Applied Composition	15
Vocal Ensemble	6†
Total	96 qtr. hrs.

General Music Option:

Music 130, 131, 132; 151 or 152; 230, 231, 232, 240, 338, 339, 351, 352, 353; (255, 355) or (260, 360); 447	56 qtr. hrs.
Applied Music (Instrumental, Vocal, Keyboard, or Composition Principal) 8	
Piano—Keyboard Principal: Music 246, 247, 248; Vocal, Instrumental, and Composition Principal: Music 226, 227, 228, or Music 246, 247, 248, depending upon student's keyboard skills	3
Ensemble	3†
Total	70 qtr. hrs.

Minor:

Vocal Option:

Music 130, 131, 132, 230, 231, 255, 339, 353, 355, four hours in applied piano over four quarters, six hours in applied voice over six quarters	42 qtr. hrs.
Participation for at least six quarters in a university choral organization is required.	

† Participating in an ensemble organization is encouraged during each year of residence.

Instrumental Option:

Music 130, 131, 132, 230, 231, 200, 201, 204, 205, 260, 340, 353, 360,
 four hours in applied instrumental music over four quarters 44 qtr. hrs.
 Participation for at least six quarters in a university instrumental
 organization is required.

Physical Education, Men**Major:** (Standard High School Certificate)

PEM 120, 121, 150, 244, 340, 431, 432, 433, PEW 450	36 qtr. hrs.
One course chosen from PEM 203, 205, 206, 207, 208	2
One course chosen from PEM 210, 211, 212, 213, 214, 215, 216, 217, 240	2
Three courses chosen from PEM 347*, 348*, 349*, 350*, 358, 360, with at least two from those marked with *	12
Life Science 100; Zoology 225, 348	12
Physical Education service courses ¹	9
Total, including correlative courses	73 qtr. hrs.

(Major GPA based on physical education courses only.)

Minor:

PEM 120, 340, 432	12 qtr. hrs.
One course chosen from PEM 203, 205, 206, 207, 208	2
One course chosen from PEM 210, 211, 212, 213, 214, 215, 216, 217, 240	2
Four courses chosen from PEM 121, 244, 347, 348, 349, 350, 360, 431, 433	16
Physical Education service course ¹	9
Total	41 qtr. hrs.

Physical Education, Women**Major:** (Standard Special Certificate)

PEW 151, 152, 241, 245, 320, 330, 410, 411, 450, 222, 223, 224, 232, 237, 238, 176, 180, 181, 183, 186, 187, 194, 392	56 qtr. hrs.
Health Education 132, 320	6
PEM 244	4
Area of Concentration	12
Total	78 qtr. hrs.

Dance Area

PEW 323, 325, 327	8 qtr. hrs.
Two courses chosen from: PEW 322, 324, 326	4

Elementary Physical Education Area

PEW 341, 342, 343	12 qtr. hrs.
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Sports Area

PEW 331, 337, 338, 339	8 qtr. hrs.
Two courses chosen from: PEW 332, 333, 334, 335	4

¹ The student must complete nine one-quarter-hour service courses; these courses to include swimming, dance, and a contact sport.

General Area

Courses to be selected from all three areas of emphasis (Dance, Elementary P.E., and Sports) in any combination in order to total 12 qtr. hrs.

(Major GPA based on physical education courses only.)

Minor:

PEW 151, 320, 330, 413, 222, 223, 232, 237, 238, 339, 180, 181, 187, 194	32 qtr. hrs.
One four-quarter-hour elective HPER course OR	
Two two-quarter-hour elective HPER courses	4
Five one-quarter-hour elective P.E. courses	5
Total	41 qtr. hrs.

Physics

Major: (Standard High School Certificate)

Physics 130, 131, 132	12 qtr. hrs.
Physics 236, 239, 240, 341, 342, 461, 466, 467	32
Electives from physics numbered 200 or above	4
Physical Science 340	4
Mathematics 134, 135, 235, 236, 237	20
Two courses from Mathematics 350, 351, 460, 461	8
Chemistry (strongly recommended)	12
Total, including correlative courses	80-92 qtr. hrs.

(Major GPA based on Physical Science 340 and physics courses only.)

Minor:

Physics 130, 131, 132, 461	16 qtr. hrs.
Electives in physics as approved by the head of the department	8
Electives in physics and/or chemistry	12
Physical Science 341*	2
Total	38 qtr. hrs.

* Physical Science 341 may be omitted if the student has credit in Geography 340, Life Science 340, or Physical Science 340.

Psychology

Major: (Standard High School Certificate)

Psychology 231, 234, 261, 340; 381 or 382	20 qtr. hrs.
Electives in psychology	32
Total	52 qtr. hrs.

Minor:

Psychology 231, 234, 352 or 457	12 qtr. hrs.
Electives in psychology	20
Total	32 qtr. hrs.

Safety and Driver Education

Minor: (May be used only as a second minor.)

Health Education 330, 331, 332	12 qtr. hrs.
Three courses from Health Education 227, 300, 320, PEM 433, Psychology 455, 457; Political Science 260, 364	12
Total	24 qtr. hrs.

Social Science

Major: (Standard High School Certificate)

The major consists of courses in economics, political science, anthropology, sociology, and geography; history courses to complete a minor are also required.

Core Courses:

Economics 254, 255, 256; Anthropology 273; Sociology 271, 272; Political Science 110, 111; one course from Political Science 100, 220, 260, 321, 322	36 qtr. hrs.
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Additional Courses:

Geography elective	4
Social Science 340	4
Upper division courses from economics, political science, sociology-anthropology; (may be in one field or distributed in three fields) ...	24
History 233, 234, 235, 256, 257; plus a third course in European history	24
Electives in history numbered above 300	8
Total	100 qtr. hrs.

(Major GPA based on social science, economics, sociology, anthropology, and political science courses only.)

Minor:

Two of the following options:

a. Economics 254, 255, 256.	
b. Political Science 110, 111; 100 or 220 or 260 or 321 or 322.	
c. Anthropology 273; Sociology 271, 272	24 qtr. hrs.
Electives from anthropology, sociology, economics, geography, history, political science	12
Social Science 340*	4
Total	40 qtr. hrs.

*Social Science 340 may be omitted if the student has credit in a methods course in one of the following: business education, English, foreign language, geography, life science, mathematics, physical science, or speech.

Speech

Major: (Standard High School Certificate)

Speech 230, 232, 234, 252, 340	20 qtr. hrs.
*Theatre Arts 132, 133, 257, 445	16
One of the following options:	
a. Three courses from Speech 320, 453, 470, 480	
b. Three courses from Speech 470; 352 or 452; 320 or 480; 490	
c. Three courses from Speech 352; 452; 453 or 470 or 490	12
Elective: Any speech course other than 131	4
Three of the following: Speech 101, 102, 103, 301, 302, 303	3
Total	55 qtr. hrs.

With the consent of the Head of the Department, Speech 400 may be substituted for any of the above requirements.

*Note: A student who majors in speech and minors in theatre arts must substitute 16 qtr. hrs. (four 4-qtr. hr. courses) in speech courses numbered above 131 for Theatre Arts 132, 133, 257, 445.

(Major GPA based on theatre arts and speech courses only.)

Minor:

Speech 230, 232, 234, 340, 490	20 qtr. hrs.
Electives: Two courses (4 qtr. hrs. each) numbered above 131 in speech ...	8
Total	28 qtr. hrs.

Speech Pathology and Audiology**Major:**

Speech Path. & Aud. 254, 255, 260, 262, 263, 362, 402, 403, 405, 408, 457	44 qtr. hrs.
Theatre Arts 132	4
Psychology 450, 451	8
Three courses from Psychology 360, 452, 455, Education 328, 444, 490, 528	12
Zoology 225	4

Total, including correlative courses 72 qtr. hrs.

(Major GPA based on Theatre Arts 132 and speech pathology and audiology courses only.)

Students in this major take Education 232 and 324 instead of Education 332 and 333 as prescribed in the Professional Education Requirements for the degree B.S. in Education.

Note: This program does not meet the requirements for the Special Certificate in Speech Correction. To prepare for that certificate, students must take this program plus the M.S. in speech pathology and audiology; see the *Graduate Bulletin*.

Theatre Arts

Major (for the student with a speech minor): (Standard High School Certificate)

Theatre Arts 101, 102, 103, 132, 133, 240, 244, 257, 333, 357, 358, 445, 460, 462, 464	51 qtr. hrs.
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Major (for the student without a speech minor): (Standard High School Certificate)

Theatre Arts 101, 102, 103, 132, 133, 240, 244, 257, 333, 357, 358, 445, two courses from: 460, 462, 464	47 qtr. hrs.
Speech 232, 234, 340*	12
Total	59 qtr. hrs.

(Major GPA based on theatre arts and speech courses only.)

Minor:

Theatre Arts 132, 133, 244, 257, 445	20 qtr. hrs.
Speech 131	4
Speech 340 or English 340	4
English 120, 130 are included for certification	8
Total	36 qtr. hrs.

**Note:* A theatre arts major with an English minor may take either Speech 340 or English 340.

Zoology

Major: (Standard High School Certificate)

Life Science 100, 201, 340	12 qtr. hrs.
Zoology 101, 212, 214, 215, 336, 343, 350, 445	32
Electives in advanced zoology courses	12

Botany 101, 102, 229, 230; 354 or 335; two courses in botany numbered 300 or above	28
Chemistry 120, 121, 122; or (150, 151, 152)	12
Geology 140	4

Total, including correlative courses and minor in botany 100 qtr. hrs.
(Major GPA based on Life Science 100, 201, 340, and zoology courses only.)

Minor:

Life Science 100, 341*	6 qtr. hrs.
Zoology 101, 212; 214 or 225; 343; 348 or 350	20
Botany 101, 102; one course numbered 229 or above	12
Total	38 qtr. hrs.

*Life Science 341 may be omitted if the student has credit in Life Science 340 or in Physical Science 340.

BACHELOR OF SCIENCE IN HOME ECONOMICS

The degree, Bachelor of Science in Home Economics, is conferred upon the successful completion of a curriculum consisting of two sets of requirements, general requirements and specialization, supplemented by elective credit to meet the minimum graduation requirement of 190 quarter hours. Courses in professional education and methods of teaching are not acceptable for elective credit.

General Education Requirements (See page 95) The general requirements are those shown for professional degrees except that Health Education 120 is not mandatory.

SPECIALIZATION

Specialization for the degree, Bachelor of Science in Home Economics, offers a choice of three basic curricula—Dietetics, Family Services, and Home Economics in Business. The curriculum, Home Economics in Business, has two options—Foods and Nutrition or Clothing and Merchandising.

DIETETICS

Botany 234	4 qtr. hrs.
Accounting 230	4
Management 251, 345	8
Marketing 247	4
Chemistry (120, 121, 122) or (150, 151, 152); 346	16
Economics 254, 255	8
Education 232	4
Home Economics 111, 112, 212, 310, 311, 312, 340, 410, 412	36
Psychology 231, 362	8
Sociology 271	4
Life Science 100; Zoology 101, 348	12
Total	108 qtr. hrs.

FAMILY SERVICES

Anthropology 273	4 qtr. hrs.
Economics 254	4
Education 490	4
Home Economics 111, 231, 236, 250, 260, 300, 307, 311, 320, 370, 425	42
Health Education 320	4
Psychology 231, 350, 451, one elective in psychology	16
Sociology 271, 272, 360, 381, 475, one elective in sociology	24
Total	98 qtr. hrs.

HOME ECONOMICS IN BUSINESS

Management 141, 381; Marketing 247, 486	16 qtr. hrs.
Chemistry electives (except Chemistry 100)	12
Economics 254, 255	8
Home Economics 111, 220, 225, 233, 300, 320, 380, 390	30
Journalism 312	4
Psychology 231; 362 or 457	8
Sociology 271	4
Option I or Option II	32-42
Total	114-124 qtr. hrs.

Option I—Foods and Nutrition

Botany 234	4 qtr. hrs.
Management 142; Marketing 350	8
Home Economics 112, 212, 220, 311	16
Home Economics 310	4
Total	32 qtr. hrs.

Option II—Clothing and Merchandising

Marketing 348, 349	8 qtr. hrs.
Home Economics 236 and/or 336	4-8
Home Economics 231, 234, 331, 337, 420, 437	26
Total	38-42 qtr. hrs.

BACHELOR OF SCIENCE IN INDUSTRIAL TECHNOLOGY

The degree, Bachelor of Science in Industrial Technology, is conferred upon the successful completion of a curriculum consisting of two sets of requirements, general requirements and specialization, supplemented if necessary by elective courses to meet the minimum graduation requirement of 190 quarter hours. Courses in professional education and methods of teaching are not acceptable for elective credit.

General Education Requirements (see page 95)

SPECIALIZATION

Specialization for the degree, Bachelor of Science in Industrial Technology provides for three options: Electronics, Construction, and Metal Work.

Chemistry 120, 121, 122; or 150, 151, 152	12 qtr. hrs.
Economics 254, 255, 357	12
Health Education 335	4
Industrial Arts 101, 106, 116, 121; 202 or 303; 306	24
Industrial Technology 304, 370, 400, 404	16
Management 383, 434; 251 or 345	12
Mathematics 130, 131, 134, 234	16
Physics 130, 131, 132	12
Psychology 353	4
Option and electives	32
Total	144 qtr. hrs.

Option I—Electronics

Physics 315	4 qtr. hrs.
Industrial Technology 416, 417	8
Industrial Arts 216, 217, Ind. Tech. 316 recommended	12

Option II—Construction

Industrial Arts 301, 302	8	qtr. hrs.
Industrial Technology 305, 401, 402, 424	8	

Option III—Metal Work

Industrial Arts 307, 310, 409	12	qtr. hrs.
Industrial Technology 460, 464	8	

Note: Recommended electives outside the School of Industrial Arts and Technology:

Management 230, 346, 435; Geography 360; Sociology 381.

BACHELOR OF SCIENCE IN RECREATION

The degree, Bachelor of Science in Recreation, is conferred upon successful completion of a minimum of 190 quarter hours in courses which satisfy two sets of requirements: general and specialization.

General Education Requirements (in addition to all-University requirements, page 95)

Life Science 100; Zoology 225, 348	12	qtr. hrs.
Elective in mathematics	4	
One course in U.S. history	4	
Political Science 260	4	
Sociology 271, 365, 381	12	
One course in English literature	4	
One course in philosophy	4	
Music 229	4	
Art 360	4	

SPECIALIZATION

Art 334	4	qtr. hrs.
Economics 385	4	
Geography 387	4	
Geology 140	4	
Industrial Arts 129	4	
Education 232	4	
Psychology 231, 457	8	
Theatre Arts 431	4	
Health Education 330	4	
PEM 228, 351, 378, 470, 471, 474, 476, 479	32	
PEW 132, 355, 356, 473	16	
Electives	24	
Total	164	qtr. hrs.

COOPERATIVE DEGREE PROGRAMS**MEDICAL TECHNOLOGY**

This program is administered by the Division of Pre-Medical Studies.

The curriculum in medical technology requires three years of study at Eastern Illinois University, followed by successful completion of a one-year program in medical technology in an affiliated hospital.

Course Requirements:

Botany 325	4	qtr. hrs.
Chemistry 120, 121, 122; or 150, 151, 152	12	
Chemistry 234, 243, 244	12	

Mathematics: Four quarter hours of mathematics required regardless of exemptions.

Eight hours are required if student has no exemptions4 or 8

Psychology 231 4

Life Science 100; Zoology 101, 225 12

Zoology 327 and one elective course in zoology 8

Physical Education service courses 6

Courses to complete the general requirements for a professional degree and
elective courses 80-76

Total 142 qtr. hrs.

The hospital program in medical technology is accepted in lieu of the remaining forty-eight quarter hours to complete the normal graduation requirement.

ENGINEERING

This program is administered by the Division of Pre-Engineering Studies.

The curriculum has been planned to comprise three years of work at Eastern Illinois University and approximately two years of subsequent work in the College of Engineering at the University of Illinois. The degree, Bachelor of Science, is conferred by Eastern Illinois University upon the granting of an engineering degree at the University of Illinois after completion of the prescribed program. The purpose of this program is to provide engineering students with a broader base of liberal arts than is usually given in a four-year engineering curriculum.

Students who plan to enroll in this curriculum should have included in high school the courses recommended as preparation for the two-year pre-engineering curriculum described in Section IX.

The three years of work to be taken at Eastern Illinois University prior to transferring to the University of Illinois comprise:

General Requirements: The general requirements are those shown for professional degrees.

Specific Courses:

Chemistry 150 (or 120 and 121), 151, 152

Physics 130, 131, 132, 236, 239, 240

Mathematics 134, 135, 235, 236, 237, 350

Industrial Arts 104

Six physical education service courses

Electives:

Elective credit to bring the total to 142 quarter hours.

After completing 102 quarter hours in this curriculum a student may apply to the pre-engineering committee for admission as an engineering candidate. The requirements for admission as an engineering candidate are minimum grade-point average of 2.50 and approval by the committee. Continuation as an engineering candidate requires maintaining a minimum grade-point average of 2.50.

A student who transfers into this curriculum from another college or university must be in residence at Eastern Illinois University for at least one quarter before he becomes eligible for admission as an engineering candidate.

PRE-MEDICINE

This program is administered by the Division of Pre-Medical Studies.

There are two pre-medical curriculum plans which may lead to the degree, Bachelor of Science.

Plan I:

This plan provides for the conferring of the baccalaureate degree with a major in zoology upon completion of three years of stated requirements at Eastern Illinois University and forty-eight quarter hours of specified courses at the College of Medicine at the University of Illinois. Students who enter other medical schools will be considered on an individual basis.

The requirements for graduation are as follows:

General Requirements: The general requirements are those shown for professional degrees except Health Education 120.

Specific Courses:

Chemistry 150, 151, 152; or 120, 121, 122
 Chemistry 234, 243, 244
 Life Science 100; Zoology 101, 212, 214, 215
 Physics 130, 131, 132
 Six physical education service courses

Electives:

Elective credit to bring the total course work at Eastern Illinois University to 142 quarter hours.

Transfer Credit:

The transfer of forty-eight quarter hours of approved credit from the University of Illinois College of Medicine. The transfer of this credit is contingent upon the following:

1. The student must be in good standing in the College of Medicine.
2. Residence requirements for a baccalaureate degree at Eastern Illinois University must have been met.

The following courses at the College of Medicine are acceptable to complete the major and minor at Eastern Illinois University:

1. Biochemistry 301, 302, 303 (66 hours in lecture and 88 hours in laboratory—9 quarter hours)
2. Physiology 301, 302, 303 (90 hours in lecture and 49 hours in laboratory—15 quarter hours)
3. Histology (64 hours in lecture and 160 hours in laboratory—12 quarter hours)
4. Gross Anatomy (64 quarter hours in lecture and 160 hours in laboratory—12 quarter hours)

Plan II:

Since most medical schools require a baccalaureate degree as a requirement for admission, this plan is the one used most often. The student completes a departmental major and the regular requirements for an undergraduate degree.

Regardless of the major, the following minimum program in science must be completed:

Life Science 100, Zoology 101, and at least one elective from Zoo 212, 214,
 215 12 qtr. hrs.

Chemistry, including 12 q. hrs. in organic chemistry. Quantitative analysis is
 strongly recommended as an elective 24 qtr. hrs.

Physics 130, 131, 132 12 qtr. hrs.

VIII. GRADUATE DEGREE PROGRAMS

Graduate Study

ADMISSION AND READMISSION

Admission to take graduate courses is granted upon evidence of a standard baccalaureate degree from an accredited college or university; and the student must:

1. Take either the Graduate Record Examination (GRE) or the Admission Test, Graduate Study in Business (ATGSB). Either examination may be scheduled through the University Testing Service or the Graduate School;
2. have an undergraduate cumulative GPA of 2.25;
3. *or* lacking 2.25, a minimum of 2.50 in the major for the bachelor's degree;
4. *or* demonstrated ability as evidenced by earning a minimum score on the GRE or the ATGSB.
5. An unclassified or "non-degree" graduate student continues to be admitted to take graduate courses under the present regulations and should such student apply for degree status, admission to candidacy shall be determined by his scholastic record to date, scores on the GRE or ATGSB or on both the record and the GRE or ATGSB scores. The latter to be determined by the department admitting the student to candidacy.

Admission to courses is not to be interpreted as admission to candidacy for a degree.

An application, together with transcripts certifying the bachelor's degree and any subsequent work in other institutions, must be filed at least thirty calendar days before the first registration for graduate courses. Students who have attended Eastern Illinois University previously must file an application for readmission at least ten calendar days prior to the official registration date for the quarter in which they wish to enroll. Application blanks may be secured from the office of the Assistant Dean, Records.

A student who holds a baccalaureate degree is known as a graduate student only if he has applied for and has been accepted to take graduate courses.

Admission of Foreign Students. In addition to the regular application materials, overseas students are required to take the Test of English as a Foreign Language (TOEFL) Examination; the results of the examination must accompany the application blank.

GRADUATE STUDY IN THE SENIOR YEAR

During the final quarter of residence in undergraduate work, or the penultimate quarter of residence (if the final quarter is to be spent in student teaching or internship), a senior may take graduate courses with credit which represents the difference between that required to complete the undergraduate degree and the maximum allowed a graduate student in that term.

The proper application forms must be completed prior to enrolling in the graduate courses.

Military scholarships are valid for graduate study, and any unused portion of a Teacher Education Scholarship may be applied to graduate study.

GRADUATE ASSISTANTSHIPS

Graduate assistantships are available in departments and certain administrative offices. Appointments are for the academic year or summer sessions. To be eligible the applicant must have earned an overall 2.50 undergraduate grade point average and been admitted to take graduate courses.

The registration fee and out-of-state fees, if applicable, are waived for holders of assistantships.

Applications for the assistantships should be submitted by March 1 of the year of appointment. Further information may be obtained by writing to the Dean of the Graduate School or the major department.

GRADUATE DEGREES OFFERED

Master's Degrees

MASTER OF SCIENCE IN EDUCATION DEGREE

Aim. It is the purpose of this program to offer experiences designed to advance the professional and personal competence and scholarship of teachers and other educational workers in the public schools.

Fields

Art	Home Economics
Audio-Visual Education	Industrial Arts
Biological Sciences	Mathematics
Business Education	Music
Educational Administration	Physical Education-Men
Elementary Education	Physical Education-Women
English	Physical Sciences
Foreign Languages	Social Sciences
Geography	Speech
Guidance and Counseling	Theatre Arts
History	

MASTER OF ARTS AND MASTER OF SCIENCE DEGREES

Aim. It is the purpose of these programs to provide intensive study designed to develop advanced scholarship in a particular discipline.

Fields. The following majors have been authorized for the Master of Arts and Master of Science Degrees:

Master of Arts

Art
Economics
English
French
Geography
History
Mathematics
Music
Political Science
Psychology
Sociology
Spanish
Speech

Master of Science

Botany
Chemistry
Physical Education
Physics
Speech Pathology and Audiology
Zoology

MASTER OF SCIENCE IN LIBRARY SCIENCE**MASTER OF BUSINESS ADMINISTRATION**

Aim. The purpose of this program is to develop professional managers and executives to serve the needs of business and government, to prepare graduates for teaching in junior colleges, and to furnish basic graduate training for those desirous of continuing their graduate work.

Specialist Degrees ***SPECIALIST IN EDUCATION DEGREE**

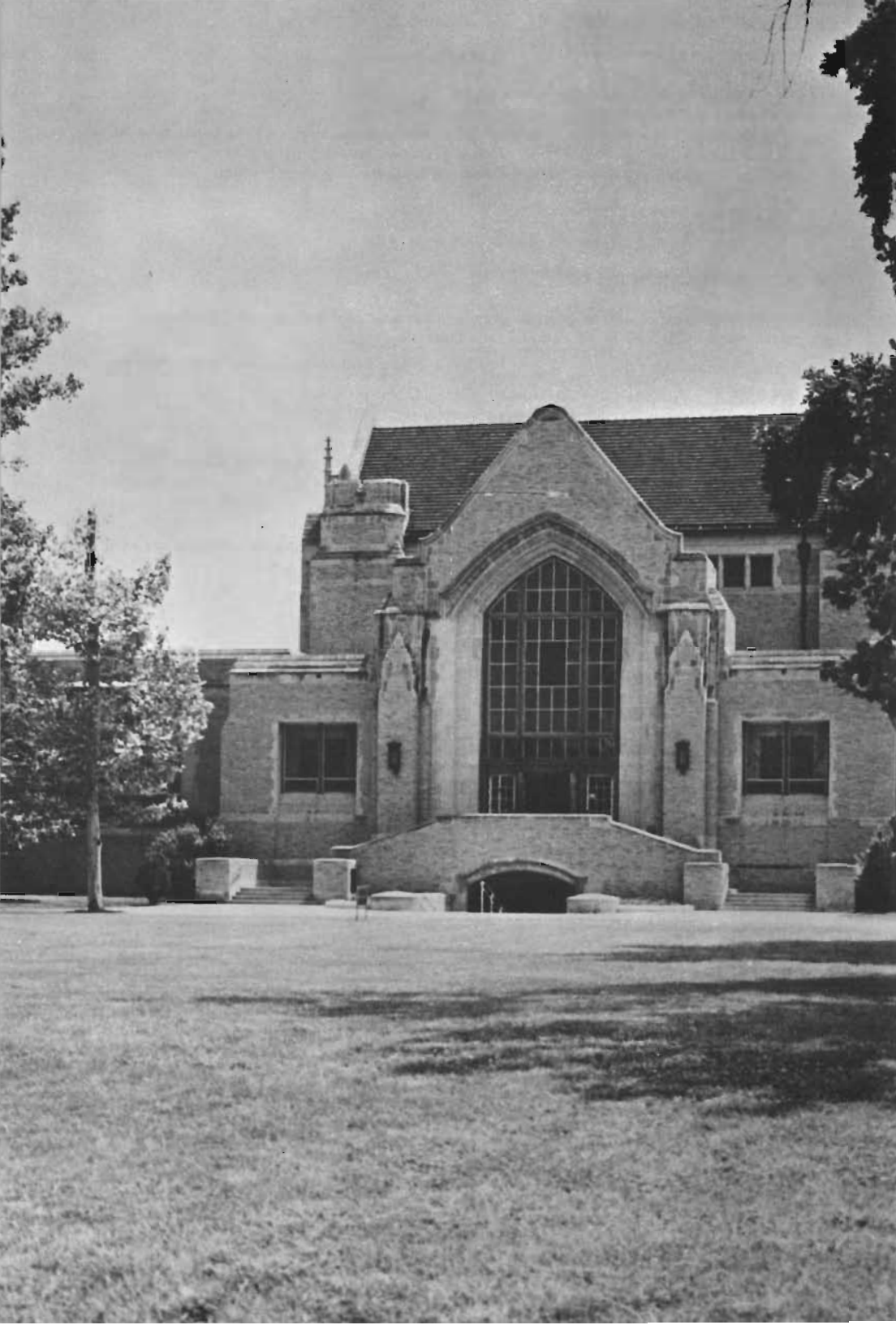
Aim. It is the purpose of this program to provide more advanced and intensive graduate study for public school personnel in educational administration.

Field. The Specialist in Education degree is offered in the field of educational administration.

Graduate Degree Program Requirements

For detailed descriptions of the various graduate programs offered at Eastern Illinois University, see the *Graduate Bulletin*. Catalogs, application blanks and other materials may be obtained by writing to the Dean of the Graduate School.

- * Specialist degrees are often called "Sixth Year" degrees for they normally require a year's graduate work beyond the master's level.



IX. NON-DEGREE PROGRAMS

The curricula outlined in this section have been formulated as suggested programs which do not lead to graduation. Changes may be made by the student and his advisor without the formality of application for a waiver, except that English 120, 130, Speech 131, and service courses in physical education must be taken as indicated.

Pre-Engineering

These programs are administered by the Division of Pre-Engineering Studies.

GENERAL

Students planning to enroll in pre-engineering are advised to include the following subjects in their high school programs.

Mathematics—4 or more units, including trigonometry

Science—3 or more units, including chemistry and physics

Foreign Language—2 or more units, including two units in the same language

Students deficient in any of these courses should expect their graduation from a College of Engineering to be delayed.

First Year

English 120, 130	8 qtr. hrs.
Mathematics 134, 135, 235	12
Physics 130, 131, 132	12
Chemistry 150 (or 120 and 121), 151, 152	12
Humanities or social studies as outlined by advisor	4
Physical Education service courses	3

Note: Students who do not have prerequisites for Mathematics 134 must start with either 130 and 131, or 132; see course descriptions in Section X for prerequisites.

Second Year

English 201	4 qtr. hrs.
Mathematics 236, 237, 350	12
Physics 236, 239, 240	12
Industrial Arts 104	4
Humanities and social science as outlined by advisor	16
Physical Education service courses	3

Note: Students who do not have two years in the same foreign language in high school should add twelve quarter hours in a foreign language.

CHEMICAL**First Year**

Chemistry 150 (or 120 and 121), 151, 152	12 qtr. hrs.
English 120, 130	8
Industrial Arts 104	4
Mathematics 134, 135, 235	12

Note: Students who do not have prerequisites for Mathematics 134 must start with either 130 and 131, or 132; see course descriptions in Section X for prerequisites.

Physics 130, 131, 132	12
Students lacking two units in high school German, French, or Russian should enroll in one of these languages and postpone Physics 130, 131, 132 to the second year.	
Physical Education service courses	3

Second Year

Chemistry 283, 284, 285	12 qtr. hrs.
Mathematics 236, 237, 350	12
Physics 236, 239	8
English 201	4
Foreign Language (one year French, German, or Russian)	12
Physical Education service courses	3

Note: Physics 130, 131, 132 should be substituted here if language was taken in first year.

Two years of French, German, or Russian are required in the chemical engineering curriculum at most universities.

Pre-Medical and Related Studies

These programs are administered by the Division of Pre-Medical Studies.

PRE-DENTISTRY

The courses in this curriculum will enable the student to become a candidate for admission to most schools of dentistry. It is strongly urged, however, that students complete three years of pre-dental work. All applicants will be required to take a dental aptitude test given by the American Dental Association.

First Year

Chemistry 120, 121, 122; or 150, 151, 152	12 qtr. hrs.
English 120, 130	8
Speech 131	4
Mathematics 130	4
Life Science 100, Zoology 101, 214	12
Electives	8
Physical Education service courses	3

Second Year

Chemistry 234, 243, 244	12 qtr. hrs.
English 201	4
Physics 130, 131, 132	12
Electives	20
Physical Education service courses	3

Note: It is recommended that the electives include history, economics, philosophy, sociology, and a modern language.

PRE-NURSING

Eastern Illinois University does not have a baccalaureate program in nursing. It is possible for students to complete one year at this institution and then transfer to the University of Illinois College of Nursing for the remaining three years. The first year program includes basic courses in chemistry, zoology, English, social studies and humanities.

PRE-OPTOMETRY

Schools of optometry usually require two years of pre-professional work.

First Year

English 120, 130	8 qtr. hrs.
Speech 131	4
Chemistry 120, 121, 122; or 150, 151, 152	12
Life Science 100; Zoology 101, 225	12
Mathematics 130, 131, 134	12
Physical Education service courses	3

Second Year

English 201	4 qtr. hrs.
Physics 130, 131, 132	12
Psychology 231	4
Electives (social studies, humanities, history)	28
Physical Education service courses	3

PRE-PHARMACY**One Year**

Chemistry 120, 121, 122; or 150, 151, 152	12 qtr. hrs.
English 120, 130	8
Mathematics 130, 131, 134	12
Electives to be selected in terms of the requirements of the College of Pharmacy selected by student	16

PRE-VETERINARY MEDICINE

This two-year program is designed to prepare students for admission to schools of veterinary medicine. Four years of professional study, preceded by two years of college study, are required in typical schools.

First Year

Chemistry 120, 121, 122; or 150, 151, 152	12 qtr. hrs.
English 120, 130	8
Speech 131	4
Mathematics 130	4
Life Science 100	4
Botany 101	4
Zoology 101	4
Electives	8
Physical Education service courses	3

Second Year

Chemistry 234, 243, 244	12 qtr. hrs.
English 201	4
Physics 130, 131, 132	12
Foreign Language	12
Electives	8
Physical Education service courses	3

Note: The recommended electives should include no fewer than two of the following fields: history, anthropology, economics, geography, political science, psychology, or sociology.

Pre-Agriculture, Horticulture, Floriculture, and Forestry**First Year**

English 120, 130, Speech 131	12 qtr. hrs.
Life Science 100; Botany 101, 102	12
Chemistry 120, 121; or 150, 151	8
Health Education 120	4
Electives	12
Physical Education service courses	3

Second Year

Botany 229, 332, 335 or 354	12 qtr. hrs.
English 201	4
Geology 140 or elective	4
Zoology 101, 212	8
Electives	20
Physical Education service courses	3

Students who plan to study vocational agriculture should take Psychology 231 and Education 232.

Students who plan to study forestry should take Chemistry 122 or 152 and Mathematics 130, 131, 134 in the first year. The second year's program should be planned after consultation with the College of Forestry the student plans to enter.

Recommended electives: Botany 230, Zoology 214, 338, Geography 141, 142, 151, Geology 140, 243, History 233, 234, 235, Economics 254, 255, 256.

Pre-Conservation

A sub-professional curriculum which has been developed with the advice of administrators and technicians of the Soil Conservation Service is offered.

First Year

English 120, 130, Speech 131	12 qtr. hrs.
Mathematics 130	4
Life Science 100	4
Botany 101, 102	8
Chemistry 120, 121, 122; or 150, 151, 152	12
Geography 141	4
Geology 140	4
Physical Education service courses	3

Second Year

Zoology 101, 212	8 qtr. hrs.
English 201	4
Geography 142, 360, 380, 387	16
Industrial Arts 104	4
History 234, 235	8
Electives	8
Physical Education service courses	3

Pre-Journalism

The program suggested below is designed to provide a general background for prospective journalism majors. Students should modify the following two-year program to meet the requirements of the journalism school they plan to attend.

First Year

English 120, 130, Speech 131	12 qtr. hrs.
Laboratory Science	12
Journalism 210, 211, 212	12
Foreign Language	12
Physical Education service courses	3

Second Year

English 201; 224 or 355 or 356; any American literature	12 qtr. hrs.
History 233, 234, 235	12
Electives	24
Physical Education service courses	3

Note: Recommended electives: Industrial Arts 315; Economics 254; Political Science 100, 260; Sociology 271, 368; Philosophy 270, 330.

Pre-Law

There is no formal curriculum for pre-legal studies. Ordinarily, students interested in attending law school will, as undergraduates, take a bachelor's degree with a major in a standard academic discipline. For further information, see the Political Science Department where advice is available concerning the requirements for admission to law schools.



X. ACADEMIC ORGANIZATION & COURSE DESCRIPTIONS

Instruction at Eastern Illinois University is administered by the following organizations:

College of Letters and Science

L. A. Ringenberg, Dean

Department of Art	Walter Sorge
Department of Botany	W. W. Scott
Department of Chemistry	S. R. Steele
Department of Economics	E. M. Corley
Department of English	R. F. White
Department of Foreign Languages	M. M. Miess
Department of Geography and Geology	D. A. Price
Department of History	W. Schlauch
Department of Library Science	Frances Pollard
Department of Mathematics	A. J. DiPietro
Department of Philosophy	S. L. Penn
Department of Physics	W. A. Butler
Department of Political Science	J. T. Connelly
Department of Psychology	H. G. Coe
Department of Sociology and Anthropology	B. E. Munson
Department of Speech	D. P. Garner
Department of Speech Pathology and Audiology	W. L. Thurman
Department of Theatre Arts	E. G. Gabbard
Department of Zoology	G. T. Riegel
Division of Life Sciences	L. Durham, Director
Division of Social Sciences	R. A. Plath, Director

Faculty of Education

H. J. Merigis, Dean

Department of Administration and Supervision	R. V. Shuff
Department of Educational Psychology and Guidance	D. L. Moler
Department of Elementary and Junior High School Education	L. M. Grado
Department of Instructional Materials	V. Stockman, Director

School of Business

J. F. Giffin, Dean

Department of Accounting	W. E. Ballsrud
Department of Business Education	G. K. Cooper
Department of Management	W. E. Green
Department of Marketing	C. L. Fagan

School of Health, Physical Education and Recreation W. S. Lowell, Dean

Department of Health Education
 Department of Physical Education for Men
 Department of Physical Education for Women

J. J. Richardson
 W. F. Buckellew
 H. E. Yingling

School of Home Economics

M. R. Swope, Dean

Department of Home Economics Education

J. S. Crouse

School of Industrial Arts and Technology

W. D. Coleman, Dean

Industrial Arts Education
 Industrial Technology

R. B. Sonderman
 W. D. Coleman

School of Music

R. Y. Hare, Dean

Department of Instrumental Music
 Department of Keyboard
 Department of Music Education
 Department of Music Theory, History, and
 Literature
 Department of Vocal Music

E. W. Boyd
 G. L. Zwicky
 J. R. Pence
 A. R. Aulabaugh
 J. N. Maharg

In the course description section which follows, courses are shown under the departments which teach them, with the departments listed in alphabetical order.

Course Descriptions

Generally, courses numbered 100-199 are freshman courses; 200-299, sophomore courses; 300-399, junior courses; 400-499, senior courses; and 500-699, graduate courses. However, if prerequisites are met students may enroll according to the following schedule.

CLASS**COURSES NUMBERED**

Freshman	100	200	a	a	
Sophomore	100	200	300	a	
Junior	100	200	300	400	
Senior	100	200	300	400	500-549b
Graduate				450-499c	500-690

- Courses numbered 300-499 in foreign languages, mathematics, and chemistry may be taken by underclassmen who have prerequisites and permission of the department head.
- With 3.0 GPA and permission of instructor and Dean of Graduate School.
- Certain courses only.

Numbers in parentheses following the course title indicate the number of class hours per week — laboratory or studio hours per week — credit hours. For example (4-0-4) indicates four hours of classroom work each week, no laboratory hours, and four quarter hours credit.

Prerequisites for courses are printed in italics immediately following the course description. A student may not enroll in a course which is prerequisite for a course for which he has credit nor may he enroll in a course which substantially duplicates, at a lower level, a course or courses which he has already successfully completed. Should a student violate this prescription, he may not receive credit for the course toward graduation.

Unless indicated as below, courses are offered every quarter. Offering times indicated are:

F — Fall Quarter

W — Winter Quarter

S — Spring Quarter

Su — Summer Quarter or Term

ACCOUNTING

220. **Individual Income Tax. (2-0-2)** Su, W. An introduction to the basic concepts and procedures of Federal and State Income Tax as they pertain to the individual taxpayer and the small business enterprise.
230. **Principles of Accounting I. (4-0-4).** An introduction to the basic concepts of financial accounting. Not open to freshmen.
231. **Principles of Accounting II. (4-0-4).** A Continuation of Accounting 230. Prerequisite: Accounting 230.
232. **Principles of Accounting III. (4-0-4)** Uses of accounting data for managerial planning and control. Prerequisite: Accounting 231.
354. **Intermediate Accounting I. (4-0-4)** In depth study of accounting for current assets, current liabilities, investments, plant and equipment. Prerequisite: Accounting 232.
355. **Intermediate Accounting II. (4-0-4)** In depth study of accounting for long-term debt, stockholders' equity, and intangible assets. Analysis of financial statements, price-level changes, and funds-flow. Prerequisite: Accounting 232.
356. **Advanced Accounting Problems. (4-0-4)** Su, S. Special accounting problems related to partnerships, corporate business combinations, and governmental units. Prerequisites: Accounting 354, 355.
360. **Cost Accounting. (4-0-4)** Su, F, W. An introduction to the usefulness and limitations of cost accounting with emphasis upon cost control and cost analysis. Prerequisite: Accounting 232.
370. **Governmental and Social Accounting. (3-0-3)** W. Special nature of accounting for governmental and private institutions, and social systems. Budgets, fund accounting characteristics, cost accounting, and the structure of national income accounts. Prerequisites: Accounting 232, Economics 256.
380. **Introduction to Operations Research. (4-0-4)** F. An introduction and survey of the quantitative approaches to managerial decision making under conditions of certainty, risk, uncertainty, and competition. Prerequisite: Mathematics 129 or 130.
400. **Development of Accounting Thought. (4-0-4)** S. An analysis of the techniques, origin, development, and adequacy of basic theoretical concepts underlying the practice of accounting. Prerequisites: Accounting 354, 355, or permission of the instructor.
401. **Undergraduate Seminar in Accounting. (1-0-1)** S. Individual research into a specific contemporary accounting issue. Prerequisites: Accounting 360, 461, and 464.
490. **Internship in Accounting. (Arr-Arr-4)** Employment experience in public, industrial or governmental accounting, for one quarter, in an approved firm. Prerequisite: Permission of Head of Department of Accounting and acceptance of the student by a business firm.

COURSES OPEN TO JUNIORS, SENIORS, AND GRADUATE STUDENTS

453. **Accounting Systems. (4-0-4)** Su, W. An introduction to basic concepts and standards of accounting system design. Prerequisite: Accounting 360.
454. **Budget Planning and Control. (4-0-4)** W, S. Fundamental concepts underlying a profit planning and control program and their relationship to the primary functions of management. Prerequisite: Accounting 232.
461. **Federal Income Tax Accounting. (4-0-4)** Su, F, W. Tax Accounting under the latest amendments to the Internal Revenue Code. Basic discussion of theory and concepts. Prerequisite: Accounting 232.
462. **Advanced Cost Accounting. (4-0-4)** F. Special topics will be covered in order to aid managers to select and reach their objectives. Prerequisite: Accounting 360.

464. **Auditing Theory and Practice. (4-0-4)** Su, F, W. The examination and verification of financial statements for the purpose of establishing their reliability. Prerequisites: Accounting 354, 355, 360, and permission of Head of Department of Accounting.
466. **Advanced Federal Income Tax Problems and Research. (4-0-4)** S. Emphasis on partnership, corporation, fiduciary tax problems. Gift, estate, inheritance taxes. Corporate tax case research. Prerequisite: Accounting 461.
467. **C.P.A. Problems. (4-0-4)** F, S. Accounting theory and practice on a professional level. Analysis and study of selected questions from C.P.A. examinations. Prerequisites: Accounting 356, 461, 464.
469. **Advanced Auditing Theory and Practice. (4-0-4)** S. Theory and application of advanced techniques, special reports, ethics, legal responsibility, and their relation to the auditing standards. Prerequisite: Accounting 464.
498. **Independent Study. (Arr.-Arr.-4)** Individual study programs. The student will be assigned material from literature in accounting in cooperation with the department head. A written formal report based upon these readings must be submitted. Prerequisite: Senior standing with strong scholarship as evidenced by cumulative grade point average and permission of Head of Department of Accounting.

ANTHROPOLOGY (Taught in the Department of Sociology and Anthropology)

UNDERGRADUATE COURSES

273. **Introduction to Anthropology. (4-0-4)** A study of the races of the world, preliterate culture, kinship systems, major institutions and social structure.
325. **Social Structure. (4-0-4)** W. A review of descriptive techniques and the methods of structural and functional analysis used by the social anthropologist. Prerequisite: Anthropology 273.
360. **Peoples and Cultures of South America. (4-0-4)** F. The pre-Columbian background; contemporary races, culture and social organization of selected Latin American societies. Prerequisite: Anthropology 273.
363. **Peoples and Cultures of Africa. (4-0-4)** F. A study of the peoples and cultures in Africa, particularly West Africa, during colonization, and of their progress as emerging nations. Prerequisite: Anthropology 273.
365. **Introduction to Physical Anthropology. (4-0-4)** W. Investigation of man's place in nature; emphasis on principles of biological evolution as reflected by fossil evidence. Prerequisite: Anthropology 273.
367. **Introduction to Prehistoric Archaeology. (4-0-4)** F. Study of the history, method, theory and goals of archaeology; interpretation and analysis of prehistoric cultures. Prerequisite: Anthropology 273.
368. **Midwest Prehistory. (4-0-4)** S. A study of midwestern archaeology including both major cultures and regional variations. Their chronology and interrelationships will be stressed. Prerequisite: Anthropology 273.
369. **North American Indians. (4-0-4)** W. A survey of the native population of North America emphasizing the importance of cultural adaptation to environment. Prerequisite: Anthropology 273.
372. **Archaeology of the Middle East. (4-0-4)** S. Study of the origins and prehistory of man in the Tigris-Euphrates Valley, the Anatolian Peninsula, and the eastern Mediterranean region. Prerequisite: Anthropology 273.

COURSES OPEN TO JUNIORS, SENIORS, AND GRADUATE STUDENTS

454. **Theories of Culture and Social Change. (4-0-4) S.** An investigation of anthropological theories and models which have contributed to an understanding of culture and social change. Prerequisite: Anthropology 273.
470. **Field Techniques in Archaeology. (2-8-6) Su.** The techniques, methods, and procedures of archaeology will be discussed and practiced in actual working conditions on an archaeological excavation. Prerequisite: Anthropology 273. To be taken concurrently with Anthropology 471.
471. **Laboratory Techniques and Problems in Archaeology. (2-8-6) Su.** Laboratory work in the field; studying, evaluating, and writing final reports on the associated fieldwork. Prerequisite: Anthropology 273. To be taken concurrently with Anthropology 470.

GRADUATE COURSES

(Courses numbered 500-549 inclusive may be taken by a senior whose grade point average is 3.0 or higher, with permission of the instructor and the Dean of the Graduate School. Courses numbered 550 and above are open only to graduate students.)

552. **Cultural Anthropology. (4-0-4) Su.** An introduction to the scientific study of man and his culture. Cross cultural comparison of the major social institutions. Credit applicable only to the Group III requirement for the degree M.S. in Ed.

ART

Note: Studio courses meet for three double periods and one single period which is used for planning, discussions, and reports. Additional discussions may be incorporated into the studio hours.

Certain courses require the purchase of materials by the student. In such cases, completed projects become the property of the student. The Department of Art reserves the right to retain for exhibition purposes any student work produced in art classes for a period of one academic year after the year in which the work was produced.

UNDERGRADUATE COURSES

100. **Drawing I. (0-8-4)** Freehand drawing in various media; studies from nature designed to develop an interpretative approach.
101. **Drawing II. (0-8-4)** Drawing from life; a development of individual expression and a continuing study of drawing technique. Prerequisite: Art 100. For art majors and minors only.
110. **Design I. (0-8-4)** Introduction to basic aspects of design problems dealing with color, texture, line, form, and organization. Credit is not granted to students who have received credit in Art 140.
111. **Design II. (0-8-4)** Development of three-dimensional organization of forms using various media. Credit is not granted to students who have received credit in Art 319. For majors and minors only in art, industrial arts, and industrial technology.
140. **Introduction to Art. (0-8-4)** Study of the functions of art in our environment with studio problems provide creative experiences in designing. Prerequisite: Enrollment in a curriculum for elementary or junior high school teachers. Credit is not granted to students who have received credit in Art 110.
160. **Introduction to Visual Arts. (4-0-4) Su, F. W.** Nature of art as revealed in works of painting, sculpture, architecture, and minor forms of arts. For art majors and minors only.

165. **Theory and Fundamentals of Art. (2-4-4)** Consideration of the basic aspects of the creation of form in the two-dimensional and three-dimensional visual arts. Studio experiences included. May be used as partial fulfillment of humanities requirement. Not open to students whose major or minor is in art (except art history majors for B.A.) or to students whose major is in elementary education. Not open to students who have credit for Art 360.
205. **Painting I (0-8-4)** Introduction to painting as a medium of expression; variety of approaches and media explored. Prerequisites: Art 100 and 110.
225. **Ceramics I. (0-8-4)** Introduction to various hand-building techniques; decorative methods; firing process; use of potter's wheel. Prerequisite: Art 110 or 111. For art majors and minors only.
244. **Art for Teachers in the Elementary Grades. (2-4-4)** Development stages of children's artistic activity; motivation, classroom management, and appropriate use of art media for each stage stressed. Studio. Prerequisite: Art 140.
260. **History of Art I. (4-0-4) F.** Development of visual arts from pre-historic time to the medieval period. For art majors and minors only.
261. **History of Art II. (4-0-4) W.** Art of the medieval period; the Renaissance; includes brief survey of art of the Far East. Prerequisite: Art 260. For art majors and minors only.
262. **History of Art III. (4-0-4) S.** General survey concerning the artistic achievements of man from the beginning of Mannerism to the present. Prerequisite: Art 261. For art majors and minors only.
265. **Fundamental Concepts of Two-Dimensional Form. (2-4-4)** An investigation through discussion and studio experimentation of some of the major concepts of two-dimensional form. Prerequisite: Art 165 or 360. May be used as partial fulfillment of humanities requirement. Not open to students whose major or minor is art or to students whose major is elementary or junior high school teaching.
266. **Fundamental Concepts of Three-Dimensional Form. (2-4-4)** Characteristics of three-dimensional form considered through discussion and studio. Prerequisite: Art 165 or 360. May be used as partial fulfillment of the humanities requirement. Not open to students whose major or minor is in art or to students whose major is elementary or junior high school teaching.
270. **Introduction to Jewelry I. (0-8-4)** Decorative and constructive processes in the use of silver or other metals. Prerequisite: Art 110 or 111 or 140.
280. **Introduction to Weaving. (0-8-4) F, W, S.** Procedures involved in dressing the loom. Production of various weaves on the loom and experimentation with color, textures, and materials. Prerequisite: Art 110 or 140.
290. **Lettering. (0-8-4) F.** Design and formation of basic styles of letters—Roman, Modern, and Text; development of skills of lettering with pen and brush. Prerequisite: Art 110 or 140 or permission of the instructor.
- 300, 301, 302. **Drawing III, IV, V. (0-8-4 each course) F, W, S.** Advanced drawing designed to develop individual sensitivity to form in two dimensions; development of an expressive and personal interpretation. Prerequisites: Art 100 and 101.
- 305, 306, 307. **Painting II, III, IV. (0-8-4 each course)** Study of types of painting; craftsmanship and expression in several media stressed through progressive stages of the three courses. Prerequisite: Art 205.
308. **Watercolor I. (0-8-4) F,S** A painting course in transparent media. Prerequisite: Art 205.
309. **Survey of Two-Dimensional Art. (0-8-4) Su, W, S.** Studio experiences to provide the student with basic knowledge of aesthetic expression through experiences in two-dimensional media. Prerequisite: Art 140 and enrollment in a curriculum for elementary or junior high school teachers.

- 310, 311, 312. **Sculpture I, II, III. (0-8-4 each course)** Advanced work in three-dimensional organization of form; individual concentration toward competent expression in three dimensions. Prerequisite: Art 111.
319. **Survey of Three-Dimensional Art. (0-8-4)** Su, F, S. A study of three-dimensionality in art. Studio experiences include work in ceramics, sculpture, jewelry and crafts. Credit is not granted to students who have received credit in Art 111. Prerequisite: Art 140 and enrollment in a curriculum for elementary or junior high school teachers.
- 325, 326. **Ceramics II, III. (0-8-4 each course)** Projects in hand building or throwing; study of glaze materials and glaze calculations. Prerequisite: Art 225.
327. **Ceramics IV. (0-8-4)** Individual selection of ceramic problems including ceramic sculpture, porcelain, whitewares. Prerequisite: Art 326.
330. **Afro-American Art. (4-0-4) (Omitted 1971-72.)** Contributions of the Negro peoples to the art of the western world.
334. **General Crafts. (0-8-4)** W, S. General course in crafts in which students may elect to work in problems such as mosaics, glass, and wood. Prerequisite: Art 110 or 140 or 165.
340. **Art Education for Elementary Schools. (2-4-4)** F, W, S. Philosophy of art education; study of the developmental stages through grade six; appropriate studio experiences for each stage. Prerequisite: Admission to teacher education.
341. **Art Education for Secondary Schools. (2-4-4)** F, W, S. The study of the philosophy and special problems related to teaching art in the junior and senior high school, with appropriate studio experiences. Prerequisite: Art 340.
356. **Print Making I. (0-8-4)** Survey and laboratory exploration of four methods of print-making: relief, intaglio, planography, and stencil. Prerequisites: Art 100 and 101.
- 357, 358. **Print Making II, III. (0-8-4)** 357 W, S. 358 W, S. Intensive exploration of intaglio and serigraphy as two methods of print making; major emphasis on the intaglio method. Prerequisite: Art 356.
360. **Understanding Art. (4-0-4)** F, W, S. Aesthetic problems and their solutions in various fields of art as related to man and his culture. Not open to students whose major is in art. This course is recommended as partial fulfillment of the humanities requirement. Credit is not granted to students who have credit for Art 165.
361. **Art in Past Cultures. (4-0-4)** Comparative study of subject, form and content in art of past cultures as it relates to purpose and style. Prerequisite: Art 140 or 165 or 360. Not open to students whose major is in art. This course is recommended as partial fulfillment of the humanities requirement.
362. **Art Forms of the Twentieth Century. (4-0-4)** F, W, S. Origins and developments of form and content in twentieth century art. Prerequisite: Art 140 or 165 or 360. Not open to students whose major is in art. This course is recommended as partial fulfillment of the humanities requirement.
363. **Classical Art. (4-0-4) (Omitted 1971-72)** Greek and Roman art, including architecture, painting, sculpture and the minor arts; study of major figures and dominant stylistic tendencies. Prerequisite: Art 262 or 360.
364. **Medieval Art (4-0-4) (Omitted 1971-72.)** Arts of the Middle Ages — Early Christian, Byzantine, Romanesque, and Gothic, emphasizing the transition from pagan to Christian art forms. Prerequisite: Art 262 or Art 360.
365. **Art of the Italian Renaissance. (4-0-4)** W. Evolution and development of art forms in Italy during the fifteenth and sixteenth centuries; emphasis on the painting, sculpture and architecture. Prerequisite: Art 262 or Art 360.
366. **European Art of the Seventeenth and Eighteenth Centuries. (4-0-4)** W. Study of the Baroque style in Italy and Northern Europe, including Rococo manifestations and relationships with the Baroque movement. Prerequisite: Art 261 or 360.

367. **Nineteenth Century European Painting. (4-0-4)** S. Leading artists, movements and trends found in the painting and culture of France, Germany, Spain and England during the nineteenth century. Prerequisite: Art 262 or 360.
368. **Twentieth Century Painting and Sculpture. (4-0-4)** F. Major developments, personalities, and significant achievements in painting and sculpture of the early twentieth century. Prerequisite: Art 262 or 360.
- 369 (463). **Twentieth Century Architecture. (4-0-4)** S. Architecture of the twentieth century; its roots in the past, its forms, its materials, its masters, and its social impact. Prerequisite: Art 262 or 360.
- 370, 371, 372. **Jewelry and Silversmithing II, III, IV. (0-8-4 each course)** Advanced problems in jewelry construction developing previously learned techniques in metal construction; introduction to basic silversmithing processes. Prerequisite: Art 270.
380. **Weaving II. (0-8-4)** Study of the theory of weaving and continued work on multi-harness looms to perfect skills. Experimenting with weaves and materials. Prerequisite: Art 280.
- 390, 391. **Commercial Design I, II. (0-8-4 each course)** Su, W, S. Lettering, posters, layout, current advertising problems. Silk screen, air-brush, and other printing techniques. Display advertising.
- 405, 406, 407. **Painting V, VI, VII. (0-8-4 each course)** Advanced painting in a series of individual problems courses; opportunity for further intensive development of each student's creative expression. Prerequisite: Art 307.
- 410, 411, 412. **Sculpture IV, V, VI. (0-8-4 each course)** Advanced study of sculpture with an increasing depth of experience in form and material. Organization of an individual plan of work. Prerequisite: Art 312.
- 425, 426, 427. **Ceramics V, VI, VII. (0-8-4 each course)** Development of techniques and processes to a level of professional attainment; emphasis upon growth in the area of student interest. Prerequisite: Art 327.

COURSES OPEN TO JUNIORS, SENIORS, AND GRADUATE STUDENTS

465. **The Visual Arts in the Elementary and Junior High School. (4-0-4)** W. Our cultural heritage in visual arts for teachers; approaches to fostering appreciation of this heritage. Prerequisite: Art 244. Not open to students whose major is in art.
469. **Studies in Art History and Criticism. (4-0-4)** Seminar studies in painting, sculpture and architecture. Prerequisite: Permission of the instructor.
470. **Metalsmithing—Casting. (0-8-4)** Advanced problems in casting techniques, using various metals. Prerequisite: Art 370.
471. **Metalsmithing—Raising and Forging. (0-8-4)** Hot forging; "Dutch and English" raising techniques; forming of seamed holloware; theories and practices of assembly in holloware. Prerequisite: Art 370.
472. **Metalsmithing—Chasing, Repousse and Electroforming. (0-8-4)** Introduction to electroforming; expansion of chasing and repousse techniques. Prerequisite: Art 370.
475. **Sources and Methods of Art History. (4-0-4)** F. A study of archaeological and documentary sources relative to the writing of art history; the systematic correlation of factual information. Prerequisite: Twelve quarter hours in art history courses numbered 300 or higher.
476. **The Art of the Ancient Near East. (4-0-4)** (Omitted 1971-72.) A study of the art of the Tigris-Euphrates Valley cultures from about 3500 to 500 B. C. Sumerians, Babylonians, Hittites, Assyrians, and Persians. Prerequisite: Twelve quarter hours in art history courses numbered 300 or higher.

477. **Art of Ancient Egypt. (4-0-4) Su.** A study of the evolution of architectural monuments and their attendant art from the Predynastic era to the Ptolemaic period. Prerequisite: Twelve quarter hours in art history courses numbered 300 or higher.

GRADUATE COURSES

(Courses numbered 500-549 inclusive may be taken by a senior whose grade point average is 3.0 or higher, with permission of the instructor and the Dean of the Graduate School. Courses numbered 550 and above are open only to graduate students.)

510. **Materials for Designing I. (0-8-4)** Experimentation with various materials, limitations, possibilities, adapted to teaching situations. Problems varied to meet individual needs.
520. **Painting Problems I. (0-8-4) Su, F, W.** Techniques and media used by painters in development of different styles of painting, with opportunity for experience in working in each. Prerequisite: Three undergraduate courses in painting.
550. **Contemporary Trends in Visual Arts. (4-0-4) Su.** Role and evaluation of visual arts in contemporary living. Credit applicable only to the Group III requirement for the degree M.S. in Ed.
551. **Great Artists. (4-0-4) (Omitted 1971-72.)** A cross-section of art history presented by the study of great artists. Credit applicable only to the Group III requirement for the degree M.S. in Ed.
556. **Contemporary Printmaking. (0-8-4) Su, F.** A study of styles and techniques of contemporary printmakers. Prerequisite: Two courses in undergraduate printmaking or permission of the instructor.
- 557, 558, 559. **Advanced Ceramics. (0-8-4 each course)** Advanced problems in ceramic design and construction and in the preparation of glazes and bodies. Prerequisites: Art 225, 325, and 326 or equivalent.
560. **Materials for Designing II. (0-8-4) W.** Advanced study of organization of form employing a variety of materials.
561. **Advanced Drawing. (0-8-4) F, W.** Development of personal expression in drawing and marking systems. Prerequisite: Three courses in undergraduate drawing or permission of the instructor.
562. **Watercolor. (0-8-4) Su, S.** Advanced study in various watercolor media. Prerequisite: Three courses in undergraduate painting.
- 567, 568, 569. **Advanced Study in Sculpture VII, VIII, IX. (0-8-4 each course)** Advanced study in sculpture with emphasis placed on the materials, processes and form of sculptural expression. Prerequisites: Three undergraduate courses in sculpture or permission of graduate committee.
570. **Painting Problems II (0-8-4)** Independent study in painting. Prerequisite: Art 520.
571. **Painting Problems III. (0-8-4) Su, S.** Emphasis is placed upon the construction and development of form. Prerequisite: Art 570.
- 577, 578, 579. **Jewelry and Metalsmithing. (0-8-4 each course)** Advanced problems in metalsmithing with research, experimentation and development in a specific area. Prerequisites: Eight quarter hours equivalent to Art 270 and 370.
580. **Research in Art Education. (Arr.-Arr.-4) Su.** Familiarization with research in art education, the study of methods and structure of research, and the initiation of research projects. Restricted to art majors only.
- 587, 588, 589. **Problems in 19th and 20th Century Art. (4-0-4 each course) Su.** A seminar dealing with the major stylistic developments in European and American art during the period from 1880 to 1960. Individual research.

591. **Problems in Art Education. (Arr.-Arr.-4)** Su, S. Statement, analysis and evaluation of current problems in the teaching of art in the public schools and junior college. Prerequisite: At least one course in undergraduate art methods and permission of instructor.
592. **Art Internship. (Arr.-Arr.-4)** Supervised intern teaching in various areas of the college art curriculum. Prerequisite: Permission of the department head.
595. **Thesis. (Arr.-Arr.-4)**
- 597, 598, 599. **Independent Study. (Arr.-Arr.-4 each course)** Advanced independent study in a major area of concentration in studio. Prerequisites: All other graduate courses in student's area of specialization and permission of instructor.

BOTANY

Note: For the Botany Major, courses are grouped for curriculum selection as follows:

Required courses: Botany 101, 102, 229, 230, 354

Group I: 335, 336, 454

Group II: 456, 459, 461

Group III: 332, 345, 430, 435, 436, 438, 440, 450, 453, 499

UNDERGRADUATE COURSES

101. **General Botany. (2-4-4)** The diversity of plants; the structure and function of the seed plant. Prerequisite: Life Science 100.
- 102 (222). **Survey of Local Flora. (2-4-4)** Su, F, S. The identification and recognition of local plants. Prerequisite: Botany 101.
229. **Morphology of Lower Plants. (2-4-4)** The classification, structure, and life histories of algae and fungi. Prerequisite: Botany 101.
230. **Morphology of Higher Plants. (2-4-4)** The classification, structure, and life histories of bryophytes and vascular plants. Prerequisite: Botany 101.
234. **Food and Sanitary Microbiology. (2-4-4)** Microorganisms; with special emphasis on consumer microbiology, including foods, dairy products, industry, medicine, water, and sanitation. Prerequisite: One quarter of laboratory science. This course is designed for the home economics, elementary and junior high school curricula; not to count toward a botany major or minor.
325. **Elementary Medical Microbiology. (2-4-4)** W. The basic principles and laboratory procedures of medical microbiology. Prerequisites: Three quarters of biology and three quarters of chemistry. This course is designed for students in medical technology, pre-dentistry, pre-medicine, and pre-veterinary medicine.
- 332 (232). **Economic Botany. (4-0-4)** The origin and utilization of plant products. Prerequisite: Botany 101; Botany 102 recommended. This course is not to count toward the natural sciences requirement.
335. **Introductory Bacteriology. (2-4-4)** The basic principles and laboratory procedures of bacteriology. Prerequisites: Three quarters of biological sciences and three quarters of chemistry. This course is designed for majors and minors in the biological sciences.
- 336 (350). **Genetics. (2-4-4)** Su, W. Principles of heredity and variation in living organisms with special emphasis on plants. Prerequisites: Twelve quarter hours in biological sciences. Credit not granted to those with credit in Zoology 336.
345. **Independent Study. (Arr.-Arr.-4)** The student must submit an outline of his plan of work to the Department Head for approval and assignment to an instructor. Prerequisite: Botany major or minor.

- 354 (254). **Introductory Plant Physiology. (2-4-4)** S. Water relations; mineral nutrition; phytohormones; environmental effects on plant growth and development. Prerequisite: Botany 101. Twelve quarter hours of chemistry is required.
430. **Introductory Phycology. (2-4-4)** S. The structure, classification, and importance of algae, with emphasis on fresh-water forms. Prerequisite: Botany 229.
435. **Intermediate Bacteriology. (2-4-4)** S. Microbial physiology as it relates to taxonomy, ecology, and applied bacteriology. Prerequisite: Botany 335.
436. **Introductory Mycology. (2-4-4)** W. The structure, classification, and importance of fungi. Prerequisite: Botany 229.
438. **Introductory Plant Pathology. (2-4-4)** F. General aspects of cause, symptoms, spread and control of plant diseases. Prerequisite: Botany 229.
440. **Introductory Paleobotany. (2-4-4)** F. The fossil plants of past geological eras. Prerequisites: Botany 229 and 230; Geology 243 is recommended.

COURSES OPEN TO JUNIORS, SENIORS, AND GRADUATE STUDENTS

450. **Tropical Botany. (4-14-12)** Su. The taxonomy and ecology of the plants of Mexico. (Four weeks on campus and six weeks in Mexico). Prerequisites: Life Science 100 or Botany 101. Only four quarter hours may be counted toward the hours in botany required for the botany major and minor and the zoology major.
453. **Plant Microtechnique. (2-4-4)** W. Techniques of preparing microscope slides of plant material. Prerequisite: Botany 456 recommended.
454. **Intermediate Plant Physiology. (2-4-4)** Su, S. Metabolic effects on plant growth and development; photosyntheses; respiration; physiological ecology. Prerequisites: Botany 354 and one year of chemistry.
456. **Plant Anatomy. (2-4-4)** S. The tissues and elements which comprise the vegetative plant body of seed plants. Prerequisite: Botany 230.
459. **Systematic Botany. (2-4-4)** F. Common families of flowering plants; current trends in plant classification. Prerequisite: Botany 102.
461. **Plant Ecology. (2-4-4)** Su, F. Community structure, successional patterns and basic investigational techniques. Prerequisites: Botany 102 and two advanced courses in botany or related fields. Botany 354 and 459 are recommended.
499. **Seminar. (2-0-2)** F, W, S. Reports and discussions of selected topics in botany. Prerequisites: Five courses in botany. With permission of the department head this course may be taken twice for credit.

GRADUATE COURSES

(Courses numbered 500-549 inclusive may be taken by a senior whose grade point average is 3.0 or higher, with permission of the instructor and the Dean of the Graduate School. Courses numbered 550 and above are open only to graduate students.)

- 510, 511. **Basic Botany. (2-4-4 each course)** Su. An introductory laboratory and field study of living plants — their growth, development and distribution. Prerequisite: For participants in NSF Summer Institute or similarly qualified science teachers.
520. **Plant Geography. (2-4-4)** (Omitted 1971-72.) Factors influencing vegetational distribution, especially as illustrated in North America. Prerequisite: Botany 461.
530. **Phycology. (2-4-4)** (Omitted 1971-72.) A comparative morphological and physiological survey of the major groups of algae, including both fresh-water and marine forms. Prerequisite: Botany 229.
532. **Bryology. (2-4-4)** (Omitted 1971-72.) The taxonomy, morphology, physiology, and ecology of mosses and liverworts. Prerequisite: Botany 230.

535. **Advanced Bacteriology. (2-4-4) W.** Selected topics in bacterial cytology and physiology. Prerequisite: Botany 335; Chemistry 234, 243, 244, or permission of instructor.
536. **The Lower Fungi. (2-4-4) (Omitted 1971-72.)** The taxonomy, morphology, and ecology of the major groups of Phycomycetes and related fungi. Prerequisite: Botany 229; Botany 335 is recommended.
537. **The Higher Fungi. (2-4-4) S.** The taxonomy, morphology, and ecology of the major groups of Ascomycetes and Basidiomycetes. Prerequisite: Botany 229; Botany 335 is recommended.
538. **Plant Pathology. (2-4-4) (Omitted 1971-72.)** The causes and controls of plant diseases; representative plant diseases. Prerequisite: Botany 229.
540. **Paleobotany. (2-4-4) F.** Fossil plants and their contribution to the understanding of plant evolution. Prerequisites: Botany 229 and 230; Geology 243 is recommended.
545. **Ethnobotany. (2-4-4) W.** The relationship between plants and man, with emphasis on primitive man. Prerequisite: Botany 101 or by permission of instructor.
547. **Advanced Plant Physiology—Inorganic Nutrition. (2-4-4) F.** Absorption, translocation, and function of the essential mineral elements; water relations in plants; soils. Prerequisites: Botany 454 and Chemistry 243 or 346.
548. **Advanced Plant Physiology—Metabolism. (2-4-4) W.** Photosynthesis; respiration; organic translocation; utilization of fats, carbohydrates, and proteins. Prerequisites: Botany 454 and Chemistry 243 or 346.
560. **Cytogenetics. (2-4-4) S.** The structure and function of chromosomes and other cell organelles; evolution and variation of karyotypes. Prerequisite: Botany 336.
561. **Ecological Methods. (2-4-4) S.** Vegetation and soil analyses, microenvironmental measurements and physiological procedures used in ecological studies. Prerequisite: Botany 461 or equivalent.
569. **Advanced Taxonomy. (2-4-4) (Omitted 1971-72.)** Genetics, cytology, and their relation to the evolution of Angiosperms. Prerequisite: Botany 459 or permission of instructor.
- 575, 576, 577, 578. **Advanced Botany. (Arr.-Arr.-4 each course)** Advanced work in a selected field of botany. Prerequisite: At least a minor in botany or its equivalent and the instructor's permission.
595. **Thesis. (Arr.-Arr.-4)**

BUSINESS ADMINISTRATION

GRADUATE COURSES

(Courses numbered 500-549 inclusive may be taken by a senior whose grade point average is 3.0 or higher, with permission of the instructor and the Dean of the Graduate School. Courses numbered 550 and above are open only to graduate students.)

530. **Quantitative Analysis. (4-0-4) F.** Designed to provide students with skills in quantitative techniques necessary for advanced work in functional areas of business administration.
531. **Communication Analysis. (4-0-4) F.** Analysis of the functions, planning, psychology, and organization of selected types of written and oral business communications.
532. **Management Information Systems. (4-0-4) F.** The accumulation, processing, analysis, and utilization of data pertinent to the operation of a business firm. Prerequisite: Management 230.
533. **Production Management. (4-0-4) F.** An examination of operating problems from the standpoint of the production executive. Prerequisite: Management 251.

534. **Foundations of Business Enterprise. (4-0-4) F.** The historical development of business enterprises; the social and economic role of the executive; the evolution of business organizations.
560. **Managerial Accounting. (4-0-4) W.** Accounting is viewed by the user rather than the supplier of financial data. Prerequisite: Accounting 232.
561. **Marketing Management. (4-0-4) W.** The techniques of management as they are applied to the functional areas of marketing. A case problems course interspersed with related readings and lectures. Prerequisites: Marketing 247, Economics 256.
562. **Operations Research. (4-0-4) W.** Principles and methods of operations research: topics in linear programming, PERT, inventory models, queuing theory, simulation, and probability theory. Prerequisite: Business Administration 530 or equivalent.
563. **Manpower Management. (4-0-4) W.** A comprehensive study of personnel programs and their management in formal organizations; research into the operation of personnel management.
564. **Financial Management. (4-0-4) A** financial approach to management; the sources and uses of funds. Lectures, cases, and current readings in the field. Prerequisite: Management 370.
580. **Seminar in Accounting Theory. (4-0-4) S.** An analysis of the techniques, origin, development, and adequacy of basic theoretical concepts underlying the practice of accounting. Prerequisite: Accounting 232.
581. **Seminar in Marketing Theory. (4-0-4) S.** The discipline of marketing is examined. Past and present writings of marketing scholars will be studied and reported. Prerequisite: Business Administration 561 or Marketing 487.
582. **Seminar in Organization Theory. (4-0-4) S.** Value systems underlying management thought. The behavioral sciences as they pertain to organization behavior and practice. Prerequisite: Management 251.
583. **Seminar in Business Finance. (4-0-4) S.** Analysis of money markets from the investor's point of view. A study of financial institutions and their influence on money markets. Prerequisite: Business Administration 564.
590. **Administrative Policy. (4-0-4) S.** Top-management functioning. Emphasis is on integration of functions. Case studies, special reports, and seminar discussions of top management problems. Prerequisite: At least sixteen quarter hours in Business Administration courses.
595. **Thesis. (Arr.-Arr.-4)**

BUSINESS EDUCATION AND SECRETARIAL STUDIES

110. **Typewriting. (4-0-4)** Beginning touch typing instruction. Minimum speed requirement: twenty-five gross words a minute for three minutes. No credit toward graduation for students who have had equivalent of one semester of typewriting instruction.
111. **Typewriting, Continued. (4-0-4) F, W, S.** Development of skill in machine operation. Minimum speed requirement: thirty words a minute for five minutes. Prerequisite: Business Education 110 or equivalent. No credit toward graduation for students who have had equivalent of two semesters of typewriting instruction.
112. **Typewriting, Continued. (4-0-4) F, W, S.** The typewriter as a business communications tool. Minimum speed requirement: thirty-five gross words a minute for five minutes. Prerequisite: Business Education 111 or equivalent. No credit toward graduation for students who have had equivalent of three semesters of typewriting instruction.
123. **Shorthand. (4-0-4) F, W.** Beginning instruction in Gregg Shorthand, Diamond Jubilee Series. Principles, brief forms, and phrasing. No credit toward graduation for students who have had equivalent of one semester of shorthand instruction.

124. **Shorthand, Continued. (4-0-4) W, S.** Dictation from familiar material using Gregg Shorthand, Diamond Jubilee Series. Prerequisite: Business Education 123 or equivalent. No credit toward graduation for students who have had equivalent of two semesters of shorthand instruction.
125. **Shorthand, Continued. (4-0-4) F, S.** Vocabulary building. Introduction to transcription. Dictation from new material prepares the student for taking dictation in the business office. Prerequisite: Business Education 124 or equivalent. No credit toward graduation for students who have had equivalent of three semesters of shorthand instruction.
210. **Advanced Typewriting. (4-0-4)** Advanced office projects. Minimum speed requirement: forty net words a minute for five minutes. Prerequisite: Business Education 112 or equivalent.
211. **Advanced Typewriting, Continued. (4-0-4) Su, W, S.** Production under rigorous business standards. Minimum speed requirement: fifty net words a minute for five minutes. Prerequisite: Business Education 210 or equivalent.
223. **Advanced Shorthand. (4-0-4) F, W.** Transcription of business letters from dictated notes. Minimum speed requirement: eighty words a minute with 98 per cent accuracy. Prerequisite: Business Education 125 or equivalent and Business Education 112 or equivalent.
224. **Advanced Shorthand, Continued. (4-0-4) W, S.** Production standards in note taking and transcription. Minimum speed requirement: one hundred words a minute with 98 per cent accuracy. Prerequisite: Business Education 223 or equivalent.
225. **Secretarial Practice. (4-0-4) Su, S.** Professional secretarial levels for business and the professions. Minimum speed requirement: one hundred twenty words a minute with 98 per cent accuracy. Prerequisites: Business Education 224 or equivalent and Business Education 210 or equivalent.
300. **Consumer Education. (4-0-4)** Factors affecting family financial management, including investments and savings; use of credit; insurance and taxes. Team taught with Home Economics 300.
322. **Business Machine Computation. (4-0-4) F, W, S.** Operation and application of adding and calculating machine processes to business and statistical computation.
323. **Records Management and Office Communication. (4-0-4) F, W, S.** Records creation, use, retention, transfer, and disposal; dictation equipment, duplicating equipment, special-purpose typewriters, and card punch unit. Prerequisite: Business Education 111 or equivalent.
340. **Methods of Teaching Bookkeeping and the Basic Business Subjects. (4-0-4)** Specific teaching methods, content, textbooks, teaching materials, and audio-visual aids in the bookkeeping and non-skill subjects. Prerequisite: Admission to teacher education and junior standing.
342. **Methods of Teaching Shorthand and Transcription. (4-0-4)** Specific teaching methods, content, textbooks, teaching materials, and audio-visual aids in the secretarial business subjects. Prerequisite: Admission to teacher education and junior standing.
344. **Methods of Teaching Typewriting and Office Practice. (4-0-4)** Specific teaching methods, content, textbooks, teaching materials, and audio-visual aids in the clerical business subjects. Prerequisite: Admission to teacher education and junior standing.
440. **Supervised Experiences in School Business Management. (Arr.-Arr.-4) F, W, S.** School Business practices are studied under the direction and supervision of a school business manager. Prerequisite: Permission of Head of Department of Business Education and Secretarial Studies.

COURSES OPEN TO JUNIORS, SENIORS, AND GRADUATE STUDENTS

453. **Office Management. (4-0-4) S.** Duties and responsibilities of the office manager and supervisor.

492. **Organization and Operation of Vocational Business Education Programs. (4-0-4) F, S.** Vocational office and distributive education programs as provided by the Vocational Education Act of 1963 and Amendments to that Act.
493. **Teaching Techniques in Vocational Business Education. (4-0-4) F, W.** Vocational counseling, teaching, and supervision in reimbursable vocational classwork and part-time work experience programs.
494. **Coordination Techniques in Vocational Business Education. (4-0-4) W, S.** Duties and responsibilities of the Office Occupations and Distributive Education coordinator in a reimbursable vocational program.
- 495 (490). **Internship in Vocational Business Education. (Arr.-Arr.-4)** A minimum of 180 hours employment in a firm approved by the instructor; a training memorandum and approval prior to enrollment is required. Prerequisite: Acceptance of the student by a business firm and by the instructor as evidenced by a training memorandum.
498. **Independent Study. (Arr.-Arr.-4)** Student selects problem area in cooperation with the instructor, conducts program of organized research and reading, prepares written formal report. Prerequisite: Senior or graduate standing with strong scholarship as evidenced by cumulative grade point average and permission of Head of Department of Business Education and Secretarial Studies.

GRADUATE COURSES

(Courses numbered 500-549 inclusive may be taken by a senior whose grade point average is 3.0 or higher, with permission of the instructor and the Dean of the Graduate School. Courses numbered 550 and above are open only to graduate students.)

505. **Occupational Cooperative Education. (Arr.-Arr.-4) Su.** A study of part-time, on-the-job education utilizing the resources of the community and the school. Team teaching in Business Education, Education, Health Education, Home Economics, and Industrial Arts. A student may take the course for credit in only one of the departments.
506. **Administration and Supervision of Occupational Education. (Arr.-Arr.-4) Su.** To prepare personnel for administering and supervising occupational education programs. Team teaching in Business Education, Education, Health Education, Home Economics, and Industrial Arts. A student may take the course for credit in only one of the departments.
- 507, 508, 509. **Seminar in Occupational Education. (Arr.-Arr.-4 each course) Su.** Intensive study of contemporary problems, issues, trends and developments in occupational education and technology. Offered in Business Education, Education, Health Education, Home Economics, and Industrial Arts. A student may take each course for credit in only one of the departments.
510. **Theoretical Issues in Accounting. (4-0-4) (Omitted 1971-72)** An analysis of accounting concepts, viewed in an ideal framework. For teachers of business subjects having minimum of one year of accounting.
513. **Contemporary Issues in Marketing. (4-0-4) Su.** Current issues involved in the delivery of a standard of living. Reading and reporting on the literature of the field. For teachers of business subjects having little or no marketing background.
516. **Contemporary Issues in Management. (4-0-4) (Omitted 1971-72)** Current problems in the various areas of management and a study of new management techniques. For teachers of business subjects having little or no management coursework background.
519. **Foundations of American Business. (4-0-4) (Omitted 1971-72)** The historical development of American business and industry. The evolution of business practices and principles.
520. **Practicum in Data Processing. (4-0-4) Su.** Nature and function of unit record with special emphasis on the development of teaching materials. Not open to students with credit in Management 230 or equivalent.

570. **Foundations in Business Education. (4-0-4) W.** Philosophies and objectives of business education, evolution of the business curriculum, developments in occupational business education.
572. **Problems in Business Education. (4-0-4) Su.** Current issues and problems in business education curriculum and practices which arise from needs and interests of students.
573. **Measurement and Evaluation in Business Education. (4-0-4) Su.** Testing techniques; construction of tests in cognitive and skill areas; statistical procedures necessary for test interpretation and use.
574. **Improvement of Instruction in Bookkeeping and the General Business Subjects. (4-0-4) F.** Methods and techniques of teaching, development of materials, research in bookkeeping, record keeping, and general business courses.
575. **Improvement of Instruction in Office Procedures and Data Processing. (4-0-4) (Omitted 1971-72.)** Methods and techniques of teaching, instructional materials and media, research in office procedures and data processing courses.
576. **Improvement of Instruction in Shorthand and Secretarial Skills. (4-0-4) Su.** Methods and techniques of teaching; instructional media, materials and equipment; research in shorthand and secretarial skill courses.
577. **Touch Shorthand in the Secretarial Studies Curriculum. (4-0-4) F.** Specific teaching techniques, initial mastery of the touch shorthand theory, and development of basic recording skill at the keyboard of the shorthand machine. Prerequisite: Basic ability in a system or manual shorthand. Laboratory fee to cover cost of machine rental and supplies.
578. **Improvement of Instruction in Typewriting and Office Practice. (4-0-4) S.** Methods and techniques of teaching; instructional media, materials, and equipment; research significant to the teaching of typewriter-related skills.
595. **Thesis. (Arr.-Arr.-4)** Plan, design, and conduct of research culminating in formal written report of research findings, conclusions, and recommendations.

CHEMISTRY

UNDERGRADUATE COURSES

Chemistry 110, 111, and 112 is a year's sequence planned as a general cultural course and is open only to non-science majors.

Chemistry 120, 121, and 122 is a year's sequence planned primarily for students in the biological sciences and the various pre-professional programs in the medical related fields. For those not qualified in terms of background for Chemistry 150, but who are required to take Chemistry 151 and 152, the student may substitute Chemistry 120 and 121 for Chemistry 150.

Chemistry 150, 151 and 152 is a year's sequence planned primarily for students majoring in the sciences, mathematics and pre-engineering. The approach is more quantitative than in the other sequences and a reasonably good background in high school chemistry and in mathematics is required.

Except for the sequence Chemistry 120, 121, 151, 152, only three 100-level chemistry courses can be accepted for credit toward graduation. The following are acceptable sequences: 110, 111, 112; 120, 121, 122; 150, 151, 152; 120, 151, 152; 120, 151, 122; 150, 121, 122; 150, 151, 122.

Note: A breakage fee of \$3.00 is charged for laboratory courses in Chemistry. The unused portion is returnable at the end of the course.

100 (Physical Science 101). Chemistry for Elementary and Junior High Education. (2-4-4)

Principles of chemistry having particular application in the fields of elementary and junior high education are presented. Restricted to students in curricula for elementary and junior high school teachers. Credit cannot be accepted toward a degree for both Chemistry 100 and 110 or 120 or 150.

- 110, 111, 112. **A Survey of Chemistry.** (2-4-4 each course) 110-Su, F, W; 111-W, S; 112-Su, S. A three quarter terminal course covering the principles and cultural aspects of inorganic, organic and biochemistry. To be taken in sequence. These courses may not be used as a prerequisite to advanced work in chemistry. Not open to majors in botany, chemistry, geology, mathematics, physics, zoology or any of the pre-professional programs in engineering or the medically related fields.
- 120, 121, 122. **Elementary Chemistry.** (3-3-4 each course) A study of the principles of chemistry and the properties of some metals and non-metals. Qualitative analysis is part of the third term. To be taken in sequence.
- 150, 151. **General Chemistry.** (3-3-4 each course) 150-F; 151-W, S. The principles of chemistry are stressed from a quantitative standpoint. Prerequisite: One unit of high school chemistry and two and one-half units of high school mathematics. Students with less than a B- average in high school chemistry or less than a C+ average in mathematics are advised to take both Chemistry 120 and 121 in place of Chemistry 150. Either Chemistry 150 or Chemistry 120 and 121 are prerequisite to Chemistry 151. To be taken in sequence.
152. **General Chemistry and Qualitative Analysis.** (2-5-4) Su, S. A continuation of Chemistry 150 and 151. The laboratory work is concerned with semi-micro qualitative analysis. Prerequisite: Chemistry 151.
234. **Elementary Quantitative Analysis.** (2-6-4) Su, F, S. The general principles of volumetric and gravimetric analysis with an introduction to spectrophotometry. Prerequisite: Chemistry 122 or 152; one course in college mathematics. Credit not granted to those with credit in Chemistry 330.
- 243, 244, 245. **Organic Chemistry.** (2-4-4 each course) 244-Su, W, S; 245-S. Studies of aliphatic and aromatic compounds with an introduction to the theories of organic chemistry and reaction mechanisms. Prerequisite: Chemistry 122 or 152 or simultaneous registration therein. To be taken in sequence. Credit not granted to those with credit in Chemistry 283, 284, 285.
- 283, 284, 285. **Organic Chemistry for Majors.** (3-6-5 each course) 283-F; 284-W; 285-S. Studies of aliphatic and aromatic compounds, stressing theories and reaction mechanisms. The laboratory work includes qualitative analysis. Prerequisite: Chemistry 152 or simultaneous registration therein. To be taken in sequence. Credit not granted to those with credit in Chemistry 243, 244, 245. Non-majors may register for these courses with permission of the department head.
330. **Quantitative Analysis for Majors.** (3-6-5) F. A study of the principles and practice of gravimetric and volumetric analysis, chemical stoichiometry and the evaluation of analytical data. Prerequisites: Chemistry 152 and 283 or simultaneous registration therein. Credit not granted to those with credit in Chemistry 234. Non-majors may register for this course with permission of the department head.
342. **Practicum in Chemistry.** (0-2-1) Practical experience in preparing and handling chemical materials, supervising a chemical stockroom and assisting in a chemistry laboratory. Prerequisite: Two years of college chemistry. Should be completed prior to student teaching. Enrollment is restricted to chemistry majors.
346. **Biochemistry.** (3-3-4) Su, S. Chemistry of biologically important compounds and an introduction to their roles in living material. Prerequisite: Chemistry 244; (Chemistry 234 is recommended.)
- 400, 401. **Undergraduate Seminar.** (1-0-1 each course) F, W, S. A thorough search of a recent development in chemistry and the presentation of a talk based on this search. To be taken in sequence. 400 for juniors; one meeting per week, F, W, S. 401 for seniors; one meeting per week, F, W, S.
403. **Chemical Literature.** (2-0-2) F. An introduction to use of the various kinds of chemical literature. Restricted to chemistry majors.

- 420, 421, 422, 423. **Independent Study.** (0-6-2 each course) Laboratory or library problems in which the student works under the supervision of a staff member. A written report is required. Prerequisite: Permission of the instructor and department head. Two or more of these courses may be taken simultaneously.

COURSES OPEN TO JUNIORS, SENIORS, AND GRADUATE STUDENTS

461. **Modern Inorganic Chemistry.** (3-3-4) W. A study of the structures and reactions of inorganic compounds with particular emphasis on chemical bonding and coordination theory.
470. **Instrumental Methods of Analysis.** (2-6-4) F, S. Instrument design, operation and applications of UV, visible, IR, flame and atomic spectroscopy, VPC, potentiometry and polarography. Prerequisites: Chemistry 284 and 330 or permission of instructor.
481. **Qualitative Organic Analysis.** (2-5-4) Su, W. Organic structure determination with emphasis on modern instrumental techniques. Prerequisite: Chemistry 285 or simultaneous registration therein.
- 491, 492, 493. **Physical Chemistry.** 491-(4-0-4)-F; 492-(3-3-4)-W; 493-(3-3-4)-S. A study of the principles governing chemical change. Included are: thermodynamics, kinetics, quantum theory and statistics. Prerequisites: Chemistry 283 (or 243), 330 (or 234), Mathematics 236 or simultaneous registration therein; Physics 130, 131, 132.
494. **Nuclear Chemistry.** (2-4-4) Su, F. Radioactivity and the radioactive properties of isotopes are studied in relationship to their chemical properties and uses. Prerequisite: Five terms of chemistry including Chemistry 330 (or 234).

GRADUATE COURSES

(Courses numbered 500-549 inclusive may be taken by a senior whose grade point average is 3.0 or higher, with permission of the instructor and the Dean of the Graduate School. Courses numbered 550 and above are open only to graduate students.)

501. **History of Chemistry.** (4-0-4) (Omitted 1971-72.) The historical development of the science of chemistry is studied with the extensive use of reference materials. Prerequisite: Two years of chemistry.
- 510, 511. **Basic Chemistry.** (2-4-4 each course) Su. Fundamental concepts of general chemistry. Prerequisite: For participants in NSF Summer Institute or similarly qualified science teachers.
512. **Theoretical Inorganic Chemistry I.** (4-0-4) F. Topics included are: Modern theories of chemical bonding, magnetic properties, electron spin resonance and organometallic chemistry. Prerequisites: Chemistry 461 and 493.
513. **Theoretical Inorganic Chemistry II.** (4-0-4) Su, S. The application of group theory to ligand field, molecular orbital and valence bond theories and to IR, Raman and UV-VIS spectroscopy. Prerequisites: Chemistry 461 and 493.
520. **Chemical Thermodynamics.** (4-0-4) Su, F. A study of the laws governing the passage of energy from one chemical system to another and the transformation of energy from one form to another. Prerequisite: Chemistry 493.
522. **Electrochemistry.** (4-0-4) (Omitted 1971-72.) A study of equilibrium and non-equilibrium properties of electrolyte solution, including activities, conductance, diffusion and electrode phenomena. Prerequisite: Chemistry 520.
523. **Quantum Chemistry.** (4-0-4) S. A study of the structure of atoms and molecules as explained by quantum theory. Applications to questions of chemical interest are emphasized. Prerequisite: Chemistry 493.
528. **Chemical Kinetics.** (4-0-4) W. A study of the rates and mechanisms of chemical reactions and those factors influencing the rate process. Prerequisite: Chemistry 520 or permission of instructor.

530. **Molecular Spectroscopy. (4-0-4) Su, W.** A study of the quantum principles, theory and applications of microwave, IR, UV, and NMR spectroscopy. Prerequisite: Chemistry 493; Chemistry 470 is desirable.
540. **Organic Mechanisms. (4-0-4) F.** A study of the mechanisms of reactions in organic chemistry. Prerequisites: Chemistry 285 and 493 or permission of the department head.
541. **Physical Organic Chemistry. (4-0-4) S.** A course covering certain aspects of physical chemistry as related to organic molecules and their reactions. Prerequisites: Chemistry 285, 493.
543. **Special Topics in Organic Chemistry. (4-0-4) W.** A study of topics not ordinarily covered in the basic introductory organic chemistry courses. Prerequisite: Chemistry 285; Chemistry 493 recommended.
546. **Biochemistry. (4-0-4) (Omitted 1971-72.)** General biochemistry; basic mechanisms of biological processes; enzyme action; genetic and hormonal control; metabolic cycles. Prerequisites: Chemistry 284 and 330.
556. **Research in Chemistry.** (May be taken one, two or three times for 4, 8 or 12 q. hrs.) A problem is selected in the area of the student's major interest after consultation with the department head and the instructor. Prerequisite: Permission of the department head.
595. **Thesis. (Arr.-Arr.-4)**

ECONOMICS

UNDERGRADUATE COURSES

254. **Principles of Economics. (4-0-4)** A short introduction followed by a macroeconomic analysis of monetary and fiscal policy.
255. **Principles of Economics (continued). (4-0-4)** Microeconomic analysis concerned with product and factor pricing. Prerequisite: Economics 254.
256. **Principles of Economics (continued). (4-0-4)** Problem solving in an international and domestic setting. Prerequisite: Economics 255.
- 353 (356). **Government and Business. (4-0-4) W.** The market structures in which business operates; public policies for regulation and control of those markets. Prerequisite: Economics 256 or permission of the instructor.
357. **Labor Economics. (4-0-4) Su, F.** Wage theory, history of the labor movement, collective bargaining, labor law, and protective labor legislation. Prerequisite: Economics 256 or permission of the instructor.
- 370 (320). **International Economics. (4-0-4) Su, F.** Principles of foreign trade and finance; balance of payments; tariffs; quotas and commercial policies of major countries. Prerequisite: Economics 256 or permission of instructor.
- 385 (485). **Public Finance. (4-0-4) Su, W.** A study of taxation, government spending, public debt, and their importance to economic welfare. Prerequisite: Economics 256.
397. **Economic Development of Modern Europe. (4-0-4) W.** A survey of the economic history of Europe with primary emphasis on the period after 1850. Prerequisite: Economics 256 or permission of the instructor.
- 398 (358). **American Economic Development. (4-0-4) S.** Evolution of the economy with emphasis on basic economic institutions and major forces in the process of growth and development. Prerequisite: Economics 256.
399. **Summer Study in Ireland. (0-0-9) Su.** Independent study in economics. Six weeks of residence in the Republic of Ireland will be required. Open to juniors and seniors.

COURSES OPEN TO JUNIORS, SENIORS, AND GRADUATE STUDENTS

- 456 (475). **Government and Labor. (4-0-4) S.** Federal and state laws dealing with collective bargaining, strikes, and internal affairs of labor unions are examined in detail. Prerequisite: Economics 357 or permission of the instructor.
458. **The Economics of Human Resources. (4-0-4) S.** A survey of the field of human resource development with emphasis on policies for correcting problems of structural unemployment and underemployment. Prerequisite: Economics 256, or graduate standing and permission of the instructor.
- 459 (477). **Economics of Collective Bargaining. (4-0-4) W.** The subjects of collective bargaining and the resolution of conflict are studied on the theoretical and descriptive levels. Prerequisite: Economics 357 or permission of the instructor.
460. **Intermediate Economic Analysis. (4-0-4) F.** An analysis of commodity and factor price theory under alternative market classifications. Prerequisite: Economics 256.
462. **Economic Stability and Growth. (4-0-4) W.** An analysis of factors affecting national economic activity including detailed analysis of consumption, investment, growth, and inflation. Prerequisite: Economics 256.
463. **Mathematical Economics. (4-0-4) S.** The application of mathematical tools to economics. Various economic theories are formulated in a mathematical framework. Prerequisites: Mathematics 135 and Economics 460, or permission of the instructor.
- 464 (454). **History of Economic Thought. (4-0-4) F.** The ancient world; scholasticism, mercantilism; the physiocrats; Adam Smith and classical economics; Marx; Veblen; Keynes. Prerequisite: Economics 256.
466. **Statistics Applied to Economics. (4-0-4) F.** Measures of central tendency and dispersion, statistical distributions, and hypothesis testing with applications to economics. Prerequisite: Economics 256 or permission of instructor. No credit toward graduation for a student with credit in another introductory statistics course.
469. **Statistics Applied to Economics - continued. (4-0-4) W.** Nonparametric statistics, regression, chi-square and F distributions, index numbers, and time series with application to economics. Prerequisite: Economics 466 or permission of instructor.
- 471 (467). **International Economic Problems. (4-0-4) S.** Current international economic problems; balance of payments adjustment; exchange rate policy; international monetary mechanism. Prerequisite: Economics 370 or permission of the instructor.
- 472 (468). **Economic Planning. (4-0-4) S.** A study of development planning by public authorities in market economies as well as command economies. Prerequisite: Economics 478 and/or permission of the instructor.
- 476 (490). **Latin American Economic Development. (4-0-4) S.** Economic conditions and development problems in various Latin American countries. Prerequisite: Economics 256 or permission of the instructor.
- 478 (465). **Economics of Underdeveloped Areas. (4-0-4) F.** An analysis of the economic structures of the underdeveloped areas and the alternative policies open to them for development. Prerequisite: Economics 256 or permission of the instructor.
479. **Middle East Economic Development. (4-0-4) W.** A survey of the economic conditions and problems in the Middle East as a whole and in specific countries. Prerequisite: Economics 256 or permission of the instructor.
480. **Money and Banking. (4-0-4) Su, W.** Money and banking in the modern economy; history and theory of monetary policy. Prerequisite: Economics 256 or the equivalent.
486. **Economics of Public Financial Policy. (4-0-4) F.** The economic implications of government spending, taxing, and borrowing with special attention to state and local governments in Illinois. Not open to majors in economics.

- 491 (470). **Business Cycles. (4-0-4) S.** Fluctuations in economic activity and their causes, methods of forecasting, and policy for control. Prerequisite: Economics 256.
- 493 (453). **Comparative Economic Systems. (4-0-4) W.** A comparative study of the origin, organization, operation, and achievements of the systems of capitalism, socialism, communism, and fascism. Prerequisite: Economics 256 or permission of the instructor.
- 494 (550). **The Soviet Economy. (4-0-4) S.** Prerequisite: Economics 256 or permission of the instructor.
495. **Independent Study. (Arr.-Arr.-4)** Independent study in economics. Designed for the individual student needs at either the undergraduate or graduate level. Prerequisite: Economics 256 and preregistration conference with the Head of the Department of Economics.

GRADUATE COURSES

(Courses numbered 500-549 inclusive may be taken by a senior whose grade point average is 3.0 or higher, with permission of the instructor and the Dean of the Graduate School. Courses numbered 550 and above are open only to graduate students.)

- 553 (556). **Seminar in Public Control of Industry. (4-0-4) F, S.** Selected problems of economic policy arising from the inter-relations of government and business with emphasis on maintaining competitive enterprise. Prerequisite: Economics 353 and/or permission of the instructor.
557. **Problems in Labor Economics. (4-0-4) F.** The theory of wages and employment; the application of the theory to contemporary problems. Prerequisite: Economics 357 and/or permission of the instructor.
558. **Economics of Manpower Resources. (4-0-4) W.** Recent developments in the areas of labor market research and manpower training and utilization. Prerequisite: Economics 357 and/or permission of the instructor.
560. **Advanced Economic Theory: Microeconomics. (4-0-4) W.** A development of value and distribution theories. Detailed analysis of the reactions of consuming units and producing units. Prerequisite: Economics 460 and/or permission of the instructor.
562. **Advanced Economic Analysis: Macroeconomic Theory. (4-0-4) S.** An in depth study of national income analysis; incorporating pre-Keynesian, Keynesian, and post-Keynesian economic theory. Prerequisite: Economics 462 and/or permission of the instructor.
564. **Seminar in Recent History of Economic Thought. (4-0-4) Su, W.** A study to acquaint students with the best minds that exerted themselves on economics as a body of scientifically developed propositions since 1930. Prerequisite: Economics 464 and/or permission of the instructor.
- 570 (520). **Seminar in International Economics. (4-0-4) Su, W.** A study of the pure theory of international trade and finance. Prerequisite: Economics 370 and/or permission of the instructor.
- 578 (565). **Seminar in Economic Development. (4-0-4) S.** A theoretical, historical, and statistical treatment of economic development. Prerequisite: Economics 478 and/or permission of the instructor.
580. **Seminar in Monetary Theory. (4-0-4) F.** Topics relating to the quantity theory of money, the supply of and demand for money, the functioning of monetary and credit controls. Prerequisite: Economics 480 or the equivalent.
581. **Seminar in Financial Institutions. (4-0-4) Su.** The functioning of major private and public financial institutions. Prerequisite: Economics 480 or the equivalent.
585. **Seminar in Public Finance. (4-0-4) F.** A study of the relationship between the public sector and the rest of the economy. Prerequisite: Economics 460 and 462.
595. **Thesis. (Arr.-Arr.-4)**

EDUCATION

Note: Admission to teacher education is prerequisite to education courses numbered 300 or higher, except Education 470, 474, and 495. Exceptions are made for Dietetics majors to enroll in a departmental methods course and for Family Services majors to enroll in Education 490.

UNDERGRADUATE COURSES

123. **Laboratory in Education. (2-0-2)** A laboratory course emphasizing directed observations and participation in classrooms with children of pre-school through junior high school ages. Required of and restricted to freshmen and transfer students in the elementary and junior high school education curricula. Special sections designated for junior high school majors.
232. **Human Growth, Development, and Learning. (4-0-4)** Physical, social, emotional, and intellectual growth and development of children and early adolescents. Prerequisite: Psychology 231. Restricted to students in elementary, junior high, dietetics, recreation, and speech pathology curricula.
250. **The Education of Exceptional Children. (4-0-4)** A study of the special educational needs of students with exceptional characteristics; the methods; and the educational programs designed to meet their needs in the public schools.
311. **Directing Learning in the Junior High School. (4-0-4)** F, W, S. Administration, organization, and function of the junior high school; general methods planning, evaluation, guidance, and classroom management. Prerequisites: Junior standing; Education 232 and admission to teacher education.
312. **Instructional Media in the Junior High School. (4-0-4)** F, W, S. Reading instruction and introduction to educational media and audio-visual equipment. Prerequisites: Junior standing; Education 232 and admission to teacher education.
313. **Teaching Social Studies and Language Arts in the Junior High School. (4-0-4)** W, S. The objectives, methods, materials, and content with an emphasis upon correlation. Prerequisites: Junior standing; Education 311 and admission to teacher education.
314. **Teaching Mathematics and Science in the Junior High School. (4-0-4)** W. The scope, sequence, and interrelationship of the mathematics and science curricula, including methods and materials. Prerequisites: Junior standing; Education 311 and admission to teacher education.
324. **Directing Learning in the Elementary School. (4-0-4)** Organization of instructional programs; planning learning experiences, evaluation, guidance, and classroom management; use of audio-visual equipment. Prerequisite to student teaching. Prerequisites: Junior standing; Education 232 and admission to teacher education. Restricted to elementary and speech correction majors.
326. **Child Development for the Nursery-Kindergarten Teacher. (4-0-4)** 2-8. Some child study techniques and their application. Prerequisites: Junior standing; Education 232 and admission to teacher education.
327. **Teaching Social Studies and Language Arts in the Elementary School. (4-2-4)** Objectives, techniques, and materials of social studies and language arts, excluding reading and children's literature; instruction in handwriting. Prerequisites: Education 324 and admission to teacher education. Simultaneous enrollment with Education 328.
328. **Developmental Reading in the Elementary School. (4-2-4)** Objectives, techniques, and materials of the basal reading program from kindergarten through junior high school; current trends in reading instruction. Prerequisites: Education 324 and admission to teacher education. Simultaneous enrollment with Education 327.
329. **Science in the Elementary School. (2-4-4)** Selection and development of units, demonstrations, and laboratory work. Prerequisites: Eight quarter hours in biological science; Chem. 100, Physics 100; Education 324; admission to teacher education.

331. **Laboratory in Secondary Education. (0-1-1)** Laboratory provides (1) participation experiences with pupils of junior and senior high ages and (2) chance for students to demonstrate growing competency in teaching. This course is taken Pass-Fail. Prerequisites: Junior standing; Psychology 231 and application to teacher education. Must be completed prior to student teaching.
332. **Educational Psychology. (4-0-4)** Individual growth and development with emphasis upon the secondary student, learning theories, measurement and evaluation. Prerequisites: Junior standing; Psychology 231 and admission to teacher education.
333. **The Instructional Task in the Secondary School. (4-0-4)** General methods in planning classroom control, evaluation, guidance; current curricular trends; reading in study skills and instructional materials. Prerequisites: Education 332 and admission to teacher education.
426. **Kindergarten Education. (4-0-4)** F, W, S. Programs, materials, and equipment for nursery school and kindergarten. Prerequisite to teaching practicum in kindergarten. Prerequisites: Education 324 and admission to teacher education; or enrollment in the Home Economics Child Development Option.
440. **Teaching Practicum in Secondary School. (0-3-3)**
- 441, 442, 443, 444. **Teaching Practicum in the Elementary or Secondary School. (Arr.-Arr.-4 each course)** Twelve quarter hours required for elementary majors. Secondary majors refer to page 124. Secondary majors must take 4 quarter hours, preferably 8 quarter hours, in major field. These courses are taken Pass-Fail. Prerequisite: See Admission to Teaching Practicum.
445. **Philosophy and History of Education. (4-0-4)** The philosophical and historical foundations of leading educational theories as they treat human nature, objectives, and processes of education. Prerequisite: Admission to teacher education.

COURSES OPEN TO JUNIORS, SENIORS, AND GRADUATE STUDENTS

460. **Studies in Education. (4-0-4)** Problems in education, student activities, curriculum, guidance, and evaluation. Each student is assigned an individual problem. Prerequisite: Twelve quarter hours in education and psychology.
461. **Studies in Education. (3-0-3)** Problems in education, student activities, curriculum, guidance, and evaluation. Each student is assigned an individual problem. Prerequisite: Twelve quarter hours in education and psychology.
462. **Studies in Education. (2-0-2)** Problems in education, student activities, curriculum, guidance, and evaluation. Each student is assigned an individual problem. Prerequisite: Twelve quarter hours in education and psychology.
463. **Studies in Education. (1-0-1)** Problems in education, student activities, curriculum, guidance, and evaluation. Each student is assigned an individual problem. Prerequisite: Twelve quarter hours in education and psychology.
466. **The Socially and Emotionally Maladjusted Child. (4-0-4)** A study of the nature and characteristics of socially and emotionally maladjusted children including causes, treatment, identification, and educational planning. Prerequisites: Junior standing, Education 232, or an acceptable substitute, or permission of instructor.
467. **Diagnosis of Problems of Socially and Emotionally Maladjusted Children. (4-0-4)** A study of the tests and examinations used to evaluate the emotional and psychological problems of maladjusted children. Prerequisite: Education 466 or permission of the instructor.
468. **Remedial Methods of Teaching the Socially and Emotionally Maladjusted. (4-0-4)** Prerequisites: Education 466 and 467.
470. **Gifted and Creative Students. (4-0-4)** Su, S. A course in identifying gifted and creative children, studying their characteristics, their diversity of talents, and curriculum provisions.

474. **Facilitating Interpersonal Relationships. (4-0-4)** A course to develop skills in interpersonal relationships and personal understanding.
475. **Education in the Inner City School. (4-0-4)** Su, S. A course in methods, materials, characteristics and values basic to the teaching of students who attend the inner city school. Prerequisite: Sixteen quarter hours in education and psychology, or permission of the instructor.
477. **The Junior High School. (4-0-4)** Su, W. Study of historical development, current practices, problems, and trends in the junior high school education. Prerequisite: Education 232 and admission to teacher education.
482. **School-Community Relations. (4-0-4)** Su. Procedures and practices in developing a good school-community relations program. Prerequisite: Sixteen quarter hours in education and psychology, or permission of the department.
485. **School Law. (4-0-4)** Su, W. A course designed to develop an understanding of the basic legal factors related to the school. Prerequisite: Twelve quarter hours in education and psychology or permission of the department.
487. **Introduction to Audio-Visual Education. (4-0-4)** Theory and principles for use of audio-visual materials in teaching. Prerequisite: Twelve quarter hours in education and psychology.
488. **Preparation and Use of Instructional Materials. (4-0-4)** Su, W. Production of locally prepared audio-visual materials using techniques of reproduction by pictorial or graphic means. Materials Fee - \$10.00. Prerequisite: Twelve quarter hours in education and psychology.
490. **Principles and Techniques of Guidance. (4-0-4)** An introductory course, principles and purposes underlying guidance activities. Prerequisite: Twelve quarter hours in education and psychology. Required of students in family services curriculum.
491. **Guidance in the Elementary School. (4-0-4)** Su, F. A study of principles and techniques of guidance services in the elementary school. Prerequisite: Twelve quarter hours in education and psychology.
- 492 (577). **Residence Hall Personnel Work. (4-0-4)** S. A study of the functions, management, and supervising of university residence halls including administrative, business, counseling, and teaching duties. Prerequisite: Twelve quarter hours in education and psychology.
495. **The Mentally Handicapped Child. (4-0-4)** A study of the characteristics of mentally handicapped children. Prerequisites: Education 232 or Psychology 350, or permission of the instructor.
496. **Educational Procedures for Educable Mentally Handicapped Children. (4-0-4)** Class and curriculum organization and introduction to methods and techniques of teaching educable mentally handicapped children. Prerequisite: Education 495 or permission of the instructor.
497. **The Child with Learning Disabilities. (4-0-4)** This course will deal with the nature and characteristics of pupils with learning disabilities. Pupils with epilepsy, aphasia, and brain damage will be studied. Prerequisites: Admission to teacher education. Education 232 or an acceptable substitute.
498. **The Diagnosis of Learning Disabilities. (4-0-4)** The study of the means and methods of diagnosing learning disabilities of children which interfere with their learning processes. Prerequisites: Admission to teacher education. Education 497, or permission of instructor.
499. **Remediation of Learning Disabilities. (4-0-4)** This course deals with the various methods and techniques of remediation of children with learning disabilities. Prescription writing, procedures of teaching; curriculum needs, and classroom management of such children will be studied. Prerequisites: Admission to teacher education. Education 497, 498, or permission of instructor.

GRADUATE COURSES

(Courses numbered 500-549 inclusive may be taken by a senior whose grade point average is 3.0 or higher, with permission of the instructor and the Dean of the Graduate School. Courses numbered 550 and above are open only to graduate students.)

505. **Occupational Cooperative Education. (Arr.-Arr.-4) Su.** A study of part-time, on-the-job education utilizing the resources of the community and the school. Team teaching in Business Education, Education, Health Education, Home Economics, and Industrial Arts. A student may take the course for credit in only one of the departments.
506. **Administration and Supervision of Occupational Education. (Arr.-Arr.-4) Su.** To prepare personnel for administering and supervising occupational education programs. Team teaching in Business Education, Education, Health Education, Home Economics, and Industrial Arts. A student may take the course for credit in only one of the departments.
- 507, 508, 509. **Seminar in Occupational Education. (Arr.-Arr.-4 each course) Su.** Intensive study of contemporary problems, issues, trends and developments in occupational education and technology. Offered in Business Education, Education, Health Education, Home Economics, and Industrial Arts. A student may take each course for credit in only one of the departments.
520. **Television in Education. (4-0-4) Su.** Methods and techniques of television production, direction, and operation covering open and closed-circuit television. (No substitute course may be used.)
521. **Audio-Visual Systems. (4-0-4) S.** Development of Audio-Visual Systems—program learning, random-dial-access, computer-assisted instruction, etc.—in the teaching-learning situation.
522. **Photography in Audio-Visual Education. (4-0-4) Su, F.** Photographic techniques for making materials for classroom instruction. Emphasis upon prints, color slides and large transparencies. Prerequisite: Permission of the instructor.
523. **Organization and Supervision of Audio-Visual Programs. (4-0-4) Su, W.** Problems of organizing and supervising of media in the individual school, district, county and/or university.
527. **Reading Instruction in the Junior and Senior High School. (4-0-4) Su, W.** A systematic study of the objectives, methods, materials, and organization of junior and senior high school reading programs. Prerequisite: Sixteen quarter hours in education and psychology.
528. **Problems in the Teaching of Reading. (4-0-4) Su, F, W.** A study of the types and causes of reading difficulty; methods of diagnosis and remediation for teachers, clinicians, and supervisors. Prerequisite: Sixteen quarter hours in education and psychology, including Education 328.
530. **Advanced Media Design. (4-0-4) F.** Advanced design and creation of media materials for media specialists. Prerequisites: Education 487, 488, or approval of head of department.
531. **Communication Through Instructional Media. (4-0-4) F.** Nature of media in communication and relationship to skills needed for media specialists. Prerequisites: Education 487, 488, or approval of head of department.
540. **Advanced Educational Psychology. (4-0-4) Su, W.** Theories of learning; transfer and functional learning; creative thinking and problem solving; "teaching machines" and other self-instructional devices. Prerequisite: Twelve quarter hours in education and psychology.
- 541, 542. **Educable Mentally Handicapped Practicum. (4-0-4 each course) Su.** Supervised practicum with pupils who are designated as educable mentally handicapped or having learning difficulties. Prerequisite: Education 496.
543. **Measurement and Evaluation. (4-0-4) Su.** Nature and use of standardized and teacher-made tests. Selection, administration, and use. Prerequisite: Eight quarter hours in human growth and development, and/or psychology.

544. **Educational Statistics. (4-0-4) Su, W.** Fundamentals of statistics and their application. Prerequisite: Twelve quarter hours in education and psychology.
549. **Special Educational Problems. (Arr.-Arr.1 to 4)** Provides the student an opportunity for investigation and analysis of elementary or secondary school problems of a significant nature. Prerequisite: Permission of the instructor.
550. **Principles of Curriculum Development. (4-0-4)** Basic determinants of curriculum; factors influencing curricular design; current trends, including experimental programs and practices. Credit applicable to Group I of the requirements for the degree M.S. in Ed.
551. **Social Foundations of Education. (4-0-4)** The school in society; effects of cultural patterns, social classes, community organizations, and some social problems. Credit applicable to Group I of the requirements for the degree M.S. in Ed.
552. **Understanding the Individual. (4-0-4)** Personality development and concepts of the self; need satisfaction and perception of threat; problems of adjustment and determinants of personality. Prerequisite: Twelve quarter hours in education and psychology. Credit applicable to Group I of the requirements for the degree M.S. in Ed.
553. **Philosophy of Education. (4-0-4) Su, W.** A study of some modern educational ideologies and of their relations with ethics, politics, religion, and art. Credit applicable to Group I of the requirements for the degree M.S. in Ed.
554. **History of Educational Thought. (4-0-4) Su, S.** Important educational events and ideas as these developed in Western civilization; the historical perspective for evaluating present controversies and trends. Credit applicable to Group I of the requirements for the degree M.S. in Ed.
555. **Comparative Education. (4-0-4) Su.** Selected educational systems of developed and emerging nations in their cultural settings.
557. **Early Childhood Education. (4-0-4) Su, F.** Consideration given to each segment of the learning continuum (ages 3½ to 8) including curriculum design, articulation, evaluation, and administration. Prerequisite: Teaching experience and permission of the instructor.
558. **Child Study for the Elementary School Teacher. (4-0-4) Su, W.** Factors influencing behavior of the elementary school child. Techniques to secure and use data to improve classroom teaching. Prerequisites: Education 232 or equivalent. Sixteen quarter hours in education and child psychology. Limited to experienced teachers working with children.
559. **Seminar in Nursery-Kindergarten Education. (4-0-4) Su, S.** An analysis of curriculum issues and problems in nursery-kindergarten education. Students will select individual problems to study. Prerequisite: Teaching experience and permission of the instructor.
560. **Introduction to Research in Education. (4-0-4)** Gives experiences in defining problems and in using research techniques in writing, interpreting, and evaluating research. Prerequisite: Sixteen quarter hours in education and psychology.
561. **Advanced Developmental Reading. (4-0-4) Su, F, S.** A study of the nature of reading instruction in the elementary school; approaches, goals, materials, techniques, and evaluation procedures. Prerequisite: Education 328 or equivalent.
562. **Remedial Reading Practicum. (Arr.-Arr.-4) Su, S.** Supervised practice in diagnosing, treating, and reporting on cases of reading disability. Prerequisite: Education 528 and permission of instructor. Students may enroll a second time for credit.
563. **Supervision and Curriculum in Reading. (4-0-4) Su, W.** A study of the total school program for reading instruction; an analysis of the role of the reading supervisor or consultant. Prerequisite: Eight quarter hours in reading instruction.
564. **Teaching and Supervision of Social Studies in Elementary Schools. (4-0-4)** A study of the objectives, content, materials, and techniques used in organizing, supervising, and improving the social studies program.

565. **Language Arts in the Elementary School. (4-0-4)** Su, F, W. A critical analysis of language arts instruction with emphasis on the organization of the program, content, materials, and procedures. Prerequisite: Twelve quarter hours in education and psychology.
566. **The Science Curriculum in the Elementary School. (4-0-4)** Su, F. Scope and sequence of the elementary science curriculum; new experimental curricula; selection of materials and equipment. Prerequisites: Eight quarter hours of biological science, eight quarter hours of physical science, and Education 329 or permission of the instructor and the Dean of the Graduate School.
567. **Advanced Laboratory in Elementary Education. (Arr.-Arr.-4)** Su. A study of curriculum problems, trends, and developments using observations and demonstrations and analysis of instructional media and pertinent research. Prerequisite: Eight quarter hours in graduate courses in elementary education. Students may enroll a second time for credit.
568. **Guiding Student Teaching. (4-0-4)** Su, F. Aspects of teacher education, particularly professional laboratory experiences. Limited to persons engaged in student teaching programs.
569. **Seminar in Elementary Science Education. (4-0-4)** Su, S. An analysis of problems and trends in elementary and junior high science education. Student selection of problems with approval of the instructor. Prerequisite: Education 566 or permission of the instructor.
570. **Psycho-Social Development in Childhood. (4-0-4)** S. A discussion of psychological and cultural forces which shape the behavior patterns of the growing child. Prerequisite: Sixteen quarter hours in education and psychology.
571. **Psycho-Social Development of the Adolescent and Young Adult. (4-0-4)** F. A discussion of psychological and cultural forces which shape the behavior patterns of the growing child. Prerequisite: Sixteen quarter hours in education and psychology.
572. **Measurement Applied to Guidance. (4-0-4)** Su, F, W. A Study of the selection, administration, scoring, and interpretation of standardized tests and other measuring techniques used in guidance programs. Prerequisite: Sixteen quarter hours in education and psychology.
573. **Play Therapy. (4-0-4)** Su, S. The importance of play in education; discussion of theories and values of play; using play as therapeutic treatment. Prerequisite: Education 574.
574. **Personality Dynamics. (4-0-4)** Su, F, S. A study of the nature of personality and of various theories of personality with attention given to techniques of personality evaluation. Prerequisite: Sixteen quarter hours of education and psychology.
576. **Student Personnel Work in Higher Education. (4-0-4)** W. A study of personnel functions in higher education including admissions, discipline, student activities, housing, scholarship programs. Prerequisite: Twelve quarter hours in education and psychology.
578. **Theories of Aptitudes and Abilities. (4-0-4)** Su. A study of the nature of human abilities. Examination of individual differences and traits. Theories of vocational behavior. Prerequisite: Education 592 or permission of department.
579. **Individual Study in Education. (Arr.-Arr.-2 or 4)** Intended to permit a student to pursue more intensively various aspects of the area of his special interest. Prerequisite: Permission of the department head.
- 580 (480). **School Organization and Administration. (4-0-4)** Su, F, S. Educational administration in social and historical perspective; authentication and application of principles of administration. Prerequisite: Twelve quarter hours in education and psychology.
581. **School Supervision-A Group Process. (4-0-4)** Su, F, S. Origin and development of the supervisory function. Prerequisite: Education 550.

583. **Administration and Supervision of the Elementary School. (4-0-4)** Su, S. Develops interrelationship of pupils, staff and patrons in the elementary school. Prerequisites: Admission to candidacy for the degree, M.S. in Ed., or enrollment in the Ed.S. program.
584. **Administration and Supervision of the Secondary School. (4-0-4)** Su, S. Develops an understanding of the role of the principal of the secondary school. Prerequisite: Admission to candidacy for the degree, M.S. in Ed., or enrollment in the Ed.S. Program.
585. **School Plant Planning. (4-0-4)** W. Relates school plants to the instructional program and community resources. Prerequisite: Education 580 or equivalent.
586. **School Finance. (4-0-4)** S. A study of the support of public school and the expenditures of school funds. Prerequisite: Education 580 or equivalent.
587. **Personnel Administration: Teacher-Administrator Relationships. (4-0-4)** F. Principles and practices of personnel administration in educational institutions. Prerequisite: Education 580 or equivalent.
588. **School Business Administration. (4-0-4)** W. A study of the principles of financial management as they relate to the administration of funds in public education at the local level. Prerequisite: Education 586 or equivalent.
- 589 (489). **Seminar in Audio-Visual Education. (4-0-4)** Su, W. Special study on problems of production, administration and utilization of audio-visual materials in schools. Prerequisite: Education 487, Education 488 or equivalent.
590. **Current Practices and Problems in Counseling. (4-0-4)** Su, W, S. A course in theory and practices of counseling with emphasis upon the duties of the school counselor. Prerequisite: Education 490 or 491.
591. **Organization and Administration of Guidance and Personnel Services. (4-0-4)** Su, S. Principles and practices in organization and administration of guidance programs, public relations, integration of guidance services and curriculum. Prerequisite: Education 490 or 491.
592. **Occupational, Educational, Personal, and Social Information. (4-0-4)** Su, W. Sources, evaluation, and use of occupational, educational, personal, and social information. Job requirements and training facilities. Prerequisite: Education 490 or 491.
593. **Counseling Practicum. (4-0-4)** Supervised practice in counseling individual students. Practice provided at the level of the graduate's primary interest. Prerequisites: Education 590 and permission of the department.
594. **Principles and Techniques of Group Guidance. (4-0-4)** Su, S. A study of the principles and their application in the area of group guidance including techniques of group discussion, sociometrics, and role-playing. Prerequisite: Education 590.
595. **Thesis. (Arr.-Arr.-4)**
596. **The Junior College Movement. (4-0-4)** Su, F. The junior college in the United States with attention to problems of philosophy, curriculum, and operation of junior colleges in Illinois. Prerequisite: Sixteen quarter hours in education and psychology or permission of the instructor.
597. **Seminar in Guidance. (4-0-4)** Su, W. Discussion of current problems and trends in guidance. Critical examination and evaluation of current literature in the field. Prerequisite: Permission of the department.
598. **Practicum in Student Personnel Work in Higher Education. (Arr.-Arr.-4 or 8)** S. Supervised practice in student personnel work according to the student's background and preferences. Prerequisites: Education 576 and permission of the department.
600. **Problems in School Administration. (4-0-4)** Su, W. An advanced seminar in problems of significance to educational administration. Prerequisites: At least twelve quarter hours in administration and supervision plus completion of Group I courses.

- 601, 602. The Field Experience in Administration. (Arr.-Arr.-4 each course)** The field experience is planned by the student's committee and the supervising administrator. Prerequisite: Admission to candidacy for the degree Ed.S. and approval of the department.
- 603. Seminar: Theory and Research in Educational Administration. (4-0-4) Su.** Development of theories of administration in general and of educational administration in particular. Prerequisites: Education 560 and Education 580 or equivalent plus the consent of the instructor.
- 604. Seminar: Interdisciplinary Approach to Educational Administration. (Arr.-Arr.-4) F.** Examines the contributions of the behavioral science and the humanities to the study and practice of educational administration. Provides an opportunity to integrate material derived from related area courses. Prerequisites: Admission to Ed.S. Program and completion of at least 12 quarter hours in related academic disciplines. Permission of the instructor.
- 605. Seminar in Instructional Supervision. (4-0-4)** A course designed for the specialist who will have direct or general responsibility for the supervision of the instructional program or a selected segment of it. Provides experience in actual supervisory program development. Prerequisites: Education 581 or equivalent, employment as a supervisor or permission of the instructor.
- 607. Seminar: School Operations and the Law. (4-0-4)** A course designed to advance the school administrator's understanding of the major legal factors which impinge upon his functions. Emphasis is upon current trends as revealed in recent case law and new legislation. Prerequisites: Education 485, an M.S. in Ed. degree, and permission of the instructor.
- 609. Administration in Higher Education. (4-0-4) Su, W.** A study of the scope, nature, and function of administration in higher education. Prerequisites: Equivalent of the master's degree and/or permission of the department.
- 615. Seminar in College and University Teaching. (4-0-4)** This course is designed to develop and improve skill in college and university teaching. The emphasis will be upon developing techniques of teaching, psychology of learning, instructional media, and evaluation.
- 620. Curriculum in Higher Education. (Arr.-Arr.-4)** A unified study of college and university curricula.
- 690. Field Study in Guidance. (Internship.) (Arr.-Arr.-4 or 8) F, W, S.** Supervised experience in all services normally considered a part of the guidance program. Prerequisite: Education 593 and approval of the department.

ENGLISH

Note: A student who enters the University with a deficiency in the basic skills in English-reading, writing, spelling, elements of grammar and good usage-may be required to take work in remedial English in addition to the required freshman composition courses.

Note: Courses in English are grouped for curriculum selection as follows (and the Groups are further indicated by Roman numerals at the end of the course description):

- I. Language: 221, 320, 321, 364, 460, 461
- II. Composition and Literary Criticism: 224, 315, 316, 317, 355, 356
- III. World Literature: 215, 275, 325, 361, 362, 363, 396
- IV. Medieval Period: 245, 465, 480, 481
- V. Renaissance: 336, 337, 338, 362, 453, 470, 490

- VI. 17th and 18th Centuries: 246, 453, 455, 456, 470, 475
- VII. 19th Century: 247, 251, 260, 261, 262, 363, 379, 454, 457, 471, 472
- VIII. 20th Century: 247, 252, 255, 263, 270, 363, 370, 380, 381, 382
- IX. Fiction and Essay: 260, 261, 262, 263, 359, 360, 453, 455, 456, 457
- X. Poetry: 310, 311, 336, 337, 338, 379, 470, 471, 472, 475, 480, 481
- XI. Drama: 270, 325, 336, 337, 338, 380, 381, 382, 490
- XII. American Literature: 250, 251, 252, 255, 262, 310, 333, 360, 379, 398, 452, 454

UNDERGRADUATE COURSES

- 120. **Composition.** (3-1-4) A basic course in theme writing, designed to develop facility in matters of sentence structure, paragraph development, and organization.
- 130. **The Types of Literature.** (4-0-4) An introduction to the major genres (poetry, fiction, drama). Frequent analytical papers required. Prerequisite: English 120. Note: English 130 does not count toward fulfilling the humanities general requirement for any degree. Note on prerequisites for courses in English: Students may not enroll in English courses numbered above 130 until they have completed English 130, or, in the case of transfer students, until they have satisfied the all-university English requirement.
- 201. **Advanced Reading and Writing.** (3-1-4) The structural problems of writing longer essays, with critical approaches to literature. One or more research papers required.
- 215. **Mythology.** (4-0-4) F. The myths, chiefly Greek and Roman, most often retold, interpreted, or alluded to by the writers of Western Europe and America. (III)
- 221. **Modern Grammars.** (4-0-4) The origins, rationale, and methods of such current grammars as traditional, structural, generative-transformational, and stratificational. (I)
- 224. **Introduction to Creative Writing.** (4-0-4) F. Practice in writing poems, short stories, or plays. Intensive criticism in class of the students' writing. (II) Prerequisite: English 201 or its equivalent.
- 245. **English Literature I.** (4-0-4) Su, F, W. Prose and poetry (including drama) from Beowulf to Bunyan. (IV)
- 246. **English Literature II.** (4-0-4) Prose and Poetry (including drama) from Dryden to DeQuincey. (VI)
- 247. **English Literature III.** (4-0-4) Su, W, S. Prose and poetry (including drama) from Macaulay to the present. (VII, VIII)
- 250. **American Literature I.** (4-0-4) From Colonial times through the Transcendental Movement, with emphasis usually on Edward Taylor, Hawthorne, Poe, Emerson, Thoreau. (XII)
- 251. **American Literature II.** (4-0-4) From the close of the Transcendental Movement to 1900, with emphasis usually on Melville, Whitman, Dickinson, Mark Twain, James. (VII, XII)
- 252. **American Literature III.** (4-0-4) From 1900 to the present, with emphasis usually on Robinson, Frost, Eliot, Faulkner, Hemingway. (VIII, XII)
- 255. **Black Literature.** (4-0-4) W. The major writers of Black American literature, with emphasis on such authors as Hughes, Brooks, Toomer, Wright, Ellison, Bladwin, and Jones. (VIII, XII)
- 260. **English Novel from 1800 to 1850.** (4-0-4) Su, F. Austen, Thackeray, Dickens, the Brontes, and others. (VII, IX)
- 261. **English Novel from 1850 to 1900.** (4-0-4) W. George Eliot, Hardy, Meredith, Stevenson, Wilkie Collins, and others. (VII, IX)

262. **The American Novel to 1900. (4-0-4)** Su, W. Hawthorne, Melville, Mark Twain, James, and others. (VII, IX, XII)
263. **The Twentieth Century Novel: English and American. (4-0-4)** Su, S. Such major figures as Conrad, Joyce, Lawrence, Woolf, Dreiser, Ellison, Fitzgerald. Hemingway, Steinbeck. (VIII, IX)
270. **Modern Drama. (4-0-4)** Su. From Ibsen to the present. (VIII, XI)
275. **Literature of the Old Testament (4-0-4)** S. Types of literature in the Old Testament. (III)
310. **Studies in Major American Poets. (4-0-4)** F. Studies in depth, with only one or two poets examined during any one quarter. Topics for Fall 1971: Sandburg and Marianne Moore. (VIII, X, XII) With permission of the department head and approval of the Dean, College of Letters and Science, this course may be taken twice.
311. **Studies in Major British Poets. (4-0-4)** Su, W, S. Studies in depth, with only one or two poets examined during any one quarter. Topics for 1971-72: Su '71, Religious Lyrics of Donne and Hopkins (X); Winter, The Metaphysical Poets (VI, X); Spring, Current British Poets (VIII, X) With permission of the department head and approval of the Dean, College of Letters and Science, this course may be taken twice.
315. **Literary Criticism, Aristotle to Johnson. (4-0-4)** (Omitted 1971-72.) Selections from the critical writings of Aristotle, Plato, Horace, Longinus, Sidney, Daniel, Jonson, Corneille, Milton, Dryden, Pope, Johnson. (II)
316. **Literary Criticism of the Nineteenth Century. (4-0-4)** Su. Selections from the critical writings of Hazlitt, Wordsworth, Coleridge, Keats, Shelley, Poe, Arnold, Pater, and Wilde. (II)
317. **Modern Literary Criticism (4-0-4)** (Omitted 1971-72.) Selections from the critical writings of Henry James, T. S. Eliot, Ransom, Mencken, Bergson, Richards, Croce, Empson, Reed, and Rilke. (II)
320. **The Structure of the English Language. (4-0-4)** The phonology, morphology, and syntax of Modern English. (I)
321. **The History of the English Language. (4-0-4)** W. The evolution of the sounds, vocabulary, and syntax of English, with particular attention to the various dialects of Old, Middle, and Modern English. (I) Prerequisite: English 320.
322. **Literature in the Grades. (4-0-4)** Emphasizes wide acquaintance with the great bodies of world literature-myth, legend, etc.-and with the best poetry for children. (No Group) Enrollment restricted to students in the elementary education curriculum.
325. **Greek Drama. (4-0-4)** Su, S. Aeschylus, Sophocles, Euripides, Aristophanes. (III, XI)
333. **Colonial American Literature. (4-0-4)** Su, F, S. From the beginning through the Revolutionary period. (XII)
336. **Shakespeare. (4-0-4)** F. The earlier plays, such as Richard II, Romeo and Juliet, Julius Caesar, Merchant of Venice, and one later play, Othello. (V, X, XI)
337. **Shakespeare. (4-0-4)** Su, W. I Henry IV, II Henry IV, Henry V, As You Like It, Measure for Measure, Hamlet, Macbeth, and The Winter's Tale. (V, X, XI)
338. **Shakespeare. (4-0-4)** S. Twelfth Night, Troilus and Cressida, King Lear, Antony and Cleopatra, Coriolanus, Cymbeline, The Tempest. (V, X, XI)
340. **Methods of Teaching English in the High School. (4-0-4)** Problems, materials, and methods for teaching English in the high school. (No Group) Prerequisite: Education 333.
355. **Advanced Rhetoric. (4-0-4)** Su, W. Advanced application of the principles of expository writings. (II) Prerequisite: English 201 or its equivalent.

356. **Advanced Creative Writing. (4-0-4) S.** Experience in writing poems, short stories, plays. (II) Prerequisite: English 224 or permission of the instructor. May be taken twice with permission of department head and Dean, College of Letters and Science.
359. **Studies in Major British Novelists. (4-0-4) Su, S.** Studies in depth, with only one or two novelists examined during any one quarter. Topics for 1971-72: Su '71, Austen and Woolf (IX); Spring, The Brontës (VII, IX) With permission of the department head and approval of the Dean, College of Letters and Science, this course may be taken twice.
360. **Studies in Major American Novelists. (4-0-4) F, W.** Studies in depth, with only one or two novelists examined during any one quarter. Topics for 1971-72: Fall, Faulkner (VIII, IX, XII); Winter, Henry James (VII, IX, XII) With permission of the department head and approval of the Dean, College of Letters and Science, this course may be taken twice.
361. **World Literature: Ancient and Medieval. (4-0-4) Su, F.** Reading in translation of representative masterpieces of the ancient world and of the middle ages. (III) English 361 is not a prerequisite for English 362 or 363, but it is recommended that the courses be taken in sequence.
362. **World Literature: Renaissance to 1850. (4-0-4) W.** Emphasis on generally recognized masters: Rabelais, Montaigne, Shakespeare, Goethe, Molière, Racine, Cervantes, and others. (III, V)
363. **World Literature: Since 1850. (4-0-4) S.** The masterpieces of realism, naturalism, symbolism: Flaubert, Dostoevsky, Tolstoy, Ibsen, Mann, Proust, Faulkner, and others. (III, VII, VIII)
364. **Introduction to the General Nature of Language and of English. (4-0-4) S.** Theories of the nature of language; modern American English in its cultural setting. Concentration topics, e.g., psycho-linguistics, chosen by instructor. (I) Prerequisite: English 221 or 320.
370. **Twentieth Century British Literature. (4-0-4) Su, W.** Representative works (exclusive of the novel), with primary attention to such figures as Conrad, Eliot, Joyce, Lawrence, Yeats. (VIII)
379. **Nineteenth Century American Poetry. (4-0-4) (Omitted 1971-72.)** Major trends and various genres in nineteenth-century American poetry. (VII, X, XII)
380. **Theory and Practice of Modern Drama I. (2-4-4) F.** Ibsen, Shaw, Chekhov, and Strindberg. Taught jointly by the Departments of English and Theatre Arts. Literary analysis, acting, and directing. (VIII, XI)
381. **Theory and Practice of Modern Drama II. (2-4-4) W.** The best of O'Neill, Tennessee Williams, Arthur Miller, and Thornton Wilder. (VIII, XI)
382. **Theory and Practice of Modern Drama III. (2-4-4) S.** The "Absurdist". Beckett, Ionesco, Albee, Pinter, Genet. (VIII, XI)
396. **Special Studies in Comparative Literature. (4-0-4) F.** Special topics not ordinarily treated in standard courses. Topic for Fall, Dostoevsky and Chekhov (III, VII, IX) With permission of the department head and approval of the Dean, College of Letters and Science, this course may be taken twice.
397. **Special Studies in British Literature. (4-0-4) Su, W.** Special topics not ordinarily treated in standard courses. Topic for 1971-72: Su '71, Comedy of Manners (XI); Winter, The "Angry" Dramatists, Since 1950 (VIII, XI) With permission of the department head and approval of the Dean, College of Letters and Science, this course may be taken twice.
398. **Special Studies in American Literature. (4-0-4) S.** Special topics not ordinarily treated in standard courses. Topic for Spring, The Southern Short Story (VIII, IX, XII) With permission of the department head and approval of the Dean, College of Letters and Science, this course may be taken twice.

399. **Summer Study in Ireland. (0-0-9) Su.** Independent research in English. Six weeks of residence in the Republic of Ireland will be required. (Group varies) Open to juniors and seniors.

COURSES OPEN TO JUNIORS, SENIORS, AND GRADUATE STUDENTS

452. **Studies in Black Literature. (4-0-4) Su, S.** A study in depth of various genres, movements, periods, and major writers in black literature. Only one genre, movement, or period, or only one or two major writers, will be studied during any quarter. (XII) Prerequisite: English 255 or its equivalent or permission of the instructor. May be taken twice for credit with permission of the department head and the Dean, College of Letters and Science.
453. **Sixteenth and Seventeenth Century Prose. (4-0-4) W.** Such English authors as Lyly, Sidney, Bacon, Bunyan, and Milton; the times that influenced their prose. (V, VI, IX)
454. **The Transcendental Movement. (4-0-4) F.** The New England Transcendental movement, with emphasis on Emerson and Thoreau. (VII, XII)
455. **The Age of Swift. (4-0-4) Su.** The prose and poetry of the British neo-classical period centered around Jonathan Swift. (VI, IX)
456. **The Age of Johnson. (4-0-4) S.** Major eighteenth-century British authors during the times of Samuel Johnson. (VI, IX)
457. **Nineteenth Century English Prose. (4-0-4) (Omitted 1971-72.)** The prose (exclusive of fiction) of Arnold, Carlyle, Coleridge, Hazlitt, Huxley, Lamb, Mill, Pater, Ruskin, and others. (VII, IX)
459. **Methods of Teaching Children's Literature. (4-0-4) Su.** For elementary and English majors, designed to increase their knowledge of children's literature and to suggest methods for teaching literature in grades one through six. (No Group)
460. **Transformational Grammar. (4-0-4) S.** The rules of transformational grammar and their application to the analysis of English sentences. (I)
461. **Geographical Linguistics. (4-0-4) (Omitted 1971-72.)** Dialects in English from 1875 to the present, regional and social; the dialects of American English. (I)
465. **Middle English Literature. (4-0-4) F.** Representative genres of non-Chaucerian English literature of the Middle Ages, in translation. (IV)
470. **English Poetry. (4-0-4) Su.** From 1550 to 1700, exclusive of Milton. (V, VI, X)
471. **Poetry of the Romantic Period. (4-0-4) W.** Precursors of Romanticism and Blake, Burns, Wordsworth, Coleridge, Byron, Shelley, Keats. (VII, X)
472. **Poetry of the Victorian Period. (4-0-4) S.** Tennyson, Browning, and others. (VII, X)
475. **Milton. (4-0-4) Su, S.** The life, prose, and poetry of John Milton, and his relationship to the literary trends of his century. (VI, X)
480. **Chaucer. (4-0-4) W.** Canterbury Tales; the London dialect out of which modern English grew; the life of the times. (IV, X)
481. **Chaucer. (4-0-4) (Omitted 1971-72.)** Troilus and Criseyde and such other works as The House of Fame, The Parliament of Fowls, and The Legend of Good Women. (IV, X)
490. **Elizabethan Drama. (4-0-4) Su, F.** English drama of the Renaissance to 1603, including selected plays of Shakespeare. (V, XI)

GRADUATE COURSES

(Courses numbered 500-549 inclusive may be taken by a senior whose grade point average is 3.0 or higher, with permission of the instructor and the Dean of the Graduate School. Courses numbered 550 and above are open only to graduate students.)

500. **Literary Criticism. (4-0-4) (Omitted 1971-72.)** The basic principles and theories for evaluating the standard literary forms-epic, drama, lyric, and prose narrative.
510. **Studies in Medieval Literature. (4-0-4) (Omitted 1971-72.)** Representative non-Chaucerian literature of the English Middle Ages, with emphasis varying from genres to figures.
520. **Studies in Renaissance Poetry. (4-0-4) W.** A single British poet or group of poets, in relation to the dominant ideals and attitudes of the Renaissance.
525. **Studies in Jacobean and Caroline Drama. (4-0-4) Su.** Major British dramatists, including some reference to Shakespeare, from 1603 to the closing of the theaters in 1642.
526. **Studies in Restoration and Eighteenth Century Drama. (4-0-4) W.** Major British dramatists from 1660 to Sheridan.
535. **English Fiction, from Jane Austen to Thomas Hardy. (4-0-4) F.** The novel in England with emphasis on one or two different novelists each quarter.
540. **Studies in American Poetry. (4-0-4) F.** Analysis of a movement or genre in American poetry, varying from quarter to quarter.
541. **Studies in American Prose. (4-0-4) S.** Analysis of a movement in American prose, varying from quarter to quarter.
545. **Descriptive Linguistics. (4-0-4) F.** Descriptive linguistics from the 1930's to the present, with consideration of structural, transformational, and other grammars.
560. **Old English. (4-0-4) F.** Old English grammar and selected readings from the literature.
561. **Beowulf. (4-0-4) W.** The Old English classic in the original language. Prerequisite: English 560 or the permission of the instructor.
565. **Studies in Chaucer. (4-0-4) (Omitted 1971-72.)** Selected works of Chaucer and, occasionally, of his contemporaries.
575. **Studies in Shakespeare. (4-0-4) S.** Topics will vary from quarter to quarter.
577. **Studies in Seventeenth Century Prose and Poetry. (4-0-4) Su.** Single or related British authors from Donne to Dryden, excluding Milton and the drama.
579. **Studies in Eighteenth Century Prose and Poetry. (4-0-4). S.** Topics will vary from quarter to quarter.
582. **Studies in Romantic Poetry. (4-0-4) (Omitted 1971-72.)** Intensive study of one British poet, varying from quarter to quarter, against the background of Romanticism.
585. **Studies in Later Nineteenth Century Prose and Poetry. (4-0-4) Su.** Emphasis more frequently on themes than on figures or genres, with occasional reference to American or European counterparts.
586. **Independent Study. (4-0-4)** Advanced work on a topic selected by the student, subject to the approval of his advisor.
590. **Colonial American Literature. (4-0-4) Su, W.** Pre-revolutionary literature, with special attention to the seventeenth-century New England Puritans.
592. **Studies in Twentieth Century Fiction (4-0-4) S.** One or two writers, British and American, varying from quarter to quarter.
593. **Studies in Twentieth Century Drama. (4-0-4) F.** A study of one or two dramatists, British and/or American, varying from quarter to quarter.
594. **Studies in Twentieth Century Poetry. (4-0-4) Su, W.** One or two poets, British and American, varying from quarter to quarter.
595. **Thesis. (0-0-4 or 8)**

Foreign Languages

Intermediate and upper division modern language courses are conducted in the language.

Placement in the foreign language courses of students who wish to continue a language begun in high school is indicated by the following table. Permission of the department is necessary for initial enrollment beyond the courses in Column III.

I Number of high school units in the language.	II Course in (or beyond) which the student may enroll for college credit.	III Course in which initial enrollment is recommended if grades in high school courses in the language average B or higher.
1 year	The student will take a placement examination given by the Foreign Language Department which will determine the course which he may enter for credit.	
2 years	French 132	French 230
	German 132	German 233
	Latin 122	Latin 220
	Russian 142	Russian 250
3 years	Spanish 132	Spanish 230
	French 230	French 231
	German 233	German 234
	Latin 220	Latin 221
	Russian 250	Russian 251
4 years	Spanish 230	Spanish 231
	French 232	
	German 235	
	Latin 222	a course numbered above 300
	Russian 252	
	Spanish 232	

A student who enrolls in a course earlier in sequence than that indicated in Column II will not receive credit toward graduation, but may have the course reported to the State Teacher Certification Board in partial fulfillment of the minimum requirement for certification to teach the language.

A student may apply for proficiency examinations for college credit in courses listed on the appropriate line in Column III or more advanced courses, but not in courses earlier in sequence.

The following courses are approved to apply toward the literature portion of the humanities requirement:

Classics 460, 461

French 350, 351, 352, 410, 411, 412, 456, 457, 458, 510, 511, 512

German 353, 355, 362, 363, 411, 412, 453, 454, 511, 512

Latin 320, 321, 322, 330, 331, 433, 435, 451, 452, 511, 512

Russian 360, 361, 363

Spanish 321, 322, 323, 325, 326, 411, 456, 457, 458, 510, 511, 512

Note: A student wishing to count foreign language as a humanities requirement must complete the third course of the first year's sequence in order to use the credit toward meeting that requirement. A student may take the first or second course of the three-course sequence in the first year of a foreign language and receive elective credit toward graduation. This applies to:

French 130, 131, 132

German 130, 131, 132

Latin 120, 121, 122

Russian 140, 141, 142

Spanish 130, 131, 132

CLASSICS

- 460 (550.) Greek Literature in English Translation. (4-0-4) F.** A survey course devoted to the reading and discussion of the masterpieces of classical Greek literature from Homer to Demosthenes.
- 461. (551.) Latin Literature in English Translation. (4-0-4) W.** A survey course devoted to the reading and discussion of the masterpieces of classical Latin literature from Plautus to Suetonius.

FRENCH**UNDERGRADUATE COURSES**

- 130, 131, 132. Elementary French. (4-0-4 each course)** 131-W, S; 132-Su, F, S. Principles of grammar; phonetics; pronunciation and drill in rhythm and intonation; reading of simple French texts; conversation.
- 230, 231, 232. Second Year French. (4-0-4 each course)** 230-Su, F, W; 231-Su, W, S; 232-Su, F, S. Review of grammar; exercises in composition; conversation; readings. Prerequisite: French 230, two years of high school French or one year college French; for French 232, the prerequisite is French 231.
- 330 Linguistics. (4-0-4) F.** Systematic drills are used to build the student's knowledge of the structure of French and to eliminate errors caused by the patterns of the student's native English. Prerequisite: Two years of college French or permission of the department.
- 331. French Grammar and Composition. (4-0-4) W.** Review and consolidation of principles of grammar; their application in writing, language drills, translations, compositions. Prerequisite: Two years of college French or permission of the department.
- 332. Aspects of French Civilization. (4-0-4) S.** A study of some of the outstanding moments and figures in the history of French culture and civilization. Prerequisite: Two years of college French or permission of the department.
- 340. Methods of Teaching French. (4-0-4) W.** Prerequisite: Admission to teacher education and junior standing.
- 341. Methods of Teaching French. (2-0-2) S.** A course designed for French minors. Prerequisite: Admission to teacher education.
- 350. Survey of French Literature from the Middle Ages to the Seventeenth Century. (4-0-4) F.** Prerequisite: Two years of college French or permission of the department.
- 351. Survey of French Literature of the Seventeenth Century. (4-0-4) W.** Prerequisite: Two years of college French or permission of the department.
- 352. Survey of French Literature of the Eighteenth and Nineteenth Centuries. (4-0-4) S.** Prerequisite: Two years of college French or permission of department.
- 410. Introduction to the French Novel I. (4-0-4) F.** A study of selected novels of Mme. de LaFayette, Prevost, Constant, George Sand. Prerequisite: French 350, 351, 352 or permission of the department.
- 411. Introduction to the French Novel II. (4-0-4) W.** A study of selected novels of Victor Hugo, Balzac, Stendhal, Flaubert. Prerequisite: French 350, 351, 352 or permission of the department.
- 412. Introduction to the French Novel III. (4-0-4) S.** A study of selected novels of Zola, Proust, Gide, Camus. Prerequisite: French 350, 351, 352 or permission of the department.
- 415. Advanced Grammar. (4-0-4) Su.** Grammatical analysis at an advanced level. Prerequisite: French 331 or permission of department head.

COURSES OPEN TO JUNIORS, SENIORS, AND GRADUATE STUDENTS

456. French Drama of the Seventeenth Century. (4-0-4) (Omitted 1971-72.)
457. French Drama of the Eighteenth and Nineteenth Centuries. (4-0-4) (Omitted 1971-72.)
458. French Poetry. (4-0-4) (Omitted 1971-72.)

GRADUATE COURSES

(Courses numbered 500-549 inclusive may be taken by a senior whose grade point average is 3.0 or higher, with permission of the instructor and the Dean of the Graduate School. Courses numbered 550 and above are open only to graduate students.)

510. French Novel I: Before Balzac. (4-0-4) (Omitted 1971-72.) A study of selected novels of Mme. de La Fayette, Le Sage, Prevost, Constant, Dumas, Hugo, George Sand.
511. French Novel II: Balzac to Proust. (4-0-4) (Omitted 1971-72.) A study of selected novels of Balzac, Stendhal, Flaubert and Zola.
512. French Novel III: Proust to the Present. (4-0-4) (Omitted 1971-72.) A study of selected novels of Proust, Alain Fournier, Gide, Mauriac, and Camus.
515. Advanced Phonetics and Diction. (4-0-4) (Omitted 1971-72.) Theory and practice.
516. Syntax and Stylistics. (4-0-4) S. A study of French syntax and stylistics; intensive practice in writing.
517. Contemporary French Civilization. (4-0-4) (Omitted 1971-72.) A study of the contemporary scene in France.
560. Classroom and Laboratory Techniques for Teaching French. (4-0-4) Su. Particularly for students preparing for junior college or college teaching; adaptable to experienced teachers at other levels.
565. French Literature of the Renaissance. (4-0-4) S. Rabelais, DuBellay and the doctrine of the Pleiade, Ronsard and Montaigne.
567. French Classicism I. (4-0-4) Su. Representative authors of the first half of the Seventeenth Century.
568. French Classicism II. (4-0-4) Su. Representative authors of the second half of the Seventeenth Century.
575. The Age of Enlightenment. (4-0-4) W. Chosen authors of the Eighteenth Century.
578. French Realism and Naturalism. (4-0-4) W. Representative works of the French realists and naturalists of the Nineteenth Century.
580. Contemporary French Literature. (4-0-4) F. Contemporary authors such as Sartre, Anouilh, Beckett, and Robbe-Grillet.
585. Seminar in French Literature. (4-0-4) F. Work and discussion of various topics chosen according to students' needs.
595. Thesis. (Arr.-Arr.-4)

GERMAN**UNDERGRADUATE COURSES**

- 130, 131, 132. Elementary German. (4-0-4 each course) Emphasis on conversation, grammar, reading; incorporation of cultural, geographical, and historical information; use of audio-visual aids.

- 233, 234, 235. Second Year German. (4-0-4 each course) 233-Su, F, W; 234-Su, W, S; 235-F, S. Rapid review of grammar; practice and vocabulary-building exercises in conversation, and in composition; reading of selected short stories. Prerequisite: German 132 or two years of high school German for German 233; German 235, prerequisite is German 234.
340. **Methods of Teaching German.** (4-0-4) W. Prerequisite: Admission to teacher education and junior standing.
341. **Methods of Teaching German.** (2-0-2) S. A course designed for German minors. Prerequisite: Admission to teacher education.
353. **Masterpieces of German Literature.** (4-0-4) F. Introduction to German literature, its themes, forms, and ideals. Prerequisite: German 235 or permission of the department.
354. **Conversation and Writing.** (4-0-4) W. Training in writing German, diction and pronunciation. Prerequisite: German 235 or permission of the department.
355. **Twentieth Century German Literature.** (4-0-4) (Omitted 1971-72.) Introduction to trends of modern civilization as reflected in contemporary German literature: Hofmannsthal, Rilke, Trakl, Hauptmann. Prerequisite: German 235 or permission of the department.
361. **Linguistics.** (4-0-4) (Omitted 1971-71.) Systematic drills are used to build the student's knowledge of the structure of German and to eliminate errors caused by the patterns of the student's native English. Prerequisite: German 235 or permission of the department.
362. **Schiller's Dramas.** (4-0-4) S. A study of the development of German classicism as embodied in Schiller's dramas. Prerequisite: German 235 or permission of the department.
363. **Lyrics and Ballads.** (4-0-4) (Omitted 1971-72.) A poetical and metrical survey of German lyrical verse from its beginning to modern times, with critical analysis of representative poems. Prerequisite: German 235 or permission of the department.
410. **Contemporary German Culture and Civilization.** (4-0-4) (Omitted 1971-72.) A systematic study of present day Germany, Austria, and Switzerland. Prerequisite: Three years of college German or permission of the department.
411. **German Drama.** (4-0-4) (Omitted 1971-72.) A study of the outstanding German dramas until 1800. Prerequisite: Three years of college German or permission of the department.
412. **Introduction to Goethe.** (4-0-4) (Omitted 1971-72.) A study of Goethe from his earliest literary pursuit to 1806. Prerequisite: Three years of college German or permission of the department.

COURSES OPEN TO JUNIORS, SENIORS, AND GRADUATE STUDENTS

453. **German Literature to 1700.** (4-0-4) F.
454. **German Literature since 1700.** (4-0-4) W.
455. **Advanced Composition and Syntax.** (4-0-4) S. Advanced training in writing, grammar, syntax and style; essays and discussions will be drawn from various aspects of German literature and philology.

GRADUATE COURSES

(Courses numbered 500-549 inclusive may be taken by a senior whose grade point average is 3.0 or higher, with permission of the instructor and the Dean of the Graduate School. Courses numbered 550 and above are open only to graduate students.)

- 510 **History of German Civilization.** (4-0-4) (Omitted 1971-72.) Analysis of selected topics from German culture and civilization.
511. **Modern German Drama.** (4-0-4) Su. A study of the drama of the Nineteenth and Twentieth Centuries and its relation to World Drama, especially Greek.

512. **Goethe. (4-0-4) Su.**
572. **German Lyric Poetry from 1880 to the Present. (4-0-4) S.** Discussion and lectures on the development of modern concepts in the genre as reflected in the works of George, Rilke, Trakl, and others.
574. **The German Drama of the Nineteenth Century. (4-0-4) W.** A study of the background and development of the theater in Germany. Reading and discussion of the works of Buchner, Kleist, Hebbel, Hauptmann, and others.
580. **Seminar in German Literature. (4-0-4) F.** The study and discussion of various topics as chosen according to need. Prerequisite: Sixteen quarter hours of 500 level courses or permission of the department head.
595. **Thesis (Arr.-Arr.-4)**

LATIN

UNDERGRADUATE COURSES

- 120, 121, 122. **Elementary Latin. (4-0-4 each course)** 120-Su, F. 121-Su, W. 122-Su, F, S. The aim in this course is to teach the student the fundamentals of the language. Special attention is given to the influence of Latin on English.
220. **Introductory Latin Reading. (4-0-4) F, W.** Selection from Aulus Gellius, Phaedrus, and Caesar. Prerequisite: Latin 122, or two years of Latin in high school.
221. **Vergil's Aeneid. (4-0-4) W, S.** Selections from Book I to VI. Greek and Roman mythology; scansion; sight translation; life of Vergil. Prerequisite: Latin 220 or permission of the department.
222. **Orations of Cicero. (4-0-4) S.** Readings from the four orations against Catiline. Cicero's career and the political background of the conspiracy of Catiline are discussed. Prerequisite: Latin 221 or permission of the department.
320. **A Survey of Classical Roman Literature, Part I. (4-0-4) (Omitted 1971-72.)** Chronological selections illustrative of Latin literature in the period of the Republic. Prerequisite: Two years of college Latin or permission of the department.
321. **A survey of Classical Roman Literature, Part II. (4-0-4) (Omitted 1971-72.)** Chronological selections illustrative of Latin literature in the period of the Empire. Prerequisite: Two years of college Latin or permission of the department.
322. **Selected Letters. (4-0-4) (Omitted 1971-72.)** Readings from the correspondence of Cicero and Pliny. Prerequisite: Two years of college Latin or permission of the department.
330. **Cicero's Essays, Selections from De Amicitia and De Senectute. (4-0-4) F.** Prerequisite: Two years of college Latin or permission of the department.
331. **Horace, Selections from the Odes, Satires, and Epistles. (4-0-4) W.** Prerequisite: Two years of college Latin or permission of the department.
332. **Livy, Selections from Books I, XXI, XXII. (4-0-4) S.** Prerequisite: Two years of college Latin or permission of the department.
340. **Methods of Teaching Latin. (4-0-4) W.** Prerequisite: Admission to teacher education and junior standing.
341. **Methods of Teaching Latin. (2-0-2) S.** A course designed for Latin minors. Prerequisite: Admission to teacher education.
433. **Ovid, Selections from Tristia, Heroides, Amores, Fasti, Metamorphoses. (4-0-4) (Omitted 1971-72.)** The life and times of Ovid; Roman and Greek mythology. Prerequisite: Three years of college Latin or permission of the department.

434. **Latin Composition (4-0-4) (Omitted 1971-72.)** Provides the Latin student with extensive training and practice in expressing himself in idiomatic classical Latin. Prerequisite: Three years of college Latin or permission of department.
435. **Medieval Latin. (4-0-4) (Omitted 1971-72.)** Readings in the history, poetry and philosophy of the Middle Ages. Special attention is given to the comparative philology of Latin and the Romance languages. Prerequisite: Three years of college Latin or permission of the department

COURSES OPEN TO JUNIORS, SENIORS, AND GRADUATE STUDENTS

450. **Tacitus, Germania and Agricola; Selections from Annals and Histories. (4-0-4) F.**
451. **Selections from Catullus and Martial. (4-0-4) W.**
452. **Roman Comedy. The Menaechmi and Captives of Plautus; The Phormio and Andria of Terence. (4-0-4) S.**

GRADUATE COURSES

(Courses numbered 500-549 inclusive may be taken by a senior whose grade point average is 3.0 or higher, with permission of the instructor and the Dean of the Graduate School. Courses numbered 550 and above are open only to graduate students.)

510. **Suetonius: The Life of Augustus Caesar. (4-0-4) S.** Translation of primary historical document pertaining to the rise of the Roman Empire; critical evaluation of Suetonius as a biographer and historian.
511. **Petronius, Cena Trimalchionis and Seneca, Apocolotytosis. (4-0-4) (Omitted 1971-72.)** Examples of Roman satire in the first century A.D.; introduction to the picaresque novel.
512. **Apuleius, The Story of Cupid and Psyche. (4-0-4) (Omitted 1971-72.)** Translation of a major excerpt from Apuleius' Metamorphosis introduction to the Eastern cults prevalent in Rome.
595. **Thesis. (Arr.-Arr.-4)**

RUSSIAN

UNDERGRADUATE COURSES

- 140, 141, 142. **Elementary Russian. (4-0-4 each course) 140-F,W; 141-W,S; 142-F,S.** Pronunciation; basic grammar; written and oral exercises; reading of simple Russian prose.
- 250, 251, 252. **Second Year Russian. (4-0-4 for each course) 250-F; 251-W; 252-S.** Study of grammar continued; written and oral exercises; reading of moderately difficult Russian prose. Prerequisite: Russian 142 or two years of high school Russian for Russian 250; for Russian 252, prerequisite is Russian 251.
340. **Methods of Teaching Russian. (4-0-4) W.** Prerequisite: Admission to teacher education and junior standing.
341. **Methods of Teaching Russian. (2-0-2) S.** A course designed for Russian minors. Prerequisite: Admission to teacher education.
350. **Linguistics. (4-0-4) (Omitted 1971-72)**
351. **Conversation and Writing. (4-0-4) W.**
352. **Aspects of Russian Civilization. (4-0-4) S.**
360. **Modern Russian Authors. (4-0-4) F.** Reading of short selections from a wide range of authors. Prerequisite: Two years of college Russian or permission of the department.

361. **Masterpieces of Russian Literature. The Russian Novel in the Nineteenth Century.** (4-0-4) (Omitted 1971-72) Reading of selected chapters from *War and Peace*, *Anna Karenina*, *Brothers Karamazov*, *Crime and Punishment*, *Dead Souls*, and *Fathers and Sons*. Prerequisite: Two years of college Russian or permission of the department.
363. **Chekhov and Other Russian Dramatists.** (4-0-4) (Omitted 1971-72) Prerequisite: Two years of college Russian or permission of the department.

SPANISH

UNDERGRADUATE COURSES

- 130, 131, 132. **Elementary Spanish.** (4-0-4 each course) 130-F, W; 131-W, S; 132-Su, F, S. Emphasis on conversation, grammar, reading; incorporation of cultural, geographical, and historical information; extensive use of audio-visual aids.
- 230, 231, 232. **Second Year Spanish.** (4-0-4 each course) 230-Su, F, W; 231-Su, W, S; 232-Su, F, S. Rapid review of grammar; practice and vocabulary-building exercises in conversation, and in composition; reading of selected short stories. Prerequisite: Spanish 132 or two years of Spanish in high school for Spanish 230; for Spanish 232, prerequisite is Spanish 231.
321. **Introduction to Spanish Literature, Twelfth to Fifteenth Centuries.** (4-0-4) F. Prerequisite: Two years of college Spanish or permission of the department.
322. **Introduction to Spanish Literature, Sixteenth to Seventeenth Centuries.** (4-0-4) W. Prerequisite: Two years of college Spanish or permission of the department.
323. **Introduction to Spanish Literature, Eighteenth to Twentieth Centuries.** (4-0-4) S. Prerequisite: Two years of college Spanish or permission of the department.
325. **Introduction to Spanish American Literature, I.** (4-0-4) F. A study of the development of Spanish American literature from the Colonial period to 1886. Prerequisite: Two years of college Spanish or the equivalent.
326. **Introduction to Spanish American Literature, II.** (4-0-4) W. A study of the development of Spanish American literature from 1886 to present. Prerequisite: Two years of college Spanish or the equivalent.
327. **Spanish Composition and Conversation.** (4-0-4) Intermediate level course continuing the skills of speaking and writing developed in the second year. Guided conversation, grammar review, oral and written composition. Prerequisite: Two years of college Spanish or permission of the department.
340. **Methods of Teaching Spanish.** (4-0-4) W. Prerequisite: Admission to teacher education and junior standing.
341. **Methods of Teaching Spanish.** (2-0-2) S. A course designed for Spanish minors. Prerequisite: Admission to teacher education.
410. **Oral and Written Composition.** (4-0-4) (Omitted 1971-72) A study of fundamental aspects of spoken and written Spanish. Frequent oral and written reports required. Prerequisite: Three years of college Spanish or permission of the department.
411. **Modern Short Stories of Spain.** (4-0-4) (Omitted 1971-72) Prerequisite: Three years of college Spanish or permission of the department.
415. **The Hispanic World.** (4-0-4) S. Prerequisite: Three years of college Spanish or the equivalent.

COURSES OPEN TO JUNIORS, SENIORS, AND GRADUATE STUDENTS

456. **The Short Story in Spanish America.** (4-0-4) F. A study of the development of the short narrative in Spanish America, and the reading of short stories from representative authors.

457. **Modern Poetry of Spanish America. (4-0-4) W.** A study of the poetry of Spanish America, from the modernista movement to the present.
458. **Modern Novel of Spanish America. (4-0-4) Su.**

GRADUATE COURSES

(Courses numbered 500-549 inclusive may be taken by a senior whose grade point average is 3.0 or higher, with permission of the instructor and the Dean of the Graduate School. Courses numbered 550 and above are open only to graduate students.)

510. **Poetry of Spain. (4-0-4) (Omitted 1971-72)** Readings and analysis of Spanish poetry from Fifteenth Century to present.
511. **Selected Modern Drama of Spain. (4-0-4) (Omitted 1971-72)** Reading of complete modern dramas of Spain from second half of the Nineteenth Century to present with emphasis in current developments in Spanish theater. Discussion in Spanish.
512. **Modern Novels of Spain. (4-0-4) (Omitted 1971-72)** Reading of complete novels of Spain from latter part of the Nineteenth Century to present.
530. **Spanish Bibliography. (4-0-4) W.** Methods of location and acquisition of material available for research projects in the Hispanic field.
555. **History of the Spanish Language. (4-0-4) F.** Study of the development of the language from Vulgar Latin to Modern Spanish.
560. **Classroom and Laboratory Techniques for College Spanish. (4-0-4) S.** A course particularly relevant to students preparing to teach at the junior college or college level.
561. **Cervantes. (4-0-4) (Omitted 1971-72)** Study of the novel *Don Quijote de la Mancha* by Miguel de Cervantes Saavedra.
562. **Theatre of the Golden Age. (4-0-4) W.** Study of the creation of Spanish National theatre in the Golden Age and of selected works of the most prominent dramatists of the period.
564. **Generation of 1898. (4-0-4) (Omitted 1971-72)** Study of representative writers of the Generation of 1898.
570. **Spanish American Drama. (4-0-4) F.** Study of Spanish American dramatic literature from its origin to the present.
571. **Spanish American Poetry. (4-0-4) (Omitted 1971-72)** Study of major movements in Twentieth Century Spanish American poetry and their critical interpretation and analysis.
572. **Spanish American Novel: Middle America. (4-0-4) S.** Study of the different movements and themes in the novels of Mexico, Central America and the Antilles, with particular emphasis on the novel after 1910.
573. **Spanish American Novel: South America. (4-0-4) Su.** Study of different themes and movements in South American novel, with particular emphasis on the Twentieth Century.
580. **Seminar of Spanish Literature. (4-0-4) (Omitted 1971-72)** Special topic and research course devoted to selected problems, genres, literary movements, and major writers in Spanish literature.
582. **Seminar of Spanish American Literature. (4-0-4) Su.** Special topic and research course devoted to selected problems, genres, literary movements, and major writers in the Spanish American literature.

FRENCH (See Foreign Languages)

Geography and Geology

GEOGRAPHY

UNDERGRADUATE COURSES

141. **Physical Geography.** (2-4-4) W. Study of weather and climate, the factors which influence them, and their importance to man; recent developments in meteorology presented.
142. **Physical Geography.** (2-4-4) S. A study of the earth's surface, landforms, water resources, soils, vegetation, economic minerals, and their areal interrelationships. Field trip.
150. **World Geography.** (4-0-4) Study of man on the earth, stressing significant areal differences in population and the working bonds man has developed with the land and its resources.
151. **Geography of North America.** (4-0-4) F, W. A basic introduction to topical and regional approaches in geography, with North America, especially the United States, the example. Prerequisite: Geography 150 or 141 or 142. No credit if Geography 302 has been taken.
242. **Regional Landforms.** (2-4-4) W. Landforms of the United States; work with maps of landforms; consideration to their composition, distribution, and the processes by which formed. Prerequisite: Geography 142 or permission of instructor.
300. **Elementary Earth Science I.** (4-0-4) Su, F, W. Phenomena of earth shape and motions, daylight, time, analyzed. Landforms, and earth resources introduced. Local field trip. No credit if Geography 142 or Geology 140 has been taken.
301. **Elementary Earth Science II.** (4-0-4) S. An analysis of the weather and climatic elements and controls and world climatic regions. Daily weather maps explored. No credit if Geography 141 has been taken.
302. **North America.** (4-0-4) Su, S. Man's occupancy of the continent of North America with topical and regional emphasis on the U.S. Prerequisite: One course in geography. No credit if Geography 151 has been taken.
340. **Methods and Materials.** (4-0-4) F. The nature of the discipline and its place in the school curriculum. Tests, reference materials, visual and other aids, and classroom procedures. Prerequisite: Admission to teacher education and junior standing.
351. **Geography of the Caribbean Lands.** (4-0-4) F. An analysis of the resources, culture and problems of Mexico, Central America and West Indian Islands.
360. **Economic Geography.** (4-0-4) An examination of world industries and the areal significance of economic activities with emphasis on the U.S.
362. **Advanced Economic Geography.** (4-0-4) W. The essential agricultural resources of the world and their associated industries are studied with emphasis on the geographic aspects of recent economic development.
365. **Cultural Geography.** (4-0-4) W. A geographic analysis of man's occupancy and use of the earth within culture regions. Prerequisite: Geography 150 or the permission of the instructor.
370. **Geography of Illinois.** (4-0-4) (Omitted 1971-72.) A study of Illinois: its climate, landforms, soil, water and mineral resources. Population distribution and economic activities and geographic regions.
375. **Population Geography.** (4-0-4) S. A geographic inquiry of world population stressing such topics as numbers, densities, growth rates, and distribution patterns. Prerequisite: Geography 150 or permission of instructor.

- 380. **Cartography. (2-4-4) F.** Instruction and practice in the fundamentals of map design, map projections, map construction, reproduction and data compilation.
- 381. **Field Techniques and Problems. (4-0-4) S.** Experience in defining and solving field problems through collecting and analyzing field data. Plane tabling, simple field maps, aerial photographs.
- 387. **Conservation of Natural Resources. (4-0-4) F.** Study of problems dealing with wise use of soils, minerals, forests, animals, and waters with special reference to Illinois and the United States.

COURSES OPEN TO JUNIORS, SENIORS, AND GRADUATE STUDENTS

- 450. **North America. (4-0-4) (Omitted 1971-72.)** An advanced study which emphasizes the United States' landforms, resources, cities, rivers, transportation routes and economic areas. Prerequisite: Permission of instructor.
- 451. **Geography of South America. (4-0-4) W.** Physical features, resources, peoples, land utilization, and economic development of the countries of South America.
- 452. **Geography of Europe. (4-0-4) F.** Europe: an introduction to the physical geography and the economic development of its countries.
- 453. **Geography of Asia. (4-0-4) S.** Physical and cultural geography as a background for understanding the current problems in southwestern, southern and eastern Asia.
- 455. **Geography of the U.S.S.R. (4-0-4) S.** A regional study of the Soviet Union. Includes study of the physical and the cultural environment in which the Russian people live and work.
- 456. **The North American Midwest. (4-0-4) W.** A regional approach to climate, settlement, agriculture, industry, trade and transportation of central U.S. Illinois given special attention.
- 458. **Geography of Africa. (4-0-4) Su.** A regional study of Africa. Development and interpretation of physical, political, economic and social regions in Africa.
- 459 (446). **Urban Geography. (4-0-4) F.** A study of the urban areas of the world. Analysis of the origins, development, distribution, character, structure, and functions of urban centers.
- 470. **Historical Geography of the United States. (4-0-4) W.** Focuses on periods of geography of the past and the geography of the U.S. through time.
- 471. **Political Geography. (4-0-4) (Omitted 1971-72)** Study of world powers and their geographic conditions. Analysis of current "hot spots" and the fundamentals of national strength.
- 480. **Advanced Cartography. (2-4-4) Su, S.** A study of maps, their construction, history, uses; techniques in compilation, statistical representation and analysis through maps and charts. Prerequisite: Geography 380.
- 486. **Geography of Soils. (4-0-4) (Omitted 1971-72)** An advanced course with emphasis on interrelationships of soil with features of the physical and cultural environment especially in Illinois. Prerequisite: Permission of instructor.
- 490, 491, 492. **Independent Study. (Arr.-Arr.-4 each course)** Provides opportunity for independent study at the graduate or undergraduate level. With permission of department head and approval of Dean, Letters and Science, these courses may be taken for less than 4 q. hrs. credit.

GRADUATE COURSES

(Courses numbered 500-549 inclusive may be taken by a senior whose grade point average is 3.0 or higher, with permission of the instructor and the Dean of the Graduate School. Courses numbered 550 and above are open only to graduate students.)

510. **Nature and Philosophy of Geography. (4-0-4) S.** Analysis of the historical development of basic modern philosophies of geography.
511. **Techniques in Geographic Research. (4-0-4) Su.** An introduction to selected techniques valuable in geographic research. Emphasis is accorded to statistical bibliographic and interview methods. Prerequisite: Permission of the instructor.
513. **Landform Regions of the United States. (4-0-4) S.** An areal approach to the study of landform regions of the conterminous states. Various systems of landform classification evaluated.
530. **Advanced Historical Geography. (4-0-4) (Omitted 1971-72)** Selected studies of changes in the geographical bases of man's uses of the land from pre-Columbian times to the present in North America. Prerequisite: Geography 470 or permission of the instructor.
550. **Geography in World Affairs. (4-0-4) (Omitted 1971-72)** Study of man on the earth. Emphasis upon the natural resources, agricultural and industrial production, and transportation in world affairs. Credit applicable only to the Group III requirement for the degree M.S. in Ed.
551. **A Geography of Man. (4-0-4) (Omitted 1971-72)** Gives the student a better understanding of the role of geography in human affairs. Attention is given to recent literature in geography. Credit applicable only to the Group III requirement for the degree M.S. in Ed.
562. **Seminar in Earth Resources. (4-0-4) Su, S.** A course developing, in some detail, aspects of soil, water, vegetation and minerals as earth resources. Prerequisite: Permission of the instructor.
563. **Seminar in Regional Geography. (4-0-4) W.** Intensive study of special regions of the world. The regions to be determined by the areas of specialization of the students. Prerequisite: Permission of the instructor.
570. **Seminar in Population and Settlement. (4-0-4) (Omitted 1971-72.)** Analysis of the ways in which man and his culture have come to be variously distributed over the surface of the earth.
571. **Seminar in Economic Geography. (4-0-4) F.** A course devoted to selected topics in economic geography.
574. **Seminar in Area Planning. (4-0-4) W.** The study of geographic factors as applied to urban, community, and regional planning. Special emphasis on local planning problems. Prerequisite: Permission of instructor.
590. **Seminar in Educational Geography. (4-0-4)** The place of geography among the disciplines at all levels especially college. Opportunity for independent study and research.
595. **Thesis. (Arr.-Arr.-4)**

GEOLOGY

UNDERGRADUATE COURSES

140. **Physical Geology. (2-4-4)** Study of earth materials, common rocks and minerals, vulcanism, erosional and tectonic processes. Field trip.
243. **Historical Geology. (2-4-4)** Origin of the Earth and development of its crust; relations among rock units; fossils as documents of evolution and environment. Field trip. Prerequisite: Geology 140.
244. **Mineralogy. (2-4-4) F.** A study of minerals with emphasis on crystallography, genesis, association, and classification. Prerequisites: Geology 140 and Chemistry 120 or 150.

245. **Principles of Geomorphology. (2-4-4)** Physical and mathematic analysis of processes that modify the Earth's surface; structural and climatic controls; sequential development. Field trip. Prerequisite: Geology 140.
343. **Structural Geology. (2-4-4)** W. Forces involved in the deformation of rocks with emphasis on the recognition and interpretation of the resultant geologic structures. Field trip. Prerequisite: Geology 243.
344. **Field Geology. (2-4-4)** S. Solution of geologic problems using field methods and techniques in collection, classifying and analyzing data. Prerequisites: Geology 243 and 245 and permission of the instructor.
345. **Petrology. (2-4-4)** W. Physical and chemical properties of rocks, their origin, classification and geologic distribution. Field trip. Prerequisite: Geology 140.
346. **Economic Geology. (2-4-4)** Su, F, S. Origin, geologic occurrence and utilization of metallic and non-metallic mineral deposits including fuels and ground-water. Field trip.
440. **Independent Study. (Arr.-Arr.-4)** Independent study in the field of geology, designed for the individual needs of the student. Prerequisites: Geology 243 and 245, or permission of the instructor.
441. **Independent Study. (Arr.-Arr.-2)** Independent study in the field of geology, designed for the individual needs of the student. Prerequisites: Geology 243 and 245, or permission of the instructor.
445. **Principles of Stratigraphy. (2-4-4)** S. Development of the stratigraphic column; stratigraphic paleontology; sedimentary facies; principles of correlation. Field trip. Prerequisite: Geology 243.
447. **Sedimentation. (2-4-4)** W. Analysis of sediments; environments of deposition; post-depositional changes; properties of sedimentary rocks and classification. Prerequisite: Geology 345.
449. **Invertebrate Paleontology. (2-4-4)** F. Description and classification of major fossil invertebrate groups; preservation of fossils; use of fossils in geologic work. Field trip. Prerequisite: Geology 243 or permission of instructor.

GERMAN (See Foreign Languages)

HEALTH EDUCATION

UNDERGRADUATE COURSES

120. **Personal Health. (4-0-4)** The application of scientific health facts and principles that relate to effective living.
132. **First Aid. (2-0-2)** Designed to teach students the basic skills necessary to handle home and school emergencies.
227. **Community Health. (4-0-4)** Factors in the biological, physical, and social environments that influence the magnitudes and character of health problems, goals, and solutions. Prerequisite: Health Education 120.
300. **Instructor's First Aid. (4-0-4)** S. Standard, advanced, and instructor's course in first aid.
320. **School Health. (4-0-4)** A survey of the school health program with emphasis on the responsibilities of school personnel. Prerequisite: Health Education 120 or equivalent.
330. **Principles of Accident Prevention. (4-0-4)** Safety problems of modern life in the home, school, during recreation, on the highway, and at work.
331. **Introduction to Driver Education. (4-1-4)** Preparation for high school driver education teachers. Includes simulation and work with beginning drivers. Prerequisites: Valid driver's license and a safe driving record.

- 332. **Advanced Driver Education and Traffic Safety. (4-0-4)** Su, F, S. Administration, organization, finance, special programs and evaluation of school driver education programs.
- 335. **Industrial Accident Prevention. (4-0-4)** W. Trends and organizational techniques in accident prevention programs as related to industrial operations.

COURSES OPEN TO JUNIORS, SENIORS, AND GRADUATE STUDENTS

- 480. **Alcohol, Narcotics, Hallucinogenic Drugs: Science and Society. (4-0-4)** Su. The use and abuse of drugs.

GRADUATE COURSES

(Courses numbered 500-549 inclusive may be taken by a senior whose grade point average is 3.0 or higher, with permission of the instructor and the Dean of the Graduate School. Courses numbered 550 and above are open only to graduate students.)

- 501. **Current Health Problems. (4-0-4)** S. An epidemiological investigation of the cause, nature, extent, and programming of current health problems.
- 505. **Occupational Cooperative Education. (Arr.-Arr.-4)** Su. A study of part-time, on-the-job education utilizing the resources of the community and the school. Team teaching in Business Education, Education, Health Education, Home Economics, and Industrial Arts. A student may take the course for credit in only one of the departments.
- 506. **Administration and Supervision of Occupational Education. (Arr.-Arr.-4)** Su. To prepare personnel for administering and supervising occupational education programs. Team teaching in Business Education, Education, Health Education, Home Economics, and Industrial Arts. A student may take the course for credit in only one of the departments.
- 507, 508, 509. **Seminar in Occupational Education. (Arr.-Arr.-4 each course)** Su. Intensive study of contemporary problems, issues, trends and developments in occupational education and technology. Offered in Business Education, Education, Health Education, Home Economics, and Industrial Arts. A student may take each course for credit in only one of the departments.

HISTORY

UNDERGRADUATE COURSES

- 233. **History of the United States to 1815. (4-0-4)** The colonial period; the independence movement; the framing and adoption of the Constitution; the growth of American nationality.
- 234. **History of the United States, 1815 to 1898. (4-0-4)** Jacksonian democracy; Manifest Destiny; the Civil War and Reconstruction; the new industrial society and the agrarian movement.
- 235. **History of the United States since 1898. (4-0-4)** The United States as a world power; the progressive movement; World War I; economic expansion and depression; World War II and after.
- 254. **Ancient History. (4-0-4)** Emphasis on Ancient Near East, Greece, the Roman Empire, and early medieval times.
- 255. **European History, c. 900 to 1600. (4-0-4)** Rise of feudalism, revival of Empire, rise of national states, and beginnings of modern Europe.
- 256. **European History, 1600 to 1815. (4-0-4)** Age of Louis XIV, major events of Eighteenth Century, French Revolution and Napoleon.

257. **European History, 1815 to Present. (4-0-4)** Growth of nationalism and liberalism, unification of Germany and Italy, background of World War I, Rise of Fascism and Nazism, World War II, Cold War.
281. **Latin-American History to 1830. (4-0-4)** (Omitted 1971-72.) A survey of the colonial period of Latin-American History.
282. **Latin-American History since 1830. (4-0-4)** (Omitted 1971-72.) A survey of the republican period of Latin-American History.
323. **Economic History of the United States, 1607-1860 (4-0-4)** (Omitted 1971-72.) An examination of the historical development of the major elements of the American economy to the Civil War.
324. **Economic History of the United States, 1860-1929 (4-0-4)** (Omitted 1971-72.) An examination of the American economy from the Civil War to the crash of 1929.
325. **Economic History of the United States, 1929 to Present. (4-0-4)** (Omitted 1971-72.) An examination of the American economy from the crash of 1929 to the present.
330. **Prehistoric and Early Historic Backgrounds of European Civilization. (4-0-4)** (Omitted 1971-72.) A history of early peoples in Northern Europe through historical and archaeological sources.
343. **History of England to 1603. (4-0-4)** F, S. A survey of English History from the beginnings to 1603.
344. **History of England and the British Empire, 1603 to 1815. (4-0-4)** Su, W, S. A survey of English History from 1603 to 1815.
345. **History of the British Empire since 1815. (4-0-4)** Su, S. A survey of English History since 1815.
360. **The Early National Period 1787-1812. (4-0-4)** Su, W. Seminar dealing with the administrations of Washington, Adams and Jefferson.
361. **The Early National Period 1812-1840. (4-0-4)** S. Seminar dealing with the administrations of Madison, Monroe, Adams and Jackson.
370. **History of Illinois. (4-0-4)** F. A history of the state from the French regime through the Civil War to the present.
371. **Expansion and Disunion, 1820 to 1861. (4-0-4)** Su, W. A study of the expansionist period of the mid-Nineteenth Century and the background of the Civil War era.
372. **Civil War and Reconstruction. (4-0-4)** S. A survey of the causes of the Civil War, the War, and its legacy.
378. **Czarist Russia. (4-0-4)** (Omitted 1971-72.) History of Russia to 1800.
379. **Czarist and Soviet Russia. (4-0-4)** (Omitted 1971-72.) History of Russia, 1801 to the Present.
381. **Afro-American History, 1619-1903. (4-0-4)** A history of Afro-Americans from their African background, the slave trade, slavery, struggle for equality and the decades of disappointment.
382. **Afro-American History, 1903-Present. (4-0-4)** A history of Afro-Americans in the Twentieth Century. An examination of their struggle for civil rights, the advancement of black culture, and black power.
397. **History of Ancient Greece. (4-0-4)** (Omitted 1971-72.) An advanced course in the history of ancient Greece from the Mycenaeans to the Hellenistic Age.
398. **History of Rome. (4-0-4)** (Omitted 1971-72.) An advanced course in the history of Rome from its prehistoric foundations to the end of the Roman Empire.
399. **Summer Study in Ireland. (0-0-9)** Su. Independent research in history. Six weeks of residence in the Republic of Ireland will be required. Open to juniors and seniors.

COURSES OPEN TO JUNIORS, SENIORS, AND GRADUATE STUDENTS

- 453, 454. **Constitutional History of England.** (4-0-4 each course) (Omitted 1971-72.) The development of democratic institutions, common law, court system, and constitutional monarchy to 1485, from 1485 to the present.
460. **Recent United States History, 1900-1930** (4-0-4) W. An intensive study of political, social and intellectual developments in the United States prior to the Great Depression.
461. **Recent United States History, since 1930.** (4-0-4) F, S. An intensive study of political, social and intellectual developments in the United States since 1930.
462. **Social and Intellectual History of the Russian Revolution, 1825-1917.** (4-0-4) F. A social and intellectual history of Russia from 1825 to 1917.
463. **Social and Intellectual History of the Russian Revolution, 1917 to Present.** (4-0-4) W. A social, political and intellectual history of the Soviet Union from 1917 to the present.
464. **Problems in Latin-American History.** (4-0-4) W. Major problems of Latin-American history.
465. **Latin America and the United States.** (4-0-4) S. A study of the history of diplomatic relationships between Latin America and the United States.
466. **History of the American Frontier, the Colonial Period, 1492-1783.** (4-0-4) W. The discovery, settlement, and westward movement in the U.S. emphasizing the effect of the frontier in American history.
467. **History of the American Frontier, the Trans-Appalachian Frontier, 1783-1850** (4-0-4) S. The occupation of the Mississippi Valley emphasizing the role of the frontier on the growth of sectionalism before the Civil War.
468. **History of the American Frontier, the Western Frontier.** (4-0-4) (Omitted 1971-72.) American expansion into the Trans-Mississippi area in the Nineteenth Century to the closing of the frontier in 1890.
469. **Constitutional History of the United States to 1865.** (4-0-4) (Omitted 1971-72.) The constitutional history of the United States from the beginning to 1865.
470. **Constitutional History of the United States since 1865.** (4-0-4) (Omitted 1971-72.) The constitutional history of the United States from 1865 to the present.
473. **History of United States Immigration.** (4-0-4) (Omitted 1971-72.) The cultural, social, political, and economic impact of immigration on the U.S. and the process of assimilation.
474. **Diplomatic History of the United States, 1776-1898.** (4-0-4) S. The American Revolution, Napoleonic Era, Expansion, Civil War, Anglo-American approachment.
475. **Diplomatic History of the United States, 1898-1933.** (4-0-4) F. The new Manifest Destiny, the First World War and Versailles, isolation, and depression.
476. **The American Colonies.** (4-0-4) F. Colonization of the area now included in the United States; the political, economic, and social development of the American colonies to 1763.
477. **The American Revolution and Confederation.** (4-0-4) W. The origins of the American Revolution; consequences of the revolution; problems of the critical period; American Constitutionalism.
480. **Diplomatic History of the United States, 1933-Present.** (4-0-4) W. Good neighbor policy, World War II, the Cold War, Vietnam and the United States.
481. **The Old South.** (4-0-4) W. A social history of the South before 1865 with emphasis on cultural deviations between North and South.
482. **The New South.** (4-0-4) S. A social history of the South since 1865, tracing the effects of the Civil War upon southern culture and developments in the Twentieth Century.

484. **Selected Topics in Byzantine, Islamic and Persian History. (4-0-4)** S. The most important periods from the fourth to the seventeenth century, including Islamic Spain; some illustrated lectures.
485. **Europe in the Eighteenth Century. (4-0-4)** F. A study of the rise of new powers with emphasis on the ideas of the Enlightenment.
486. **The World in the Twentieth Century. (4-0-4)** Su, F. The apex and decline of European hegemony in the age of the world wars, class war, cold war and totalitarianism.
487. **Labor History of the United States, 1607-1900. (4-0-4)** (Omitted 1971-72.) An examination of the historical growth and change among various categories of American labor and the idea of work from 1607 to 1900.
488. **Labor History of the United States, 1900 to the Present. (4-0-4)** (Omitted 1971-72.) An examination of the various types of American labor and their relationships to major institutions from 1900 to the present.
489. **The French Revolution. (4-0-4)** W. A study of the French Revolution and the concept of revolution in general.
490. **Europe in the Nineteenth Century. (4-0-4)** S. A study of nationalism and other important "isms" of the century.
491. **History of Germany, 1815-1918. (4-0-4)** W. The rise of nationalism and liberalism, the 1848 Revolution, Bismarck and the emergence of the German Reich, World War I.
492. **Germany since 1919. (4-0-4)** S. The Weimar Republic, National-Socialism, World War II, Postwar Germany.
494. **The History of Racism in the U.S. (4-0-4)** S. A survey of the racist ideology in the United States as directed at various minority groups.
495. **Social and Intellectual History of the United States in the Colonial Period. (4-0-4)** F. The backgrounds of social and intellectual history of the United States.
496. **Social and Intellectual History of the United States in the Nineteenth Century. (4-0-4)** W. The development of ideas and way of life in the United States in the Nineteenth Century.
497. **Eastern Europe from World War I to the Present. (4-0-4)** (Omitted 1971-72.) Eastern Europe from World War I to the present.
499. **Social and Intellectual History of the United States in the Twentieth Century. (4-0-4)** Su, S. The development of ideas in the United States with emphasis on changes in thought resulting from two world wars.

GRADUATE COURSES

(Courses numbered 500-549 inclusive may be taken by a senior whose grade point average is 3.0 or higher, with permission of the instructor and the Dean of the Graduate School. Courses numbered 550 and above are open only to graduate students.)

525. **Historical Directions Toward Urban Life. (4-0-4)** (Omitted 1971-72.) A seminar in the comparative history of emergent urbanization in various periods and places.
535. **Problems in the Emergence of Modern America, 1877-1900. (4-0-4)** W. An intensive study into the major problems created in this period of industrialization, urbanization, and immigration.
540. **Problems in the Diplomatic History of the United States. (4-0-4)** S. Intensive reading in selected problems of U.S. diplomacy.
545. **Special Problems in American History. (4-0-4)** F. Special study by intensive reading in an area of history.
546. **The Period of the Early Renaissance, 1300-1517. (4-0-4)** W. The multiple currents in early modern society.

547. **The Period of the Later Renaissance and of the Reformation, 1517-1648. (4-0-4) S.** Early modern Europe in the Age of French and Turkish challenge to Hapsburg hegemony.
549. **European Diplomacy 1919-45. (4-0-4) W.** Study of interwar diplomacy with emphasis on Paris Peace Treaties, Rapallo, Locarno, Munich, Little Entente, Hitler Stalin Pact.
550. **Abraham Lincoln. (4-0-4) (Omitted 1971-72.)** A case study of historical biography. Lincoln biographies, special studies and documents are studied. Off-campus resources are used. Credit applicable only to the Group III requirement for the degree M.S. in Ed.
561. **Historiography and Historical Methods. (4-0-4) Su, F.** A study of the methods of historical research and a study of various approaches used in the interpretation of historical evidence.
563. **Seminar in American History. (4-0-4) S.** Intensive study of special topics in American history, to be determined by the interests of the students.
564. **Seminar in European History. (4-0-4) F.** Intensive study in special topics in European history, to be determined by the interests of the students.
565. **Seminar in Colonial American History. (4-0-4) S.** Research in topics dealing with Colonial American history.
566. **Seminar in Civil War and Reconstruction. (4-0-4) W.** Intensive study in topics dealing with Civil War and Reconstruction.
567. **Seminar in Social and Intellectual History. (4-0-4) S.** Research in topics dealing with social and intellectual history of the United States.
568. **Seminar in Eighteenth Century Europe. (4-0-4) W.** Intensive study in topics dealing with Eighteenth Century Europe.
569. **Seminar in Nineteenth Century Europe. (4-0-4) W.** Intensive study in topics dealing with Nineteenth Century Europe.
570. **Seminar in Twentieth Century Europe. (4-0-4) (Omitted 1971-72.)** Intensive study in topics dealing with Twentieth Century Europe.
571. **Seminar in Twentieth Century America. (4-0-4) W.** Intensive study in topics dealing with Twentieth Century America.
572. **Russian Foreign Policy, 1814-1960. (4-0-4) S.** Selected topics in Russian foreign policy from 1814 to 1960.
573. **Seminar in Modern German History. (4-0-4) F.** Intensive study of topics dealing with either 19th century Germany, Weimar Republic, National Socialism or postwar Germany.
574. **Seminar in the American West. (4-0-4) F.** An intensive study of western topics with emphasis on a seminar paper.
575. **Seminar in the Labor History of the United States. (4-0-4) (Omitted 1971-72.)** A detailed study of selected topics in the history of American labor from 1607 to the present stressing the production of a research paper.
576. **Seminar in the History of East Central Europe. (4-0-4) (Omitted 1971-72.)** Seminar in the history of East Central Europe.
577. **Seminar in the Middle Ages and the Renaissance. (4-0-4) F.** Study and research in selected Medieval and Renaissance topics.
595. **Thesis. (Arr.-Arr.-4)**

HOME ECONOMICS**UNDERGRADUATE COURSES**

- 111 (102). **Nutrition. (4-0-4)** The principles of human nutrition and their application to everyday nutritional problems. For majors only. (See Home Economics 319 for others.)
- 112 (210). **Foods I. (4-0-4)** F, W, S. A study of the guidelines important in developing desirable habits in providing the family food supply.
- 212 (211, 212). **Foods II. (2-4-4)** F, W, S. A study of the scientific principles and techniques underlying food preparation. Prerequisite: Home Economics 112.
- 220 (230). **Household Equipment. (4-0-4)** Selection, construction, operation and care of household equipment and their relation to the well-being of the family group.
- 225 (235). **Household Physics. (4-0-4)** S. Application of selected principles of electricity, heat, light, sound; physical and chemical characteristics of materials used in the home. Prerequisite: Home Economics 220.
231. **Sociology of Clothing. (4-0-4)** F, W, S. Significance of clothing choices in all cultures; psychological reasons for clothing selection; political and economic trends affecting clothing.
232. **Fashion Analysis. (4-0-4)** W. A study of fashion; selected designers, cycles and trends of fashion, terminology, production and distribution of fashion goods.
233. **Textiles. (4-0-4)** F, W. An introduction to the study of fibers, methods of fabricating textiles, and finishes on the market.
234. **Consumer Textile Products. (2-0-2)** F, W, S. A study of family clothing and common household textile products as they relate to the consumer.
- 236 (101). **Principles of Clothing Construction. (0-8-4)** F, W, S. A study of the principles of simple construction processes; interpretation and use of commercial patterns.
- 250 (346). **Child Development. (4-0-4)** The physical, mental, social, and emotional development of the pre-school child.
- 260 (347). **Family Relationships. (4-0-4)** Study of the family as the basic unit of society; personal relationships, and family interaction throughout the family life cycle.
300. **Consumer Education. (4-0-4)** Factors affecting family financial management, including investments and savings; use of credit; insurance and taxes. Team taught with Business Education 300.
- 307 (245, 345). **Home Management Theory and Laboratory. (2-4-4)** F, W, S. A study of planning, guiding, and directing the use of human and material resources toward individual and family goal achievement.
310. **Family Food Management. (2-4-4)** F. Application of scientific principles of menu construction, food buying, food preparation and table service with special emphasis on management. Prerequisite: Home Economics 212.
- 311 (302). **Advanced Nutrition. (4-0-4)** F, W, S. Human nutrition principles applied to needs of individuals at various stages in the life span, with emphasis on current nutrition research. Prerequisite: Home Economics 111.
312. **Advanced Experimental Foods. (2-4-4)** S. Advanced studies of physical and chemical reactions in food preparation when experimental procedures are applied. Prerequisite: Home Economics 212.
- 319 (303). **Human Nutrition and Food Study. (4-0-4)** W. Fundamentals of nutrition as applied to adults and children; principles involved in menu building, food buying and preparation. For non-majors only.

320. **Family Housing (2-2-2) F, W, S.** Arrangement and use of space; legal and financial considerations in renting, buying, or building; methods and materials of construction.
331. **Historic Costume. (4-0-4) W.** A comparative study of the dress of selected cultures from the Egyptians through World War II. Prerequisite: Home Economics 231.
- 336 (201). **Advanced Clothing Construction. (0-8-4)** Principles involved in the selection of fabrics, designs and patterns. Emphasis on advanced construction techniques and garment fitting. Prerequisite: Home Economics 236 or permission of instructor.
- 337 (301). **Tailoring. (0-8-4)** Tailoring techniques used in the construction of a suit or coat. Prerequisite: Home Economics 336 or permission of instructor.
340. **Methods of Teaching Home Economics. (4-0-4) Su, F, S.** The principles of teaching applied to home economics with particular emphasis on curriculum development. Prerequisite: Admission to teacher education and junior standing. Open to dietetics majors.
- 353 (348). **Practicum in Child Development. (2-4-4)** Supervised observation and participation in the guidance of children in the Nursery School. Prerequisite: Home Economics 250 or Education 232 or permission of instructor.
367. **The Family in Social Change. (4-0-4) (Omitted 1971-72.)** The study of social change in the family and recent trends in family life and family life education. Prerequisite: Home Economics 260 or permission of instructor.
369. **Aging and the Family. (4-0-4) (Omitted 1971-72)** The study of aging as a phase in the family developmental process with accompanying thoughts and the consequent effects. Prerequisite: Home Economics 260 or permission of instructor.
370. **Field Experience—Practicum. (0-8-4)** An individually planned work experience in a business or agency appropriate to the student's area of specialization. Prerequisite: Junior standing and permission of the department head and acceptance of the student by a business or agency.
- 375 (407). **Independent Study in Home Economics. (Arr.-Arr.-4)** Provides opportunity for in-depth study of home economics subjects for which there is not an established course. May be taken for credit only once.
380. **Demonstration Techniques. (2-4-4) F, S.** Development of desirable techniques and standards for use in business, teaching, and adult education.
390. **Communications in Home Economics. (4-0-4) W.** A study of techniques and skills in communicating home economics ideas, attitudes and subject matter with individuals and groups.
400. **Consumer Problems. (4-0-4) (Omitted 1971-72)** Current issues and problems confronting the contemporary family in safeguarding and spending the family income. Prerequisite: Home Economics 300 or equivalent.
- 410 (360). **Institutional Food Management. (2-4-4) F.** Practice in quantity food production, menu planning, recipe standardization, management of time, motion and materials. Prerequisite: Home Economics 111 or 319; and 212.
- 412 (402). **Diet Therapy. (4-0-4) (Omitted 1971-72.)** A study of the therapeutic care of a patient through the prescription of specific diets in relation to disease syndromes. Prerequisite: Home Economics 311.
420. **Interior Design (2-4-4) F.** Selection and arrangement of furnishings at different income levels, including the study of accessories, color schemes, and suitable fabrics.
- 425 (430). **Home Furnishings. (2-4-4) W, S.** A study of the consumer's problems in the selection and production of home furnishings.

436. **Professional Tailoring Techniques. (0-4-2) (Omitted 1971-72)** A study of the techniques used in altering and/or restyling women's and men's tailored garments. Prerequisite: Home Economics 337.
- 437 (401). **Principles of Pattern Design. (0-8-4)** S. Principles of designing clothing and the translation of these designs into paper patterns. Each student must create an original design. Prerequisite: Home Economics 337 or permission of instructor.
- 440 (431). **Senior Seminar. (4-0-4)** W, S. Current trends and research in home economics.

COURSES OPEN TO JUNIORS, SENIORS, AND GRADUATE STUDENTS

451. **Infant Development. (1-3-2) (Omitted 1971-72.)** Neonatal and postnatal development; trends of pediatric management for optimum health and welfare.
454. **Parent-Child Study. (4-0-4)** F. Detailed study of techniques and methods for parent education; observation and participation included.
459. **Administration of Child Care Programs. (4-0-4)** Su. Study of the organization, administration, curriculum, facilities and parent education aspects of child care programs. Prerequisite: Home Economics 353 or permission of instructor.
461. **The Disadvantaged Family. (4-0-4)** Su, W. Low income and minority group families and their values, needs, problems and practices. Prerequisite: Home Economics 260 or permission of instructor.
468. **The Family in Crisis. (4-0-4)** S. In-depth study of major crisis situations faced by families. Some emphasis on resources that offer help to families faced with crisis situations. Prerequisite: Home Economics 260 or permission of instructor.
470. **Homemaker Rehabilitation. (4-0-4) (Omitted 1971-72.)** A study of personal and family problems of the handicapped homemaker, stressing techniques which lead to independence.

GRADUATE COURSES

(Courses numbered 500-549 inclusive may be taken by a senior whose grade point average is 3.0 or higher, with permission of the instructor and the Dean of the Graduate School. Courses numbered 550 and above are open only to graduate students.)

- 500 (542). **Curriculum Development in Consumer Economics. (4-0-4)** S. Recent trends in consumer economics, consumer education programs and legislation affecting consumers.
505. **Occupational Cooperative Education. (Arr.-Arr.-4)** Su. A study of part-time, on-the-job education utilizing the resources of the community and the school. Team teaching in Business Education, Education, Health Education, Home Economics, and Industrial Arts. A student may take the course for credit in only one of the departments.
506. **Administration and Supervision of Occupational Education. (Arr.-Arr.-4)** Su. To prepare personnel for administering and supervising occupational education programs. Team teaching in Business Education, Education, Health Education, Home Economics, and Industrial Arts. A student may take the course for credit in only one of the departments.
- 507, 508, 509. **Seminar in Occupational Education. (Arr.-Arr.-4 each course)** Su. Intensive study of contemporary problems, issues, trends and developments in occupational education and technology. Offered in Business Education, Education, Health Education, Home Economics, and Industrial Arts. A student may take each course for credit in only one of the departments.
- 540 (542). **Curriculum Development in Home Economics Education. (4-0-4)** F. Theoretical background and experimental approaches to curriculum improvement.

- 541 (542). **Curriculum Development in Occupational Education. (4-0-4) W.** Occupational training aspects of home economics education as outlined in the Vocational Educational Act of 1963.
- 545 (560). **Supervision in Home Economics (4-0-4) (Omitted 1971-72.)** The role of the supervising teacher; problems of orientation, guidance and evaluation.
- 546 (564). **Current Issues and Trends. (4-0-4) (Omitted 1971-72.)** A seminar dealing with the current and emerging problems, issues, trends, and developments in the field of home economics.
- 547 (570). **Evaluation in Home Economics. (4-0-4) (Omitted 1971-72.)** Development and critical evaluation of instruments designed to measure pupil growth.
- 575 (502). **Independent Study in Home Economics. (Arr.-Arr.-4)** To offer opportunity and challenge for a student to pursue needed study in the area in which appropriate courses are not being currently offered. A maximum of eight quarter hours credit may be earned.
595. **Thesis. (Arr.-Arr.-4)** Individual direction of research thesis writing.

INDUSTRIAL ARTS

UNDERGRADUATE COURSES

Note: Courses in Industrial Arts are classified for curriculum selection as follows:

Orientation and Professional: 141, 340

Crafts: 129, 224, 225, 447

Electronics: 116, 216, 217, 447

Graphic Arts: 111, 212, 312, 313, 315, 412, 447

Graphics: 101, 104, 202, 205, 301, 302, 303, 405, 447

Metals: 106, 306, 307, 308, 310, 409, 447

Woods: 121, 222, 321, 322, 323, 421, 422, 423, 447

101. **Basic Engineering Drafting. (2-4-4)** Required of all majors. Students taking 101 may not take 104 for credit.
104. **Engineering Graphics. (3-3-4) F.** Students taking 104 may not take 101 for credit.
106. **Metals in Technology. (2-4-4)**
111. **Survey of the Graphic Arts. (2-4-4)** Graphic arts and allied industries. Study of raised, flat, recessed, and porous surface image transfer.
116. **AC and DC Circuits. (2-4-4)** Prerequisite: High school or college algebra and trigonometry.
121. **Woods in Technology. (2-4-4)** Function, care, and use of woodwork hand tools, woodwork supplies, and finishes.
129. **Industrial Crafts. (2-4-4) F, W.** Development, concepts, and selected processes through lectures and laboratory experiences in various media.
132. **Power in Technology. (2-4-4) F, W, S.** Development, theory and application of internal combustion, reaction and pressure engines. Electrical and nuclear power, hydraulics, pneumatics, coolants, lubricants, linkages, fuels, and emission characteristics.
141. **Orientation to Study of Industrial Education. (4-0-4) F, W, S.** Origin, development and organization of general and vocational programs of industrial education. Required of all industrial arts majors and minors.
202. **Fabrication Drafting and Analysis. (3-3-4) F.** Prerequisite: Industrial Arts 101 and proficiency in high school algebra and trigonometry or college algebra and trigonometry.
205. **Industrial Arts Design. (4-0-4) F, W, S.** Required of all majors and minors. Prerequisite: Industrial Arts 101.

212. **Basic Photo Conversion. (4-0-4)** W. Layout and design, image assembly, photo-conversion, image carrier preparation, image transfer, and finishing. Prerequisite: Industrial Arts 111 or permission of the instructor.
216. **Basic Vacuum Tube Circuits. (2-4-4)** S. Prerequisite: Industrial Arts 116.
217. **Basic Semi-Conductor Circuits. (2-4-4)** W. Prerequisite: Industrial Arts 116.
222. **Basic Fabrication of Woods. (2-4-4)** W. Study and use of power woodwork equipment. Prerequisite: Industrial Arts 121.
224. **Primary Grade Industrial Arts. (2-4-4)** Dissemination of subject matter information; laboratory experiences with industrial materials as a teaching device in the lower grades. Not open to industrial arts majors.
225. **Intermediate Grade Industrial Arts. (2-4-4)** Su, F, W. Laboratory experiences and informational content concerning industrial crafts for intermediate grade level. Not open to industrial arts majors.
235. **Heat Engines. (4-0-4)** W. Related functions design and systems for control, fuel, cooling, ignition and lubrication of gasoline, diesel, gas turbine, jet and rocket engines. Prerequisite: Industrial Arts 132.
301. **Architectural Planning and Analysis. (2-4-4)** F, W. Cost factors in house construction, styles, planning and choosing materials.
302. **Architectural Drafting and Design. (2-4-4)** W, S. Principles of house construction, details of construction, working drawings, and F.H.A. specifications. Prerequisite: Industrial Arts 301.
303. **Production Drafting and Design. (3-3-4)** W, S. Prerequisites: Industrial Arts 101, proficiency in high school algebra and trigonometry or Mathematics 130, 131.
306. **Metal Machining Processes. (2-4-4)** F, W, S. Machining processes involving the lathe, mill, shaper, drill and surface grinder. Prerequisites: Industrial Arts 106 and Mathematics 126 or 130.
307. **Production Metal Machining Processes. (2-4-4)** W. Production of multiple parts involving design, fabrication and production. Prerequisites: Industrial Arts 306 and Industrial Arts 303.
308. **Advanced Metal Working Processes. (2-4-4)** W, S. Special areas of metal work involving metal casting, tool and cutter grinding, chipless machining processes, numerical control, and equipment selection. Prerequisite: Industrial Arts 306.
310. **Forming and Fabricating of Sheet Materials. (2-4-4)** F. Design layout, forming and fabricating sheet materials. Prerequisite: Industrial Arts 106.
312. **Letterpress Printing. (2-4-4)** F. Imposition and lockup, makeready, and image transfer for hand and automatic platen and cylinder equipment. Prerequisite: Industrial Arts 111.
313. **Graphic Arts Technology. (4-0-4)** F. Production of books, magazines, newspapers. Computer implications for typesetting, quality control, inventory, personnel. Prerequisite: Industrial Arts 111.
315. **Graphic Arts for Journalists. (2-4-4)** S. Graphic arts procedures and allied industries. Emphasis on materials, equipment, and processes.
321. **Woodfinishing. (2-3-2)** F. Preparation of wood for finish. Applying finish by various methods.
322. **Woodturning. (1-3-2) (Omitted 1971-72)** Operation and care of wood lathes; spindle and faceplate turning. Prerequisite: Industrial Arts 323.
323. **Production Wood Technology. (2-4-4)** Su, S. Furniture and cabinet making with woodwork machines. Prerequisites: Industrial Arts 101, 222, and 321. The student pays for materials used in this course.

331. **Electrical and Chemical Power. (4-0-4) W.** Sources of electrical and chemical power. Batteries, electrical motors, electrical generators, fuel cells, nuclear and solar power. Prerequisites: Industrial Arts 116 and 132.
340. **Methods of Teaching Industrial Arts. (4-0-4) F, W, S.** Prerequisites: Six industrial arts laboratory courses. Admission to teacher education and junior standing.
405. **Graphical Industrial Illustration. (3-3-4) F.** Prerequisite: Proficiency in Industrial Arts 101.
409. **Welding Technology. (2-4-4) S.** Welding techniques involving oxy-acetylene and electric arc equipment. Prerequisite: Industrial Arts 106.
412. **Offset Ink Transfer. (2-4-4) S.** Feeding, dampening, inking, impression and delivery systems. Color image transfer, instrumentation. Prerequisite: Industrial Arts 212 or concurrent enrollment.
421. **Restoration of Antique Furniture. (2-4-4) F.** Prerequisite: Industrial Arts 222 or permission of instructor.
422. **Mass Fabrication in Woods. (2-4-4) S.** Prerequisite: Industrial Arts 222.
423. **Tool Maintenance. (1-3-2) F.** Reconditioning toothed, sharp edge, boring tools, and machines. Prerequisite: Industrial Arts 323.
- 447, 448. **Independent Study. (Arr.-Arr.-4 each course)** Technical investigation involving experimental laboratory work. Prerequisites: A minimum of five courses in area of study. Instructor approval of study necessary before registration for course. Industrial Arts major or senior standing.

COURSES OPEN TO JUNIORS, SENIORS, AND GRADUATE STUDENTS

453. **Applied Descriptive Geometry. (4-0-4) S.** Prerequisite: Industrial Arts 101.
461. **Photo-Conversion Procedures. (4-Arr.-4) W.** Black-and-white and color copy preparation, photo-conversion, and film processing; instrumentation, quality control. Prerequisite: Industrial Arts 212 or permission of instructor.
- 490 (491, 492). **Task Analysis and Course Outline. (4-0-4) W.** Study of the techniques of analyzing occupation with specific components and the development of course outline for instructional program.
- 493 (451). **Organization of Subject Matter. (Arr.-Arr.-4)** Advanced work in the preparation of instructional material. Prerequisite: Industrial Arts 340.
- 495 (492, 560). **Student Achievement and Program Evaluation. (4-0-4) Su, W.**

GRADUATE COURSES

(Courses numbered 500-549 inclusive may be taken by a senior whose grade point average is 3.0 or higher, with permission of the instructor and the Dean of the Graduate School. Courses numbered 550 and above are open only to graduate students.)

505. **Occupational Cooperative Education. (Arr.-Arr.-4) Su.** A study of part-time, on-the-job education utilizing the resources of the community and the school. Team teaching in Business Education, Education, Health Education, Home Economics, and Industrial Arts. A student may take the course for credit in only one of the departments.
506. **Administration and Supervision of Occupational Education. (Arr.-Arr.-4) Su.** To prepare personnel for administering and supervising occupational education programs. Team teaching in Business Education, Education, Health Education, Home Economics, and Industrial Arts. A student may take the course for credit in only one of the departments.



- 507, 508, 509. **Seminar in Occupational Education.** (Arr.-Arr.-4 each course) **Su.** Intensive study of contemporary problems, issues, trends and developments in occupational education and technology. Offered in Business Education, Education, Health Education, Home Economics, and Industrial Arts. A student may take each course for credit in only one of the departments.
550. **Graphic Arts in a Changing Culture.** (4-0-4) **W.** Graphic arts from an art to a technology. Emphasis upon incunabula period. Credit applicable only to the Group III requirement for the degree M.S. in Ed.
565. **History and Philosophy of Industrial Education.** (4-0-4) **Su, S.**
572. **Innovations in Industrial Education.** (4-0-4) **F.** Charting the changing directions in industrial education today.
- 575, 576. **Professional Research in Industrial Arts.** (Arr.-Arr.-4 each course.)
580. **Facility Planning in Occupational Education.** (2-4-4) (Omitted 1971-72)
595. **Thesis.** (Arr.-Arr.-4)

INDUSTRIAL TECHNOLOGY

304. **Engineering Geometry and Graphics.** (3-3-4) **W.** Advanced spatial geometry; parallel, angular and perpendicular relationship; graphical calculus; empirical equations; plane and space vectors. Prerequisites: Proficiency in Industrial Arts 101, Mathematics 134.
305. **Light Building Surveying.** (0-4-2) **W.** Introduction to transits, levels, measuring tools and equipment. Field work in location, elevation, and land surveys. Prerequisites: Proficiency in Industrial Arts 101, Mathematics 131.
316. **Communications Circuits and Systems.** (2-4-4) **F.** Functional application of electronic power supplies, audio amplifiers, transmitters and receivers. Prerequisite: Industrial Arts 216 or 217.
370. **Industrial Mechanisms.** (2-4-4) **F.** Mechanics of machinery, gearing, belting, cam, hydraulic, and pneumatic power transmitting systems. Prerequisites: Physics 130 and Mathematics 131.
- 390, 391. **Internship in Industry.** (Arr.-Arr.-4 each course) Employment experience in some phase of production manufacturing related to the student's option. These courses may be taken only under the pass/fail option. Prerequisites: Permission of the Head of the Department of Industrial Technology. Junior standing.
400. **Applied Strength of Materials.** (2-4-4) **F.** Experimental analysis of mechanical properties of industrial materials. Inspection instruments and procedures. Prerequisites: Mathematics 134; Industrial Arts 306, 222 and 116; Physics 132.
401. **Office Practice and Specifications.** (2-0-2) **S.** Light building construction office management procedures involving design, personnel, specifications and fabrications.
402. **Cost Estimating.** (2-0-2) **S.** Procedures in estimating material, labor and fabrication costs in light building construction. Prerequisites: Industrial Arts 301, 302.
404. **Statistical Quality Assurance.** (2-4-4) **S.** Prerequisites: Mathematics 134, Industrial Arts 306 and Industrial Technology 400.
416. **Industrial Electronics.** (2-4-4) **W.** Electronic control of temperature, sound, light, humidity, fluid, time. Prerequisite: Industrial Technology 316.
417. **Instrumentation and Control.** (2-4-4) **S.** Measurement processes, basic tests, characteristics and capabilities of electronic instruments. Prerequisite: Industrial Arts 116.

424. **Light Building Fabrication. (3-2-4) F.** Methods, materials, and procedures in light building construction. Prerequisites: Industrial Arts 222, 302.

COURSES OPEN TO JUNIORS, SENIORS, AND GRADUATE STUDENTS

460. **Physical Metallurgy. (2-4-4) F.** Prerequisite: Industrial Technology 400.
464. **Principles of Metal Casting. (2-4-4) W.** Control and prevention of casting defects, sand conditioning, and control, melting and pouring techniques. Prerequisite: Industrial Arts 307 or 308.

JOURNALISM (Taught in the Department of English)

UNDERGRADUATE COURSES

210. **Introduction to Journalism. (4-0-4) F, S.** The historical development in America of the mass media, with emphasis on the newspaper; the mechanics, the craft, and the ethics of journalism.
211. **Beginning Reporting. (4-0-4) F, S.** Principles of gathering and writing news, with practice in the classroom.
212. **Beginning Reporting II. (4-0-4) W.** Techniques of reporting are stressed, with practice in the classroom and on the Eastern News. Reporting of specialized stories is introduced. Prerequisite: Journalism 211.
310. **News Editing and Make-Up. (4-0-4) F.** Editing the news, with attention to headwriting and newspaper makeup and design. Editing of newspaper photography is also discussed. Prerequisite: Journalism 212.
311. **Advanced Reporting. (4-0-4) W.** Advanced types of news investigation and treatment; practical experience on a commercial newspaper. Writing of editorials. Prerequisite: Journalism 310.
312. **Feature Writing. (4-0-4) W, S.** Newspaper features and magazine articles. Study of markets, selection and investigation of subjects, organization and preparation of articles.

COURSES OPEN TO JUNIORS, SENIORS, AND GRADUATE STUDENTS

460. **Supervision of High School Publications. (4-0-4) Su.** Problems for advisors to high school publications; staff recruitment, staff-faculty relationships, production problems, and editorial judgments.

LATIN (See Foreign Languages)

LIBRARY SCIENCE

(The undergraduate minor consists of twenty-eight quarter hours.

Junior standing is a prerequisite for beginning the minor. The study of Library Science and Audio-Visual Education can be combined to meet the new requirements for school personnel employed as media specialists. Those interested in the media area should work out their programs with the Department Head.)

UNDERGRADUATE COURSES

320. **The School Library Materials Center. (4-0-4)** The services and administration of the school library materials center.

330. **Literature for Children.** (4-0-4) Su, F, W. Types of resources best suited to children of grades 1 through 6. Reading and evaluation of materials.
332. **Literature for Young People.** (4-0-4) Types of resources best suited for adolescents. Reading and evaluation of materials.
- 449 (490). **Observation and Practice.** (4-0-4) Practical experience in library work with special emphasis on service to the public. Weekly seminars are held. Prerequisites: At least four Library Science courses including 450, 460, and 470.

COURSES OPEN TO JUNIORS, SENIORS, AND GRADUATE STUDENTS

450. **Reference Materials and Services.** (4-0-4) Su, F, S. Introduction to general and specialized sources of information: their content, evaluation, and use.
460. **Selection of Library Materials.** (4-0-4) Su, F, W. Principles and practices related to selecting and acquiring all types of library materials.
- 470 (430). **Organization of Library Materials.** (4-0-4) Su, F, S. Principles and techniques of cataloging, classification, and the assigning of subject headings with practical application to books and other materials.

GRADUATE COURSES

(Courses numbered 500-549 inclusive may be taken by a senior whose grade point average is 3.0 or higher, with permission of the instructor and the Dean of the Graduate School. Courses numbered 550 and above are open only to graduate students.)

For students working toward the Master of Science Degree in Library Science: A strong undergraduate background of general education is recommended; undergraduate preparation in Library Science is not required. A reading knowledge of one foreign language will be required of all graduate students.

510. **History of Libraries.** (4-0-4) Su, S. Study of the development of the library as an institution.
520. **Library Administration.** (4-0-4) Su, W. Principles of administration with practical application to the management of libraries. Prerequisites: Library Science 450, 460, 470.
560. **Organization of Information and Library Materials.** (4-0-4) F. Advanced study of information systems and library catalogs; history, preparation, evaluation, management and use. Prerequisites: Library Science 450, 470.
561. **Introduction to Library Research.** (4-0-4) F. A study of the introductory methods of research in the field of Library Science. Prerequisites: Library Science 450, 460, 470.
571. **Social Science Literature.** (4-0-4) Su, S. Intensive study of information sources in sociology, geography, psychology, economics, anthropology, history, and political science. Prerequisites: Library Science 450, 460.
572. **Literature of the Humanities.** (4-0-4) W. Intensive study of information sources in religion, philosophy, music, art, literature, and language. Prerequisites: Library Science 450, 460.
573. **Literature of Science and Technology.** (4-0-4) F. Intensive study of information sources in science and technology. Prerequisites: Library Science 450, 460.
585. **School Library Problems.** (4-0-4) Su, W. Examination of current trends, problems, and research relating to school libraries and media centers.
586. **Mechanization of Library Operations.** (4-0-4) S. Survey and demonstration of machine applications in library operations. Prerequisites: Library Science 460, 470, 560.
595. **Thesis.** (Arr.-Arr.-4)

LIFE SCIENCE

UNDERGRADUATE COURSES

100. **Introductory Life Science. (2-4-4)** A study of the fundamental processes and structures common to all living things. This course is prerequisite to all botany and zoology courses.
201. **Environmental Biology. (4-0-4)** A study of the components of the physical and biological environment, the Ecology of Mankind, man's effect on the environment, the effect of the environment upon man, current problems and their possible solutions. Prerequisites: Life Science 100 and Botany 101 or Zoology 101.
340. **Methods of Teaching Biological Science in High School. (4-0-4)** The collection and use of materials for demonstration and laboratory experiments are stressed. Prerequisite: Admission to teacher education and junior standing.
341. **Methods of Teaching Biological Science in High School. (2-0-2) F.** The collection and use of materials for demonstration and laboratory experiments are stressed. Prerequisite: Admission to teacher education and junior standing. Enrollment is restricted to students with a minor or a field of specialization in life science (botany, zoology or biological science) who do not have credit for Life Science 340.

MANAGEMENT

141. **Business Correspondence. (4-0-4)** Practice in formulation and communication of business information. Prerequisite: Business Education 110 or equivalent.
142. **Introduction to Business. (4-0-4)** The general nature and functions of the business enterprise in society.
- 230 (330). **Data Processing for Business. (4-0-4)** Modern information processing systems and equipment, includes electronic computers and punched card systems. Prerequisite: Sophomore standing.
231. **Computer Programming for Business. (4-0-4)** Analysis of several high-level programming languages and software systems. Problems and related business applications are programmed. Prerequisite: Management 230.
251. **Principles of Management. (4-0-4)** Fundamentals of management; objectives, policies, functions, leadership, organization structure and operational procedure.
331. **Data Processing Systems for Business. (4-0-4) F, W, S.** The structure and development of manual, mechanical, and electronic information handling systems. Prerequisite: Management 230; Management 231 also recommended.
332. **Computer File Organization and Management Methods. (4-0-4) Su, W.** The universal data base used with modern computer systems. Includes file organization, maintenance, retrieval, and security. Prerequisite: Management 230 and junior standing.
333. **Real-Time Business Systems. (4-0-4) S.** A study of the process of integrating the computer based, file-oriented business system into its operational environment. Prerequisite: Management 332 and junior standing.
345. **Personnel Management. (4-0-4)** Objectives, functions, and organization of a typical personnel program. Problems in personnel administration. Prerequisite: Management 251 or permission of Head of Department of Management.
346. **Business Law. (4-0-4)** Introduction to law; contracts; agency and employment; commercial papers; personal property and bailments. Prerequisite: Junior standing.
347. **Business Law. (4-0-4)** Sales of goods; partnerships; corporations; real property and leases; insurance; security devices; bankruptcy; trusts and estates. Prerequisite: Management 346.

370. **Principles of Financial Management.** (4-0-4) Financial organizations in the American economy.
- 371 (482). **Corporation Finance.** (4-0-4) Methods of financing large and small business corporations. The corporation, investor and society considered. Prerequisite: Management 370.
- 372 (380). **Investments.** (4-0-4) F, S. Study of the mechanics of investment analysis. Selection of securities for portfolios with emphasis on personal investing. Prerequisite: Accounting 230, Economics 255, or permission of the instructor.
381. **Business Statistics I.** (4-0-4) Provides a working knowledge of the statistical tools used in analysing business problems. Not open to students who have completed an introductory statistics course.
- 382 (384). **Business Statistics II.** (4-0-4) Su, W, S. Extension of the range of topics covered in Business Statistics I. Prerequisite: Management 381.
383. **Business Report Writing.** (4-0-4) The organization and preparation of research oriented reports used in business and technical communications. Study of actual reports. Prerequisite: Junior standing.
- 390 (480). **Principles of Insurance.** (4-0-4) F, S. Risks to which man and property are subject, including life, property, and casualty insurance.
420. **Security Analysis.** (4-0-4) Su, W. A case and problem approach—including investment policies, practices, and analysis of direct and indirect investments. Prerequisite: Management 372.
430. **Data Processing Laboratory.** (Arr.-Arr.-4) Processing of information by using punched card equipment and the computer. Individual projects. Prerequisite: Management 230 and permission of the Head of the Department of Management.
434. **Production Management.** (4-0-4) F, S. Management of manufacturing enterprises. Includes plant location, plant layout, production processes, and production control systems. Prerequisite: Management 251.
435. **Motion and Time Study.** (4-0-4) Su, W. Study of work methods, design and principles of motion and time economy. Prerequisite: Management 251, 434.
436. **Managerial Decision Making.** (4-0-4) Decision making in a simulated dynamic, competitive industry. Prerequisite: Management 251.
437. **Job Evaluation.** (4-0-4) W. Analysis of the methods and techniques used in evaluating jobs. Problems of wage and salary structure. Prerequisite: Management 251 and 345.
438. **Labor Law.** (4-0-4) S. Labor problems arising from activities, jurisdiction, and remedies of labor organizations. Prerequisite: Management 347.
439. **Real Estate.** (4-0-4) W. A study of theory and practice in real estate, with social and economic implications. Prerequisite: Management 347.
445. **Collective Bargaining.** (4-0-4) S. Deals with the role played by management and labor representatives in the collective bargaining process. Prerequisite: Management 347.
490. **Internship in Management.** (Arr.-Arr.-4) Employment experience in a phase of management for one quarter, in a firm approved by the Head of the Department of Management. Prerequisite: Permission of the Head of the Department of Management and acceptance of the student by a business firm on the basis of the student's application.

COURSES OPEN TO JUNIORS, SENIORS, AND GRADUATE STUDENTS

458. **Case Problems in Business Law.** (4-0-4) Su, S. Case problems approach to the various topics in the field of business law. Prerequisite: Management 347 or the equivalent.

- 461. **Management of Data Processing. (4-0-4)** S. Planning, controlling, evaluation, budgeting for, and protecting the data processing functions, equipment, and personnel. Prerequisite: Management 331.
- 483. **Current Problems in Finance. (4-0-4)** S. A survey of current literature in finance with a seminar approach in discussing present problems and developments. Prerequisites: Management 371 and 372.
- 484. **Commercial Banking. (4-0-4)** W. The organization and management of commercial banks, functions, departments, personnel, policies. The contribution of the modern commercial bank to the community. Prerequisites: Accounting 230 and Economics 255.
- 498. **Independent Study. (Arr.-Arr.-4)** Individual study programs under direction of department head. Prerequisites: Senior standing and permission of Head of Department of Management.

MARKETING

- 247. **Principles of Marketing. (4-0-4)** Marketing channels; marketing functions and institutions; methods in marketing agricultural products, raw materials and manufactured goods. Prerequisite: Economics 255.
- 348 (248). **Principles of Salesmanship. (4-0-4)** The psychology of salesmanship as it relates to the planning and execution of a sale; principles of general selling.
- 349 (249). **Principles of Retailing. (4-0-4)** The organization and management of retail stores; location, layout, financing, buying, pricing, credits and collections, stock control, personnel work. Prerequisite: Marketing 247 and Accounting 230.
- 350 (250). **Principles of Advertising. (4-0-4)** Social and economic aspects of advertising; kinds of advertising; selection of media; costs; analysis of copy and displays; format; layout; slogans; campaigns. Prerequisite: Marketing 247.
- 370. **Credit Management. (4-0-4)** Consumer and commercial credit and collection practices and policies in business organization. Organization and operation of credit departments. Prerequisite: Accounting 230, Economics 256, or permission of the instructor.
- 372. **Consumer Behavior and Motivation. (4-0-4)** W, S. A study of the identification and understanding of consumer behavior and the forces underlying that behavior which affect marketing decisions. Prerequisites: Marketing 247; eight quarter hours in sociology and/or psychology; four quarter hours in economics; junior standing.
- 449. **International Marketing. (4-0-4)** W. An introduction to foreign trade with emphasis on international marketing institutions, cooperation, and technical features of overseas operations. Prerequisites: Marketing 247 and Economics 256.
- 490. **Internship in Marketing. (Arr.-Arr.-4)** Employment experience in some phase of marketing for one quarter, in a firm approved by the Head of the Department of Marketing. Prerequisite: Permission of the Head of the Department of Marketing and acceptance of the student by a business firm on the basis of the student's application.

COURSES OPEN TO JUNIORS, SENIORS, AND GRADUATE STUDENTS

- 471 (371). **Materials Management. (4-0-4)** F, S. The acquisition, control and utilization of materials in industrial operations. Deals with the nature of procurement, inventory control and value analysis. Prerequisites: Marketing 247, Management 251 and Economics 256.
- 474. **Advertising Management. (4-0-4)** W. Application of the management functions to advertising. Prerequisites: Management 251 and Marketing 350.

476. **Transportation Management. (4-0-4)** F, S. Transportation facilities and their historical development; comparison of alternative services; transport costs, rates and routes; shipping documents. Prerequisites: Marketing 247 and Management 251.
486. **Marketing Research. (4-0-4)** Nature and scope of marketing research; scientific method and research designs; specific marketing research procedures; research report and follow-up. Problems. Prerequisite: Marketing 247, and Management 381 or its equivalent.
487. **Market Management Problems. (4-0-4)** Marketing problems encountered by businesses that find it necessary to adapt marketing organization and policy to changing economic conditions. Prerequisites: Accounting 232, Marketing 247, and Management 251.
498. **Independent Study. (Arr.-Arr.-4)** The student will be assigned material from literature of marketing. A written formal report based upon these readings must be submitted. Prerequisite: Senior standing with strong scholarship as evidenced by cumulative grade point average; permission of the Head of the Department of Marketing.

MATHEMATICS

Notes: In planning student programs it is important to check the course prerequisites as listed with the course descriptions below. "College preparatory mathematics," as used here, includes high school courses in algebra, geometry, and trigonometry and modern courses which integrate these subjects; it does not include "general mathematics," "consumer mathematics," "shop mathematics," etc.

Programmed materials and tutoring service are available in the mathematics office for students who may wish to review high school mathematics before enrolling in Mathematics 129 or 130.

Students with less than two units of college preparatory mathematics may satisfy the general requirements in mathematics by taking Mathematics 125 if 4 quarter hours are required, Mathematics 125 and 126 if 8 quarter hours are required. Students with a background of two or more units of college preparatory mathematics are expected to take courses numbered 129 or higher to satisfy general requirements.

Courses in the Department of Mathematics are designed to serve the following purposes: (1) to contribute to the development of an informed citizenry; (2) to provide specific skills and knowledge of the discipline for those who plan to pursue careers in teaching mathematics or industry; and (3) to provide the background for graduate study. Students interested in doing graduate work in pure mathematics or working as mathematicians in industry are advised to pursue a B.S. or B.A. degree. For mathematics majors college-level work presupposes two years of algebra, one year of geometry, and one-half year of trigonometry in high school. Students without trigonometry should begin with Mathematics 130, provided they have had at least one year of algebra and one year of geometry.

Students with a background of three or more units of college preparatory mathematics including trigonometry are required to take the mathematics department placement test before enrolling in Mathematics 130.

UNDERGRADUATE COURSES

122. **Numerals and Numbers I. (3-0-3)** Concepts of numeration and number systems, sets, mathematical systems, natural numbers, integers, and modular arithmetic. Restricted to students in the curriculum for elementary and junior high school who do not meet the prerequisites for Mathematics 222.
123. **Numerals and Numbers II. (3-0-3)** A continuation of Mathematics 122. Mathematical systems; rational and real numbers; complex numbers. Prerequisite: Mathematics 122.
125. **Elementary Mathematics. (4-0-4)** A modern approach to selected units of arithmetic, algebra and geometry. Not open to mathematics majors or minors.

126. **Elementary Mathematics. (4-0-4)** Modern topics in elementary algebra including logarithms and trigonometry. Not open to students with credit in Mathematics 130 or above. Prerequisite: Mathematics 125.
128. **Elements of Algebra. (4-0-4)** Su, F, W. Fundamental concepts of algebra. Not open to any student whose curriculum requires Mathematics 134.
129. **Algebra. (4-0-4)** Concepts taught in Mathematics 128 from a more advanced point of view. Credit is not given for both Mathematics 129 and 130. Prerequisite: Mathematics 128 or satisfactory score on the Mathematics Placement Test.
130. **Algebra. (4-0-4)** Basic algebraic manipulations, elementary functions, and solutions of equations and inequalities. Credit is not given for both Mathematics 129 and 130. Prerequisite: Two years of college preparatory mathematics.
131. **Trigonometry. (4-0-4)** Trigonometric functions, their properties and applications; complex numbers and polynomials. Prerequisite: Mathematics 130.
132. **Elementary Functions. (4-0-4)** F, W. The combined material of 130 and 131. Prerequisite: Three years of college preparatory mathematics and satisfactory placement test score. Not offered for credit for those who have credit for Mathematics 130 or 131.
134. **Analytic Geometry. (4-0-4)** Coordinate systems, straight lines, conic sections, polar and parametric forms; curve sketching techniques. Vector approach is used. Prerequisite: Mathematics 131, or 132, or three years of college preparatory mathematics including trigonometry, and satisfactory placement test score.
135. **Calculus. (4-0-4)** A review of elementary topics followed by the study of limits, continuity, derivatives and the applications of these concepts. Prerequisite: Mathematics 134.
210. **Finite Mathematics. (4-0-4)** Su, W, S. Elementary set theory, partitions and counting, probability, vectors and matrices. Applications selected from business and social science. Prerequisite: Mathematics 129, or satisfactory score on Mathematics Placement Test. Not open to mathematics majors or minors.
211. **Mathematics Analysis. (4-0-4)** Su, W, S. Polynomial calculus including derivatives and integrals of functions of a single variable, with applications. Prerequisite: Mathematics 210. Not open to students enrolled in a curriculum which includes Mathematics 135 or Mathematics 234.
222. **Numerals and Numbers III. (4-0-4)** F, W. Elementary mathematics of real numbers presented from an advanced point of view. Not open to students with credit in Mathematics 123. Prerequisites: Three years of mathematics in high school, and an ACT mathematics score above the 75th percentile based on college bound norms; or permission of instructor. Enrollment in the curriculum for elementary or junior high school teachers.
225. **An Introduction to College Mathematics. (4-0-4)** S. Numeral systems; the natural number system; the computation algorithms; rules of inference; sets, relations, functions; introduction to groups and fields.
231. **Introduction to Algorithmic Methods. (4-0-4)** The application of procedure-oriented computer languages (FORTRAN, SNOBOL) to both numeric and non-numeric algorithms. Not open to freshmen.
232. **Introduction to Computer Programming. (1-0-1)** Computer programming in FORTRAN. Not open to freshmen.
234. **Analytic Geometry and Calculus. (4-0-4)** S. A review of analytic geometry. The calculus of polynomials with special emphasis on applications. Prerequisite: Mathematics 134. No credit toward graduation if student has credit for Mathematics 135 or its equivalent. Not open to students enrolled in a curriculum which includes Mathematics 135.
- 235, 236, 237. **Calculus. (4-0-4 each course)** The study of the definite and indefinite integral with applications, vector analysis, partial differentiation, multiple integration and infinite series. Prerequisite: Mathematics 135; to be taken in sequence.

320. **Mathematics in Grades K-3. (2-0-2)** Methods and materials for teaching mathematics in grades K-3. Open only to prospective elementary school teachers. Prerequisite: Mathematics 322.
321. **Mathematics in Grades 4-6. (2-0-2)** Methods and materials for teaching mathematics in grades 4-6. Open only to prospective elementary school teachers. Prerequisite: Mathematics 322.
322. **Algebra and Geometry I. (4-0-4)** The organization and structure of algebraic and geometric models. Study of such systems from an advanced point of view. Prerequisite: Mathematics 222; or Mathematics 122 and 123. May not be taken concurrently.
327. **College Geometry I. (4-0-4)** A review of elementary geometry. The foundations of geometry. Euclidean geometry from a modern point of view. Prerequisite: Mathematics 134.
328. **College Geometry II. (4-0-4)** F, W, S. A formal development of Euclidean geometry from a modern point of view. Selected topics in advanced Euclidean geometry. Prerequisite: Mathematics 327.
340. **Teaching Mathematics. (4-0-4)** Methods and materials for teaching mathematics in grades 9-12. Prerequisites: Education 333, Mathematics 237, 327, 353; or permission of department head. Admission to teacher education and third quarter junior standing.
341. **Teaching Secondary Mathematics. (2-0-2)** W, S. The use of methods and materials for the teaching of mathematics in grades 9-12. Prerequisites: Education 333; Mathematics 237, 327, 353; or permission of instructor. Not open to students with credit in Mathematics 340 or to mathematics majors.
344. **Linear Algebra. (4-0-4)** Vector spaces; the algebra of matrices; application to systems of linear equations, linear transformations, transformation of coordinate axes. Prerequisite: Mathematics 353 or permission of the instructor.
350. **Differential Equations. (4-0-4)** F, W, S. Formal solutions of ordinary differential equations; a critical analysis of some elementary types; envelopes, trajectories, singular solutions, applications. Prerequisite: Mathematics 237.
351. **Differential Equations. (4-0-4)** W, S. Systems of differential equations, series solutions, approximations to solutions. Laplace Transformations, partial differential equations, boundary value problems. Prerequisite: Mathematics 350.
- 353, 354. **Modern Algebra I and II. (4-0-4 each course)** 354-W, S. An introduction to modern algebra including: operations and relations, mappings, groups, rings, integral domains, fields. Prerequisite: Mathematics 235; to be taken in sequence.
357. **Numerical Calculus. (4-0-4)** S. Construction of algorithms for interpolation, quadrature, solution of equations and systems, solution of ordinary differential equations. Prerequisites: Mathematics 231 and 237.
367. **Computers and Programming. (4-0-4)** W. Computer structure, data representation, instruction sets, semantics and syntax of assembly language programming, system macros, programmer macros, subroutines, Iverson notation. Prerequisite: Mathematics 231 or permission of the instructor.
449. **Mathematics Seminar. (4-0-4)** S. Study of special topics in mathematics from algebra, analysis, geometry, number theory and statistics. Prerequisite: Permission of the instructor.

COURSES OPEN TO JUNIORS, SENIORS, AND GRADUATE STUDENTS

455. **Linear Algebra II. (4-0-4)** Su, W. Vector spaces, linear transformations, and dual spaces, invariant directsum decompositions, jordan form, inner product spaces. Prerequisites: Mathematics 344, 353, or permission of instructor.
458. **An Introduction to Differential Geometry. (4-0-4)** Su. The Euclidean space-functions, transformations, differential fields and forms, and study of curves in Euclidean space. Prerequisite: Mathematics 237.

- 460, 461. Advanced Calculus. (4-0-4 each course)** 460-Su, F, W. 461-F, S. A study of limits, continuity, differentiability and integrability of functions; vectors; implicit functions; line and surface integrals. Prerequisite: Mathematics 237. To be taken in sequence.
- 470, 471. Probability and Statistics I & II. (4-0-4 each course)** Basic concepts of probability and statistics. Prerequisite: Mathematics 236; to be taken in sequence.
- 480. Mathematics of Finance. (4-0-4) (Omitted 1971-72)** Application of mathematics to such topics as simple and compound interest, discount, annuities, capitalization, depreciation, and insurance. Prerequisite: Mathematics 131.
- 482. Algebra and Geometry II. (4-0-4) Su.** The study of algebraic structure and informal geometry in elementary mathematics. Prerequisites: Enrollment in the curriculum for elementary teachers. Mathematics 322; or permission of the instructor.
- 485. New Units in High School Mathematics. (4-0-4) Su.** Investigation of basic mathematical concepts in selected new programs in high school mathematics. Prerequisites: Mathematics 237, 327, 353, or permission of instructor. May be taken concurrently with Mathematics 353. Credit given only to mathematics majors in teacher education.
- 490. History of Mathematics. (4-0-4) Su.** The Ancient Orient. The period of Ancient Greece. The Hellenistic period. Seventeenth to nineteenth century A.D. The beginnings of Modern Mathematics. Prerequisite: Mathematics 134; or permission of the instructor.
- 491. Number Theory. (4-0-4) Su.** Divisibility, primes, congruences, solution of congruences, power residues, quadratic reciprocity, numerical functions, diophantine equations. Prerequisite: Mathematics 353.

GRADUATE COURSES

(Courses numbered 500-549 inclusive may be taken by a senior whose grade point average is 3.0 or higher, with permission of the instructor and the Dean of the Graduate School. Courses numbered 550 and above are open only to graduate students.)

- 505. Numerical Analysis. (4-0-4) W.** Rounding errors, difference equations, solutions of equations and systems of equations, interpolation, numerical differentiation. Prerequisites: Mathematics 231 or 507; and Mathematics 350.
- 507. Digital Computer Techniques. (4-0-4) Su, F.** Programming techniques in the application of procedure-oriented languages to numeric and non-numeric algorithms. Prerequisite: Mathematics 237 or permission of the instructor.
- 508. Intermediate Computer Programming. (4-0-4) S.** The structure and syntax of ALGOL. Selective topics in computer science. Prerequisite: Mathematics 231, or Mathematics 507, or permission of the instructor.
- 510, 511, 512. Modern Algebra. (4-0-4 each course)** 510-F. 511-W. 512-S. Groups. Rings. Fields. Galois theory. Prerequisite: Mathematics 344 and 353 or permission of the instructor.
- 515. Probability. (4-0-4) F.** Elementary and general probability spaces. Random variables, multivariate distributions and the algebra of expectations. Prerequisite: Mathematics 237.
- 516, 517. Mathematical Statistics. (4-0-4 each course)** 516-Su, W. 517-S. Random sampling, the law of large numbers, confidence intervals, regression, sampling from a normal population and testing hypotheses. Prerequisite: Mathematics 515 or permission of instructor; to be taken in sequence.
- 520, 521. Higher Geometry. (4-0-4 each course) (Omitted 1971-72)** A selection of topics from projective geometry, differential geometry, non-Euclidean geometries. Prerequisite: Mathematics 344 or permission of the instructor.
- 522. Topology. (4-0-4) Su, F.** Metric spaces. Topological spaces. Connectedness. Compactness. Prerequisite: Mathematics 460, or permission of the instructor.

- 530, 531, 532. **Real Variables.** (4-0-4 each course) 530-W; 531-S; 532 (Omitted 1971-72) Set theory. Cardinal numbers. Real numbers. Measure. Measurable sets. Lebesgue and Riemann integrals. The fundamental theorem of the calculus. Prerequisite: Mathematics 461, or permission of the instructor.
- 533, 534, 535. **Complex Variables.** (4-0-4 each course) (Omitted 1971-72) Complex numbers; analytic functions; conformal mapping; complex integration; series and products; elliptic functions; analytic continuation. Prerequisite: Mathematics 461, or permission of the instructor.
540. **The Teaching of Arithmetic in the Primary and Intermediate Grades.** (4-0-4) Su, W. The techniques, methods, and materials used in teaching the concepts and skills of arithmetic in grades one through six. Prerequisite: Enrollment in the curriculum for elementary teachers. Mathematics 482 or permission of the instructor.
541. **The Teaching of Mathematics in Grades 7-9.** (4-0-4) Su. The techniques, methods and materials used in teaching mathematics in grades seven, eight, and nine. Prerequisite: Two years of experience teaching in secondary schools.
- 545, 546, 547. **Independent Study in Mathematics.** (4-0-4 each course) Advanced work on a topic or problem selected by the student, subject to the approval of his advisor. Prerequisite: Twelve quarter hours of credit in graduate level mathematics.
550. **Mathematics in Modern Education and Life.** (4-0-4) Su. The subject matter of elementary mathematics, its role in the development of civilization, and its role in the public school curriculum. Credit applicable only to the Group III requirement for the degree M.S. in Ed.
553. **Statistical and Computational Techniques.** (4-0-4) Su, S. Statistical methods including tests of hypotheses. Computation techniques and computer programming using FORTRAN. Not open to students with a major in mathematics.
570. **Problems in the Teaching of Secondary Mathematics.** (4-0-4) (Omitted 1971-72) Study of problems which arise in teaching secondary mathematics; research in mathematics education; assigned readings; reports. Prerequisite: Two years of experience teaching in secondary schools.
595. **Thesis.** (Arr.-Arr.-4)
610. **Groups.** (4-0-4) (Omitted 1971-72) Preliminaries, abelian groups, P-groups, permutation groups, group extensions, representation theory. Prerequisite: Mathematics 512.
611. **Rings and Fields.** (4-0-4) (Omitted 1971-72) Field theory, galois theory, ideal theory, ring theory. Prerequisite: Mathematics 610.
612. **Topological Groups.** (4-0-4) (Omitted 1971-72) Topological groups, homomorphisms of topological groups, direct products, local properties of topological groups, locally compact topological groups. Prerequisites: Mathematics 512 and 522.
620. **Differential Geometry I.** (4-0-4) W. The classical theory of curves and surfaces in three dimensional Euclidean space. Prerequisites: Mathematics 237 and 344.
621. **Differential Geometry II.** (4-0-4) S. Differentiable manifolds and tensors. Application to differential geometry of curves and surfaces. Riemannian geometry of dimension 2. Non-Euclidean geometries. Prerequisites: Mathematics 350 and 620.
622. **Introduction to Differentiable Manifolds.** (4-0-4) (Omitted 1971-72) Introduction to the notions of differentiable manifolds. Fiber bundles and lie groups. Prerequisites: Mathematics 351, 522, and 621.
623. **Algebraic Topology I.** (4-0-4) W. Introduction to homology theory. Complexes, homology and cohomology groups, topological invariance of homology properties. Prerequisites: Mathematics 510 and 522.
624. **Algebraic Topology II.** (4-0-4) S. Introduction to the homotopy theory. Manifolds, spheres, Poincare and Alexander. Duality theorems, the fundamental group, covering complexes. Prerequisite: Mathematics 623.

School of Music

The School of Music is a member of the National Association of Schools of Music. Membership in this Association is granted to schools which can show evidence of permanence and stability and which meet in full the standards of the Association for all the music curricula offered by the institution. The School of Music is also fully accredited by the North Central Association of Colleges and Secondary Schools and the National Council for the Accreditation of Teacher Education.

AUDITIONS

All new undergraduate students planning to elect a major in music are required to demonstrate sufficient ability in a performing area either by audition in person or by tape recording in advance of registration or during the registration period. All transfer students should take the advisory-orientation examination in music theory. See the Dean of the School of Music.

Note: Undergraduate courses in music are classified for curriculum selection as follows:

Studies in Performance and Composition (Applied Music): 001, 002, 003, 004, 005, 006, 007, 008, 009, 010, 011, 012, 013, 014, 015, 016, 017, 018, 019, 020, 021, 126, 127, 128, 136, 137, 138, 146, 147, 148, 200, 201, 203, 204, 205, 226, 227, 228, 236, 237, 238, 246, 247, 248, 255, 260, 355, 360

Music Ensembles: 103, 250, 251, 252, 253, 301, 372, 401

Music Theory and Composition: 021, 120, 130, 131, 132, 221, 222, 230, 231, 232, 347, 348, 447, 448, 454, 455, 459, 461, 462

Music Literature and History: 151, 152, 220, 225, 229, 320, 321, 322, 323, 324, 351, 352, 353, 464, 467, 468, 469, 470, 471, 474

Music Education: 240, 243, 244, 245, 328, 338, 339, 340, 362, 460, 463, 465, 466, 480.

Note: Graduate courses in music are classified for curriculum selection as follows:

Studies in Performance and Composition (Applied Music): 516, 578, 651, 652, 653, 654, 655, 656, 657, 658, 659, 660, 661, 662, 663, 664, 665, 666, 667, 668, 669, 670, 671

Music Theory and Composition: 517, 571

Music Literature and History: 536, 540, 541, 542, 543, 551, 581, 584, 585, 588, 589, 590, 591

Music Education: 520, 528, 556, 557, 560, 562, 563, 572, 573

Research: 545, 546, 566, 580, 595

MUSIC

UNDERGRADUATE COURSES

*001. Voice. (Arr.-Arr.-1 or 2 or 4)

*002. Flute. (Arr.-Arr.-1 or 2 or 4)

*003. Oboe. (Arr.-Arr.-1 or 2 or 4)

*004. Clarinet. (Arr.-Arr.-1 or 2 or 4)

*005. Bassoon. (Arr.-Arr.-1 or 2 or 4)

*006. Saxophone. (Arr.-Arr.-1 or 2 or 4)

*007. Trumpet. (Arr.-Arr.-1 or 2 or 4)

*008. Cornet. (Arr.-Arr.-1 or 2 or 4)

*009. Horn. (Arr.-Arr.-1 or 2 or 4)

*010. Trombone. (Arr.-Arr.-1 or 2 or 4)

*011. Baritone. (Arr.-Arr.-1 or 2 or 4)

*012. Tuba. (Arr.-Arr.-1 or 2 or 4)

* May be repeated for credit until requirements are met. A student shall receive one or two or four quarter hours of credit depending on the degree program elected, i.e., B.S. in Ed. secondary applied or B.A.—1 q. hr. B.S. in Ed. primary applied—2 q. hrs. B. Mus.—4 q. hrs.

*013. Percussion. (Arr.-Arr.-1 or 2 or 4)

*014. Violin. (Arr.-Arr.-1 or 2 or 4)

*015. Viola. (Arr.-Arr.-1 or 2 or 4)

*016. Violoncello. (Arr.-Arr.-1 or 2 or 4)

*017. String Bass. (Arr.-Arr.-1 or 2 or 4)

*018. Piano. (Arr.-Arr.-1 or 2 or 4)

*019. Organ. (Arr.-Arr.-1 or 2 or 4)

*020. Harpsichord. (Arr.-Arr.-1 or 2 or 4)

*021. Composition. (Arr.-Arr.-1 or 2 or 4)

Note: Auditions are required for initial placement in applied music courses.

** 103. Recital. Every quarter. (No credit.)

120. **Basic Music for Classroom Teachers. (4-0-4)** A study of basic music theory. For elementary and junior high majors.

126, 127, 128. **Class Instruction in Piano. (2-0-1 each course)** 126-Su, F, W; 127-F, W, S. A course for students with little or no previous piano study. Auditions are required for initial placement.

130, 131, 132. **Music Theory. (4-0-4 each course)** 130-F; 131-W; 132-S. The study of scales, modes, intervals, basic harmony, rhythm, and key relationships. Aural understanding is developed through dictation and sight singing. Must be taken in sequence.

136, 137, 138. **Class Instruction in Voice. (2-0-1 each course)** 136-Su, F; 137-F, W; 138-W, S. Beginning vocal instruction for all not assigned to studio lessons.

146, 147, 148. **Class Instruction in Strings. (4-0-2 each course)** 146-Su, F, W; 147-Su, W; 148-S. A study of beginning instrumental technique.

151, 152. **Preliminary Survey of Music. (2-0-2 each course)** 151-F, S; 152-Su, W. A study of selected works of music literature from the Renaissance through the twentieth century. One of these two courses is required for music majors for B.S. in Ed. Both are required for B.Mus.

200. **Class Instruction in Clarinet, Flute and Saxophone. (4-0-2)** Su, W, S. A study of beginning instrumental technique.

201. **Class Instruction in Oboe and Bassoon. (4-0-2)** Su, W, S. A study of beginning instrumental technique.

203. **Class Instruction in Percussion. (4-0-2)** Su, W, S. A study of beginning instrumental technique.

204. **Class Instruction in Trumpet and French Horn. (4-0-2)** Su, W, S. A study of beginning instrumental technique.

205. **Class Instruction in Trombone, Baritone and Tuba. (4-0-2)** Su, W, S. A study of beginning instrumental technique.

220. **The Role of the Black in Western Music. (4-0-4)** Su, F. A course emphasizing the Black man's contribution, including jazz and folk music in Western Civilization. May be applied toward the humanities requirement.

* May be repeated for credit until requirements are met. A student shall receive one or two or four quarter hours of credit depending on the degree program elected, i.e., B.S. in Ed. secondary applied, B.A.—1 q. hr. and B.S. in Ed. primary applied—2 q. hrs. B. Mus.—4 q. hrs.

** It is required that all students with a major in music reserve the Float A period on Tuesdays for music convocations and recitals.

- 221, 222. **Fundamentals of Music.** (4-0-4 each course) 221-F, W; 222-W, S. Continuation of Music 120. Prerequisite: Music 120. Required of elementary majors with an Area I or II concentration in music. Must be taken in sequence.
225. **Music Literature for Elementary Teachers.** (4-0-4) Study of major forms and styles of Western Music suitable for use in the elementary general music program. Prerequisite: Music 120 or equivalent. Required of elementary majors with an Area I or II concentration in music.
- 226, 227, 228. **Class Instruction in Piano.** (2-0-1 each course) 227-Su, W, S; 228-F, S. An intermediate course for students with previous piano study. Auditions are required for initial placement. Prerequisite: Music 128 or permission of instructor.
229. **Introduction to Music Literature.** (4-0-4) A course intended to develop intelligent and pleasurable listening abilities. A wide range of musical forms and periods is covered. Not open to music majors or minors.
- 230, 231, 232. **Music Theory.** (4-0-4 each course) 230-F; 231-W; 232-S. A study of the contrapuntal and harmonic materials of music, and the development of aural skills. Prerequisite: Music 132. Must be taken in sequence.
- 236, 237, 238. **Class Instruction in Voice.** (2-0-1 each course) 236-F; 237-W; 238-S. The second year of study designed for vocal secondary students and those not qualified for private instruction. Prerequisite: Music 138 or equivalent.
240. **Laboratory in Music Education.** (2-0-2) F, W, S. Directed observations and individualized experiences in participation in all kinds of music learning situations at all grade levels.
- 243, 244, 245. **Vocal Diction.** (2-0-1 each course) 243-F; 244-W; 245-S. The study of the vocal diction of English, Italian, Spanish, German, and French song literature. Prerequisite: Three quarters of Applied Voice, or equivalent.
- 246, 247, 248. **Basic Keyboard Skills.** (2-0-1 each course) 246-F, 247-W; 248-S. These courses develop basic functional skills in transposition, harmonization, and sight reading.
- 250.* **Ensemble, Band.** (4-0-1) (1 q. hr. may be repeated for a maximum of 9 q. hrs. by music majors or minors. Non-music majors may take a maximum of 4 q. hrs.)
- 251.* **Ensemble, Chorus.** (4-0-1) (1 q. hr. may be repeated for a maximum of 9 q. hrs. by music majors or minors. Non-music majors may take a maximum of 4 q. hrs.)
- 252.* **Ensemble, Orchestra.** (4-0-1) F, W, S. (1 q. hr. may be repeated for a maximum of 9 q. hrs. by music majors or minors. Non-music majors may take a maximum of 4 q. hrs.)
- 253.* **Ensemble, Jazz.** (4-0-1) The study and performance of literature for the jazz ensemble. Prerequisite: Permission of instructor.
- 255 (380). **Choral Conducting.** (2-0-2) F. A course designed to make familiar the language and gestures for effective choral directing. The class serves as a laboratory chorus. Prerequisite: Music 132 or 138.
- 260 (381). **Instrumental Conducting.** (2-0-2) W. A study of baton technique and score reading for instrumental organizations. Prerequisite: Music 132.
301. **Accompanying.** (Arr.-Arr.-1) This course consists of vocal or instrumental accompanying. Prerequisite: Permission of instructor.
320. **History and Literature of Music.** (4-0-4) F, W. The development of music from the ancient times through the Renaissance. Not open to music majors or minors.
321. **History and Literature of Music.** (4-0-4) W, S. Music from the baroque through the classical period. Not open to music majors or minors.

*250, 251, 252, 253. Students who are non-music majors or minors may use only four quarter hours of ensemble credit for graduation. Music majors and minors may use only nine quarter hours in such courses toward meeting the total graduation requirement.

322. **History and Literature of Music. (4-0-4)** Su, S. Music from the romantic period to the present. Not open to music majors or minors.
323. **Music in World Cultures: Western Folk and Traditional Music. (4-0-4) (Omitted 1971-72)** A survey which includes African music south of the Sahara. May be applied toward the humanities requirement.
324. **Music in World Cultures: Near Eastern, Asian and Pacific. (4-0-4) (Omitted 1971-72)** A survey of non-Western music cultures. May be applied toward the humanities requirement.
328. **Music in Elementary Schools. (4-0-4)** A study of the objectives, methods, and materials of music education in the elementary grades. Prerequisite: Music 120. For elementary education majors.
338. **Music in the Allied Arts. (4-0-4)** S. A study of the aesthetic experience emphasizing music, but also concerned with the relationship of the arts. Open only to music majors and minors. Prerequisites: One course in philosophy and two courses in each of the following areas: art history and appreciation; English literature; history; music history and literature; and music theory.
339. **Methods of Teaching Music in Elementary Schools. (4-0-4)** W. A study of the objectives, methods, and materials of music education in the elementary grades. Prerequisite: Admission to teacher education. For music majors and minors.
340. **Methods of Teaching Music in Secondary Schools. (4-0-4)** F. Methods and materials appropriate for junior and senior high school. Emphasis is on the instrumental program. Prerequisite: Admission to teacher education and junior standing.
347. **Orchestration. (4-0-4)** Su, F. Beginning practical experience in scoring for orchestra.
348. **Advanced Orchestration. (4-0-4)** W. A study of instruments of the orchestra and their usage in orchestral writing.
351. **History and Literature of Music. (4-0-4)** Su, F. Development of music from ancient times through the Renaissance. Open only to music majors and minors.
352. **History and Literature of Music. (4-0-4)** W. Development of music from the baroque through the classic period. Open only to music majors and minors.
353. **History and Literature of Music. (4-0-4)** S. Development of music from the romantic period to the present. Open only to music majors and minors.
- 355 (380). **Choral Techniques and Materials. (2-0-2) (Omitted 1971-72)** A course designed to develop a knowledge of style, rehearsal techniques, and materials for various vocal ensemble combinations. The class serves as a laboratory chorus. Prerequisite: Music 255.
- 360 (381). **Instrumental Conducting. (2-0-2)** W. An advanced study of baton technique and score reading for instrumental organizations. Prerequisite: Music 260.
362. **Piano Pedagogy. (4-0-4)** F. The basic skills and knowledge needed in teaching group and private piano. Prerequisite: Two years of applied piano or permission of instructor.
372. **Opera Workshop. (4-0-2)** Su, W, S. Musical theater involving staging, acting, costuming, and singing. Prerequisite: Permission of the instructor. May be taken four times for credit by the undergraduate.
401. **Chamber Ensemble. (Arr.-Arr.-1)** The study and performance of ensemble literature for vocal, piano, and instrumental groups. Prerequisite: Permission of instructor.
447. **Analysis and Form in Music. (4-0-4)** W. A study of the structure of music, the elements of musical form, and the relationship between structure (form) and content. Prerequisite: Music 232.
448. **Analysis and Form in Twentieth Century Music. (2-0-2)** S. A study of musical structure in the twentieth century, emphasizing in balance between tradition and innovation. Prerequisite: Music 447.

COURSES OPEN TO JUNIORS, SENIORS, AND GRADUATE STUDENTS

454. **Choral Arranging. (4-0-4)** S. A practical approach to developing skill in scoring and arranging for various vocal ensemble combinations. Prerequisite: Music 232 or equivalent.
455. **Band Arranging. (4-0-4)** Su, S. A course in scoring and arranging materials for instrumental ensembles.
459. **Stage Band Arranging. (4-0-4)** S. A Course dealing with the basic problems and techniques involved in arranging for a stage band. Prerequisite: Music 232 or equivalent.
460. **Marching Band Procedure. (4-0-2)** F. Rudiments of marching, band pageantry, and field maneuvers.
461. **Sixteenth Century Counterpoint. (4-0-4)** F. A basic study of techniques in polyphonic literature. Includes the styles of Palestrina and the English madrigalists. Prerequisite: Music 232.
462. **Eighteenth Century Counterpoint. (4-0-4)** W. A study of contrapuntal harmonic practices, including inventions, canon fugue, and forms based upon the chorale. Prerequisite: Music 232.
463. **Administration of Instrumental Organizations. (4-0-2)** Su, S. A study of administrative problems which apply particularly to the instrumental teacher.
464. **Church Music. (4-0-4)** W. A historical review of hymnody, psalmody, and choral and keyboard literature in relation to current worship practices.
465. **Techniques for Developing and Training Stage and Dance Bands in the High School. (4-0-2)** Su. A course dealing with basic problems in organization, development, and training of the high school stage and dance band. Prerequisite: Music 200, 204, or permission of instructor.
466. **Vocal Pedagogy. (4-0-4)** W. Writings of recognized authorities on the teaching of singing, coupled with observations. Prerequisite: Six quarters of instruction in singing.
467. **English and Italian Song Literature. (2-0-2)** S. The study of the English and Italian song literature from the seventeenth century to the present. Prerequisite: Music 243 or permission of the instructor.
468. **German Song Literature. (2-0-2)** Su. The study of the German lied. Prerequisite: Music 244 or permission of the instructor.
469. **French and Spanish Song Literature. (2-0-2)** F. The study of the French and Spanish song literature of the nineteenth and twentieth centuries. Prerequisite: Music 245 or permission of the instructor.
470. **Music in the Classic Era. (4-0-4) (Omitted 1971-72)** A critical appraisal of music of the period, emphasizing distinctively classical features. Prerequisites: Music 351, 352, 353.
471. **Music in the Romantic Era. (4-0-4)** F. A critical appraisal of the music of the period, emphasizing distinctively romantic features. Prerequisites: Music 351, 352, 353.
474. **Symphonic Literature. (4-0-4)** Su. A survey of orchestral music from the Mannheim and Viennese schools through the twentieth century.
480. **Workshop in Music. (Arr.-0-1 to 4)** Su. Literature techniques, pedagogy, and style in various media. Content may vary from summer to summer. Provided a student does not repeat courses with same content, he may earn a maximum of six quarter hours credit.

GRADUATE COURSES

(Courses numbered 500-549 inclusive may be taken by a senior whose grade point average is 3.0 or higher, with permission of the instructor and the Dean of the Graduate School. Courses numbered 550 and above are open only to graduate students.)

516. **Advanced Conducting and Performance Practices. (4-0-4)** Su, S. A study of style (in instrumental and vocal ensemble music) as it pertains to problems of the conductor. Prerequisite: Music 355 or 360, or equivalent.
517. **Analytical Techniques. (4-0-4)** W. An investigation of structure, stylistic characteristics and compositional techniques. Prerequisite: Music 447.
520. **Teaching Music Theory. (4-0-4) (Omitted 1971-72)** Principles, techniques, content and materials for teaching music theory courses in the freshman and sophomore years of college.
528. **Aesthetics of Music. (4-0-4) (Omitted 1971-72)** A study of man's search for musical beauty: changing conceptions of beauty through various historical periods.
536. **Opera and Oratorio. (4-0-4)** F. A study of selected opera literature from 1600 to the present. Prerequisites: Music 351, 352, 353.
540. **Keyboard Literature of the Baroque Era. (2-0-2)** Su. A study of the literature of the stringed keyboard instruments from the virginalists through mid-eighteenth century.
541. **Keyboard Literature of the Classic Era. (2-0-2)** F. A study of the piano literature by Haydn, Mozart, Clementi, Beethoven, and Bach's sons.
542. **Keyboard Literature of the Romantic Era. (2-0-2)** W. A study of the piano literature of Schubert, Mendelssohn, Schumann, Chopin, Liszt, and Brahms.
543. **Keyboard Literature of the Twentieth Century. (2-0-2)** S. A study of the piano literature of selected twentieth century composers.
- 545, 546. **Independent Study in Music. (Arr.-Arr.-1 to 4 each course)** Student must submit outline of his plan of work to the Dean of the School of Music for approval and assignment to an instructor.
551. **Music in Contemporary Culture. (4-0-4) (Omitted 1971-72)** The development of perceptual and judgmental abilities through study of forces that influence the art of music. Includes assigned listening and discussion. Credit applicable only to the Group III requirement for the degree M.S. in Ed.
556. **Pedagogy of Woodwinds. (4-0-2)** Su. An advanced course designed to strengthen the knowledge, methods, and techniques of the woodwind instruments.
557. **Pedagogy of Brass and Percussion. (4-0-2)** Su, W. An advanced course to strengthen the knowledge, methods, and techniques of the brass and percussion instruments.
560. **Music in the Elementary School. (4-0-4) (Omitted 1971-72.)** Advanced course in the teaching of music in the elementary school.
- 562, 563. **Foundations and Principles of Music Education. (4-0-4 each course)** 562 (Omitted 1971-72); 563-Su. Systematic treatment of the total music education program.
566. **Introduction to Research in Music. (4-0-4)** F. An introduction to the various aspects of the musical discipline, intended to enable the student to think and write intelligently about his field.
- 572, 573. **Class Piano Pedagogy and Internship. (4-0-4 each course)** 572-F; 573-Su, W. A study of the mechanics and purposes of group piano teaching supplemented by observation and practice teaching in college classes. Prerequisite: Music 362 or permission of instructor.
578. **Performance in Music. (4-0-4)** Areas of special interest in preparation for the performance major.
580. **Seminar in the Problems of Music Education. (Arr.-Arr.-2 to 4)** Special problems in music education planned on an individual basis.
581. **Music of the Twentieth Century. (4-0-4)** F. The chief musical developments in Western Europe and the Americas from 1900 to the present.

584. **Music in the Renaissance Era. (4-0-4) F.** A critical appraisal of music of the period, emphasizing distinctively Renaissance features. Prerequisites: Music 351, 352, 353.
585. **Music in the Baroque Era. (4-0-4) (Omitted 1971-72)** A critical appraisal of music of the period, emphasizing distinctively Baroque features. Prerequisites: Music 351, 352, 353.
- 588, 589. **Seminar in Music History. (4-0-4 each course) Su.** Intensive study of special topics dealing with the eras of the Middle Ages, Renaissance, and Baroque; Classic, Romantic, and Twentieth Century.
590. **History of Music Theory, Greek to 1550. (4-0-4) (Omitted 1971-72)** An examination of various theoretical systems embracing concepts of mode, tone, tuning and temperament from the Greeks through Tinctoris.
591. **History of Music Theory, 1550 to Present. (4-0-4) Su.** An examination of tonal theoretical systems in the western culture from 1550 to the present. Included is meantone and equal temperaments.
595. **Thesis. (Arr.-Arr.-4)**

Note: Auditions are required for initial placement in the following applied music courses.

- *651. Voice. (Arr.-Arr.-1 or 2)
- *652. Flute. (Arr.-Arr.-1 or 2)
- *653. Oboe. (Arr.-Arr.-1 or 2).
- *654. Clarinet. (Arr.-Arr.-1 or 2)
- *655. Bassoon. (Arr.-Arr.-1 or 2)
- *656. Saxophone. (Arr.-Arr.-1 or 2)
- *657. Trumpet. (Arr.-Arr.-1 or 2)
- *658. Cornet. (Arr.-Arr.-1 or 2)
- *659. Horn. (Arr.-Arr.-1 or 2)
- *660. Trombone. (Arr.-Arr.-1 or 2)
- *661. Baritone. (Arr.-Arr.-1 or 2)
- *662. Tuba. (Arr.-Arr.-1 or 2)
- *663. Percussion. (Arr.-Arr.-1 or 2)
- *664. Violin. (Arr.-Arr.-1 or 2)
- *665. Viola. (Arr.-Arr.-1 or 2)
- *666. Violoncello. (Arr.-Arr.-1 or 2)
- *667. String Bass. (Arr.-Arr.-1 or 2)
- *668. Piano. (Arr.-Arr.-1 or 2)
- *669. Organ. (Arr.-Arr.-1 or 2)
- *670. Harpsichord. (Arr.-Arr.-1 or 2)
- *671. Composition. (Arr.-Arr.-1 or 2)

* A student shall receive one or two quarter hours of credit depending on the degree program elected, i.e., M.S. in Ed.—1 q. hr. or M.A.—2 q. hrs. The respective courses may be repeated for a total of 4 q. hrs. in the M.S. in Ed. program and for a total of 8 q. hrs. in the M.A. program.

Studies in Performance and Composition (Applied Music)

In the major applied field, at least several years of study prior to college entrance are required. Private instruction is offered in composition; strings: violin, viola, violoncello, and contrabass; brasses: cornet, trumpet, French horn, trombone, baritone, and tuba; woodwinds: flute, clarinet, oboe, saxophone, and bassoon; percussion: voice, piano; organ; harpsichord. In the case of organ, the student must demonstrate facility on piano before acceptance.

Applied music courses yield variable credit, depending upon the curriculum elected by the student with a major in music. For the Bachelor of Arts and the secondary applied for the Bachelor of Science in Education curricula one quarter hour credit shall be given for one-half hour of individual instruction per week and one hour of daily practice; for the Bachelor of Science in Education curriculum for the primary applied two quarter hours of credit, wherever applicable, shall be given for one hour of individual instruction per week and one hour of daily practice (generally students are expected to complete the minimum requirement over a period of eleven quarters); and for the Bachelor of Music curriculum the student may register for up to four quarter hours of credit for one hour of individual instruction and two hours of daily practice. Courses in composition are also similar in plan.

Courses in any applied subject may be repeated for additional credit. However credit earned in excess of that required for the particular curriculum which the student is pursuing may not be used to satisfy the minimum applied music requirements of that program. Such credit shall be considered as elective.

The student's progress in his principal applied subject shall be evaluated each year by the faculty of the department in which he is enrolled. At the conclusion of the sixth quarter of applied music, all students will be required to take a junior standing examination. A student may not be considered a junior in applied music nor may he present a junior or senior recital without passing this examination.

Courses in applied music taken by music majors and minors beyond six quarters may be counted for upper division credit with the approval of the Dean of the School of Music.

Minimum applied requirements for the degree B.S. in Ed. are as follows:

Instrumental Music Option

- A. Instrumental Principal (Wind, String, or Percussion)—15 q. hrs. Piano—3 q. hrs.
Voice—3 q. hrs.
- B. Keyboard Principal—22 q. hrs. Band or Orchestral Instrument—3 q. hrs.
- C. Composition Principal—15 q. hrs. Piano—6 q. hrs. Voice—6 q. hrs.

Vocal Music Option

- A. Vocal Principal—15 q. hrs. Piano—6 q. hrs.
- B. Keyboard Principal—15 q. hrs. Voice—6 q. hrs.
- C. Composition Principal—15 q. hrs. Piano—6 q. hrs. Voice—6 q. hrs.

General Music Option

- A. Instrumental Principal—8 q. hrs. Piano—3 q. hrs.
- B. Keyboard Principal—8 q. hrs. Voice—3 q. hrs.
- C. Vocal Principal—8 q. hrs. Piano—3 q. hrs.
- D. Composition Principal—8 q. hrs. Piano—3 q. hrs.

Instrumental Music Secondary

Band or Orchestral Instrument—3 q. hrs.

Vocal Music Secondary

Voice—3 q. hrs.

A candidate for the degree Bachelor of Music must select a principal applied music medium. Minimum applied music requirements are as follows:

Performance Option

- A. String or Wind Instrument Principal—48 q. hrs. Secondary Piano—3 q. hrs.
- B. Keyboard Principal (Piano or Organ)—48 q. hrs.
- C. Vocal Principal—48 q. hrs. Secondary Piano—6 q. hrs.

Music History-Literature Option

A. Instrumental or Vocal Principal—24 q. hrs. Secondary Piano—6 q. hrs.

Music Theory-Composition Option

A. Instrumental or Vocal Principal—24 q. hrs. Secondary Piano—6 q. hrs.

Credit Organizations in Music

Elementary education majors may elect a maximum of four quarter hours of credit in choral ensembles. Non-music majors may earn no more than four quarter hours of credit toward graduation in chorus, orchestra, or band. However, music majors and minors may apply a maximum of nine quarter hours of credit toward graduation for such ensemble courses taken.

Courses in ensemble taken by music majors and minors beyond six quarters may be counted for upper division credit with the approval of the Dean of the School of Music.

No more than two quarter hours of credit may be earned in a single quarter regardless of the number of organizations in which the student participates.

Minimum ensemble requirements for music majors for the degree B.S. in Ed. are:

Instrumental Option—6 q. hrs. credit in instrumental organizations. (A student with a keyboard principal may elect either instrumental or choral organizations.)

Choral Option—6 q. hrs. credit in choral organizations.

General Option—3 q. hrs. credit in choral and instrumental organizations.

Minimum requirements for music minors:

Instrumental Option—3 q. hrs. credit in instrumental organizations.

Choral Option—3 q. hrs. credit in choral organizations.

The music major is encouraged to participate in at least one ensemble during each quarter of residence.

CONCERT CHOIR

A select ensemble of approximately 50 men and women. Four meetings per week. Audition required.

CHORUS

Open to all qualified singers. Four meetings per week. On Wednesdays at 4:00 o'clock the Concert Choir and Chorus form the nucleus of an all-University Choral Union for the study and performance of Oratorios, Masses, and Cantatas.

MARCHING BAND

The marching band performs during the football season for all home games and usually takes one out-of-town trip. Membership is open to all students.

CONCERT BAND

The concert band functions as a musical unit for study and performances of all types of band literature. Membership is open to all students.

SYMPHONIC WINDS

A select 40 piece wind ensemble organized for the study and performance of the highest quality band literature. Membership is selected by audition.

PEP BANDS

Three pep bands perform alternately at all home basketball games. Personnel are selected from the Symphonic Winds and Concert Band.

STRING ORCHESTRA

An organization for string players interested in the study and public performance of literature for the string orchestra. Membership is open to qualified players.

SYMPHONY ORCHESTRA

The orchestra is open to all student string, wind, and percussion players. Mature performers from within the university and community are eligible for membership. The orchestra presents regular programs on campus of representative works from symphonic literature. In addition, the orchestra participates in certain choral and operatic productions. Membership is selected by audition. Many instruments are available for use of the personnel.

Non-Credit Musical Organizations**COLLEGIANS**

A select ensemble of approximately 15 voices specializing in the study and performance of show tunes and pop arrangements.

CHAMBER SINGERS

An ensemble of mixed voices for the study and performance of vocal chamber music dating from 1500 to the present. Audition required.

CHAMBER GROUPS IN INSTRUMENTAL MUSIC

Chamber groups of woodwinds, brasses and strings are organized to enrich the experience of players in the standard literature. These groups appear publicly and are regularly in rehearsal.

COLLEGIUM MUSICUM

A group organized for the purpose of reading, study, and performance of seldom-heard works. Vocal and instrumental forces, either separate or at times in combination, are employed.

STAGE BAND

The stage band offers an opportunity to play the finest in stage band music. Rehearsals are held two evenings each week; various programs are performed throughout the year. Membership is open to all students. Audition is required.

RECITALS

Each student graduating with a major in music in the Bachelor of Science in Education degree program is required to present appropriate partial junior and senior recitals demonstrating his musical growth and artistry. All students, except freshmen, are required to appear (each year) in the series of student recitals in order to gain experience in musical performance. Students in this degree program may substitute for the junior and/or senior recital a project in either teaching or conducting an ensemble. Such substitution is subject to the approval of the Dean of the School of Music and the head of the department involved. The General Music Option does not require a senior recital.

Students with an option in performance in the Bachelor of Music degree program shall present a half-recital in the junior year and a full recital in the senior year. Students with an option in either Music Theory-Composition or Music History-Literature shall present appropriate projects in lieu of the junior and senior recitals. Further, the performance major shall be required to perform a minimum of four times on student recitals in addition to presenting a Junior recital and Senior recital. The student recital requirements must be completed before the quarter in which the Senior recital is given.

PHILOSOPHY

Note: Philosophy 250 or Philosophy 301 is recommended as the most appropriate choice for students who elect a single course in philosophy. As introductory treatments of the techniques and issues of philosophic inquiry, Philosophy 250 focuses attention on representative problems without reference to historical perspective, whereas Philosophy 301 explores a range of problems in an historical context. If a student anticipates the election of more than one of the history courses, it would be advisable to schedule them in the order of their historical sequence.

For students who may elect philosophy as their option to satisfy the humanities requirement, at least three approaches are feasible (depending on the student's interest): 1) Philosophy 250 and/or Philosophy 301 plus additional work in the History of Philosophy, 2) a sequence in the History of Philosophy beginning with Philosophy 301, and 3) a selection of courses including Philosophy 250, 270, and more advanced courses.

UNDERGRADUATE COURSES

250. **Problems of Philosophy. (4-0-4)** An introduction to philosophic inquiry through analysis of selected problems: Knowledge, Value, Religion, and Alternative World Views.
270. **Logic. (4-0-4)** An introduction to the principles of sound reasoning: logic and language, deductive and formal logic, empirical scientific methodology.
301. **History of Philosophy: Ancient. (4-0-4)** An introductory historical approach to the nature of Man, God, the World, and Value: the Pre-Socratics, Plato, and Aristotle.
305. **History of Philosophy: Medieval. (4-0-4)** W. An examination of the principal philosophers from Epicurus through St. Thomas Aquinas. Prerequisite: Philosophy 250 or 301.
306. **History of Philosophy: Modern. (4-0-4)** F, W, S. Philosophic thought from Galileo to Kant: the foundations of modern science and implications for religious, moral, and political theory. Prerequisite: Philosophy 250 or 301.
310. **Nineteenth Century Philosophy: European. (4-0-4)** W. German Idealism, early Existentialism, scientific philosophy, and dialectical materialism: Hegel, Nietzsche, Kierkegaard, Mill, and Marx. Prerequisite: Philosophy 250 or 301.
330. **Social and Political Philosophy. (4-0-4)** S. A philosophical examination of man in society, the foundations of social and political institutions, and the nature of political obligation. Prerequisite: Junior standing and at least four quarter hours in philosophy, or consent of the instructor.
360. **Symbolic Logic. (4-0-4)** F. An examination of the special symbols and structures of symbolic logic: truth functions, quantification, the logic of relations, and the class calculus. Prerequisite: Junior standing and Philosophy 270 or permission of the instructor.
380. **Contemporary Philosophy: European. (4-0-4)** S. A study of the development of Analytical Philosophy, Logical Positivism, Phenomenology, and Existentialism. Prerequisite: Junior standing and at least four quarter hours in philosophy (Philosophy 306 recommended), or permission of the instructor.
381. **American Philosophy. (4-0-4)** F. An examination of the principal American philosophers from Jonathan Edwards to Dewey and Whitehead. Prerequisite: Junior standing and at least four quarter hours in philosophy (Philosophy 306 recommended), or permission of the instructor.
402. **Ethics. (4-0-4)** Su, W, S. Analysis and evaluation of principal theories and problems concerning Right, Good, validity of moral standards, and moral conduct. Prerequisite: Eight quarter hours in philosophy, including Philosophy 250, or permission of the instructor.
404. **Aesthetics. (4-0-4)** F. A critical examination of aesthetic experience and fine art: artistic creativity, the work of art, and criteria of judgment. Prerequisite: Eight quarter hours in philosophy, including Philosophy 250, or permission of the instructor.

410. **Philosophy of Religion. (4-0-4) Su, W.** A philosophical interpretation of religion, religious experience, and fundamental problems: God, evil, immortality, religious knowledge. Prerequisite: Eight quarter hours in philosophy, including Philosophy 250, or permission of the instructor.
415. **Philosophy of History. (4-0-4) S.** A critical analysis and evaluation of theories proposed by philosophers in their attempts to specify the nature of history and historical inquiry. Prerequisite: Eight quarter hours in philosophy, including Philosophy 250 and Philosophy 301 or 306; or permission of the instructor.
420. **Philosophy of Science. (4-0-4) F.** An analysis of the key assumptions and implications of modern science: form, hypothesis, verification, causality, law, and methodology. Prerequisite: Eight quarter hours in philosophy (Philosophy 270 and 306 recommended) or permission of the instructor.
430. **Philosophy and Culture: Western. (4-0-4) W.** An analysis of the basic scientific, religious, and philosophical assumptions of Western civilization and its principal cultures. Prerequisite: At least eight quarter hours in philosophy or permission of the instructor.
431. **Philosophy and Culture: Eastern. (4-0-4) S.** An analysis of the basic philosophical and religious assumptions of Eastern civilization: India, China, and Japan. Prerequisite: Philosophy 430 or permission of the instructor.
448. **Independent Study. (4-0-4) S.** Advanced study of selected problems, topics, or philosophers. Prerequisite: At least sixteen quarter hours in philosophy and permission of the instructor.

PHYSICAL EDUCATION FOR MEN

Students are required to attend physical education classes regularly two hours each week during each quarter of residence (including summer) until a minimum of six quarter hours credit has been earned unless this requirement is modified by the University Physician or they are over twenty-five years of age. It is the responsibility of the student, not his advisor, to see that this requirement is met, and to select his own courses for its fulfillment. Credit of one quarter hour toward the satisfying of the graduation requirement in physical education is given for each quarter's work successfully passed.

Students who attend only in summer and who will not become candidates for graduation are released from physical education requirements.

It is recommended that the student select a program of activities which includes a minimum of two courses in team games, two courses in individual activities, and one course in dance. No course may be repeated for credit without permission of the Head of the Men's Physical Education Department.

Prior to entering the University, each student is required to have a physical examination. When abnormalities and weaknesses are disclosed by the examination, corrective exercise and restricted activities are prescribed. The Health Service follows up cases in need of medical attention.

Equipment. Each student who takes physical education is required to have rubber-soled gym shoes. All other equipment will be furnished by the University. Each student is required to follow regulations in the use of this equipment. Regulations for the use of the equipment will be given at the first class period and will be posted in the locker room.

For a statement of fees for lock, see page 58.

SERVICE COURSES

Service courses in physical education are numbered to indicate the level of the work. Courses in the 100 series are intended for beginners; majors and minors in physical education should register for service courses which will serve as prerequisites for the professional "Technique of Teaching" courses. Veterans who are majors or minors in physical education are not exempted from service physical education or Health Education 120, unless evidence is presented that the specific content of these courses has been covered in military service.

- 002. Baseball (Intercollegiate Team Participation). (5-0-1) S.
- 003. Basketball (Intercollegiate Team Participation). (5-0-1) W.
- 005. Soccer. (Intercollegiate Team Participation). (5-0-1) F.
- 009. Football (Intercollegiate Team Participation). (5-0-1) F.
- 012. Golf (Intercollegiate Team Participation). (5-0-1) S.
- 013. Gymnastics (Intercollegiate Team Participation). (5-0-1) W, S.
- 014. Tennis (Intercollegiate Team Participation). (5-0-1) S.
- 015. Wrestling (Intercollegiate Team Participation). (5-0-1) W.
- 016. Cross Country and Track (Intercollegiate Team Participation). (5-0-1) F, W, S.
- 018. Swimming (Intercollegiate Team Participation). (5-0-1) W.
- 101. Prescribed Activities. (2-0-1) Corrective exercise and adapted activities for students whose physical condition will not permit participation in the regular activity program.
- 103. Basketball (Beginning). (2-0-1)
- 105. Soccer (Beginning). (2-0-1) F.
- 106. Softball (Beginning). (2-0-1) Su, S.
- 107. Touch Football (Beginning). (2-0-1) F.
- 108. Volleyball (Beginning). (2-0-1)
- 110. Archery (Beginning). (2-0-1) Su, F, S.
- 111. Badminton (Beginning). (2-0-1) Open to both men and women.
- 112. Golf (Beginning). (2-0-1) Su, F, S. Open to both men and women.
- 113. Gymnastics Apparatus (Beginning). (2-0-2) W, S.
- 114. Tennis (Beginning). (2-0-1) Su, F, S. Open to both men and women.
- 115. Wrestling (Beginning). (2-0-1) W.
- 116. Track (Beginning). (2-0-1) S.
- 117. Stunts and Tumbling. (2-0-1) W.
- 119. Bowling (Beginning) (2-0-1) W, S. Open to both men and women.
- 140. Swimming (Beginning) (2-0-1) For beginning swimmers only. Persons able to swim the width of a 45-foot pool should enroll in P.E.M. 141.
- 141. Intermediate Swimming. (2-0-1)
- 142. Senior Life Saving. (2-0-1) Su, W. Prerequisite: P.E.M. 141 Intermediate swimming or demonstrate level of ability by passing a pre-test. Open to both men and women.
- 143. Competitive Swimming and Diving. (2-0-1) F. Prerequisite: P.E.M. 141 Intermediate swimming or demonstrate level of ability by passing a pre-test.
- 144. Scuba and Snorkel Diving. (2-0-1) Su, W, S. Prerequisite: P.E.M. 141 or demonstrate level of ability by passing a pre-test. Open to both men and women.
- 145. Water Polo. (2-0-1) W. Prerequisite: A student must demonstrate a level of swimming ability equal to skills learned in any other course offered in swimming except P.E.M. 140.
- 146. Water Safety Instruction. (2-0-1) W, S. Prerequisite: A student must have passed P.E.M. 142 or have a recently earned Senior Life Saving Certificate issued by the American Red Cross. Open to both men and women.

- 160. **Weight Training (Beginning).** (2-0-1)
- 161. **Weight Training (Intermediate).** (2-0-1) Prerequisite: P.E.M. 160 or demonstrate level of ability by passing pre-test.
- 162. **Handball.** (2-0-1)
- 164. **Rifle and Pistol.** (2-0-1)
- 190. **Folk and Square Dancing.** (2-0-1) See Physical Education (Women).
- 191. **Modern Dance. (Beginning).** (2-0-1) See Physical Education (Women).
- 192. **Social Dance.** (2-0-1) See Physical Education (Women).

PROFESSIONAL COURSES (UNDERGRADUATE)

- 120. **Basic Activities for Elementary and Secondary Schools.** (4-0-4) Games and activities for the elementary and secondary level including body mechanics; basic exercises; rhythms.
- 121. **Elementary Tumbling, Stunts, and Pyramids.** (4-0-4) Basic tumbling skills; vaulting; trampoline.
- 150. **Introduction to Physical Education.** (4-0-4) General scope, purpose, history, growth and development of physical education.
- 203. **Technique of Teaching Basketball.** (1-2-2) Prerequisite: Physical Education 103 or evidence of a level of competence in the specific skill necessary for teaching.
- 205. **Technique of Teaching Soccer.** (1-2-2) F. Prerequisite: Physical Education 105 or evidence of a level of competence in the specific skill necessary for teaching.
- 206. **Techniques of Teaching Softball.** (1-2-2) Su, S. Prerequisite: Physical Education 106 or evidence of a level of competence in the specific skill necessary for teaching.
- 207. **Technique of Teaching Touch Football.** (1-2-2) F. Prerequisite: Physical Education 107 or evidence of a level of competence in the specific skill necessary for teaching.
- 208. **Technique of Teaching Volleyball.** (1-2-2) Prerequisite: Physical Education 108 or evidence of a level of competence in the specific skill necessary for teaching.
- 210. **Technique of Teaching Archery.** (1-2-2) Su, F, S. Prerequisite: Physical Education 110 or evidence of a level of competence in the specific skill necessary for teaching.
- 211. **Technique of Teaching Badminton.** (1-2-2) Prerequisite: Physical Education 111 or evidence of a level of competence in the specific skill necessary for teaching.
- 212. **Technique of Teaching Golf.** (1-2-2) Su, F, S. Prerequisite: Physical Education 112 or evidence of a level of competence in the specific skill necessary for teaching.
- 213. **Technique of Teaching Gymnastics Apparatus.** (1-2-2) W, S. Prerequisite: Physical Education 113 or evidence of a level of competence in the specific skill necessary for teaching.
- 214. **Technique of Teaching Tennis.** (1-2-2) Su, F, S. Prerequisite: Physical Education 114 or evidence of a level of competence in the specific skill necessary for teaching.
- 215. **Technique of Teaching Wrestling.** (1-2-2) W. Prerequisite: Physical Education 115 or evidence of a level of competence in the specific skill necessary for teaching.
- 216. **Techniques of Teaching Track.** (1-2-2) S. Prerequisite: Physical Education 116 or evidence of a level of competence in a specific skill necessary for teaching.
- 217. **Technique of Teaching Stunts and Tumbling.** (1-2-2) W. Prerequisite: Physical Education 117 or evidence of a level of competence in the specific skill necessary for teaching.

228. **Organization and Administration of Playgrounds. (4-0-4)** S. Administrative problems associated with the total operation of playgrounds. Open to both men and women.
240. **Technique of Teaching Swimming (1-2-2)** Prerequisite: Physical Education 140, or Red Cross Certificate or evidence of a level of competence in the specific skill necessary for teaching.
244. **Kinesiology. (4-0-4)** Laws of physics applied to human motion; joint movements; motion of muscle groups. Analysis of fundamental body movements and the adaptation of gymnastic exercises to posture training and sports activities. Prerequisite: Zoology 225. Open to both men women.
340. **Organization of Grade Level Activities and Methods of Teaching the Activity in Physical Education. (4-0-4)** Organization of health and physical education activities for various age levels, and methods of teaching health and physical education. Prerequisite: Four quarter hours of physical education activities at the 200 level; admission to teacher education and junior standing.
347. **Basketball Coaching. (2-4-4)** Offensive and defensive styles of play; fundamentals; individual and team play; rules and strategy; conduct of tournament play.
348. **Football Coaching. (2-4-4)** Fundamentals of football including blocking, tackling, passing, kicking, offensive and defensive line and backfield play; conditioning; rules and strategy.
349. **Track and Field Coaching. (2-4-4)** Fundamentals of track and field events; javelin; hurdles. Organization of track meets. Study of rules and strategy.
350. **Baseball Coaching. (2-4-4)** Fundamentals of batting; fielding; playing various positions. Rules, strategy; play situations.
351. **Camping (4-0-4)** S. Organization and administration of camps including program planning; counselor problems; camp policies.
358. **Gymnastics Coaching. (2-4-4)** W. Fundamentals of heavy apparatus; rings, trampoline; free exercise; rules.
360. **Wrestling Coaching. (4-0-4)** (Omitted 1971-72) A course designed to acquaint the student with the theory and application of wrestling maneuvers, the rules, and the conditioning and training.
378. **Introduction to Community Recreation. (4-0-4)** F. Various approaches to community organization of recreation with study of the settings provided for the development of recreational services.
- 431 (451). **History and Principles of Physical Education. (4-0-4)**
- 432 (452). **Physical Education Administration and Supervision. (4-0-4)**
- 433 (461). **The Prevention and Care of Athletic Injuries. (4-0-4)** Primary causes of injuries; analysis of preventive measures; care of injuries in relation to type of tissue involved.

COURSES OPEN TO JUNIORS, SENIORS, AND GRADUATE STUDENTS

450. **Evaluation of Physical Education Activities. (4-0-4)** See Physical Education, Women.
470. **Organization and Administration of Intramural Athletics. (4-0-4)** Su, F. The educational philosophy of intramurals; function of administrative personnel; units of participation; scheduling; conduct of intramural programs. Open to both men and women.
471. **Practicum in Recreation Leadership. (0-8-4)** Su. A field experience to include assignment to an established community recreation program. Open to both men and women.
474. **Development of Areas and Facilities for Physical Education and Recreation (4-0-4)** F. Design and operation of physical education and recreation facilities, both indoor and outdoor, including types, location, layout, and construction standards. Open to both men and women.



476. **Recreation in the Natural Environment. (4-0-4) S.** An analysis of existing programs of recreation, both commercial and public, conducted in the natural environment. Open to both men and women.
479. **Swimming Pool Management and Operation. (4-0-4) W.** A course to orient the student in design of swimming pools, water treatment, maintenance problems, operational procedures, and program planning. Open to both men and women.

GRADUATE COURSES

(Courses numbered 500-549 inclusive may be taken by a senior whose grade point average is 3.0 or higher, with permission of the instructor and the Dean of the Graduate School. Courses numbered 550 and above are open only to graduate students.)

500. **Introduction to Graduate Study in Health, Physical Education, and Recreation. (4-2-4) Su, F.** A critical review and evaluation of selected studies in physical education and related fields, including an overview of statistical procedures and an in-depth exposure to various types of research. Prerequisite: Physical Education Women 450 or equivalent. May be taken concurrently.
520. **Course of Study Development in Physical Education. (4-0-4) S.** Principles and methods; different psychological and educational points of view; organizing a course of study; making units of instruction. Open to both men and women.
521. **Administration of Interschool Athletics. (4-0-4) W.** Organization and control of interschool athletics at the national, state, and local levels. Staff; programs; budget; health and safety; facilities.
523. **Physiology of Exercise. (4-0-4) W.** A study of the immediate and long range effects of muscular activity upon the respiratory, circulatory and muscular systems. Prerequisite: Zoology 348. Open to both men and women.
524. **Physical Education for the Atypical Individual. (4-0-4) Su.** Survey of human physical disabilities combined with adaptive and rehabilitative measures to promote better living for the individual. Open to both men and women.
528. **The Organization and Administration of Community Recreation. (4-0-4) S.** Trends in recreation on federal, state, and local levels. Legislative provisions: governmental control; financing; personnel; departmental organization, and administrative procedures. Open to both men and women.
530. **Advanced Administration of Physical Education in Schools. (4-0-4) Su, W.** Liability; construction of facilities; purchase and care of athletic equipment; budget and finance; evaluative procedures; general administrative control. Open to both men and women.
540. **Advanced Techniques of Athletic Training. (2-0-2) Su.** Concerned with current trends in setting up and conducting training programs.
541. **Advanced Coaching of Baseball. (2-0-2) Su.** Concerned with current trends in the specific areas of interschool baseball programs. A detailed study of new techniques and equipment used in the coaching of baseball.
542. **Advanced Coaching of Basketball. (2-0-2) Su.** Concerned with current trends in the specific areas of interschool basketball programs. A detailed study of new techniques and equipment used in the coaching of basketball.
543. **Advanced Coaching of Football. (2-0-2) Su.** Concerned with current trends in the specific areas of interschool football programs. A detailed study of new techniques and equipment used in the coaching of football.
544. **Advanced Coaching of Track and Field. (2-0-2) Su.** Concerned with current trends in the specific areas of interschool track and field programs. A detailed study of new techniques and equipment used in the coaching of track and field.

- 550. **Sports and Physical Education in American Society. (4-0-4) (Omitted 1971-72)** A course for non-majors of physical education designed to study the contributions of physical education and athletics in our culture. Credit applicable only to the Group III requirement for the degree M.S. in Ed.
- 570. **Experimental Laboratory Research in Physical Education. (4-0-4) Su, F.** Techniques and procedures employed in obtaining anthropometric, metabolic, cardiorespiratory and other physiological data in laboratory and field environments. Open to both men and women.
- 571. **Sociological Bases of Sport in America. (4-0-4) F.** The role of sport in American culture. Influence of basic social units, fundamental social processes and social values on sport in America. Open to both men and women.
- 572. **Evaluation of Physical Education Philosophies in Foreign Countries. (4-0-4) W.** A comparative study of philosophies of physical education in selected European, Asian and Latin American countries. Open to both men and women.
- 573. **The Nature and Bases of Motor Behavior. (4-0-4) S.** A study of the factors influencing human movement and skill learning. Emphasis is placed upon the input-output aspects of motor skill performance. Open to both men and women.
- 580. **Analytical Readings in Health, Physical Education and Recreation. (4-0-4) S.** Assigned readings in professional publications for education and health and physical education articles. Open to both men and women.
- 590, 591, 592. **Independent Study. (Arr.-Arr.-4 each course)** Individual pursuit of study selected by the student. Approval of the study is made by a graduate faculty committee.
- 595. **Thesis. (Arr.-Arr.-4)**

PHYSICAL EDUCATION FOR WOMEN

Students are required to attend physical education classes regularly two hours each week during each quarter of residence (including summer) until a minimum of six quarter hours credit has been earned unless this requirement is modified by the University Physician or they are over twenty-five years of age. It is the responsibility of the student, not his advisor, to see that this requirement is met, and to select his own courses for its fulfillment.

Students who attend only in summer and who will not become candidates for graduation are released from physical education requirements.

Credit of one quarter hour toward the satisfying of the graduation requirement in physical education is given for each quarter's work successfully passed. No course shall be repeated for credit without permission of the head of the Physical Education Department. Upperclassmen are encouraged to elect courses that interest them.

SERVICE COURSES

- 098. **Courses for Individual Needs. (2-0-1)** Courses in an adapted form of activity as prescribed by the University Health Center.
- 172. **Basketball (Beginning). (2-0-1)**
- 173. **Field Hockey (Beginning). (2-0-1)**
- 174. **Soccer (Beginning). (2-0-1) F.**
- 175. **Softball (Beginning). (2-0-1) S.**
- 176. **Speedball (Beginning). (2-0-1) F, S.** Required of all majors.
- 177. **Volleyball (Beginning). (2-0-1) Su, W, S.**

- 180. **Archery (Beginning).** (2-0-1) Su, F, S. Required of all majors.
- 181. **Badminton (Beginning).** (2-0-1) Required of all majors.
- 182. **Bowling (Beginning).** (2-0-1)
- 183. **Golf (Beginning).** (2-0-1) Su, F, S. Required of all majors.
- 185. **Stunts and Tumbling (Beginning).** (2-0-1) F, W.
- 186. **Swimming (Beginning).** (2-0-1) For beginning swimmers only. Persons able to swim the width of a 45-foot pool should enroll in P.E.W. 286. Required of all majors.
- 187. **Tennis (Beginning).** (2-0-1) Su, F, S. Required of all majors.
- 188. **Fencing (Beginning).** (2-0-1) W, S.
- 189. **Gymnastics Apparatus (Beginning).** (2-0-1) S.
- 190. **Folk and Square Dance (Beginning).** (2-0-1) Open to both men and women.
- 191. **Modern Dance (Beginning).** (2-0-1) F, W, S. Open to both men and women.
- 192. **Ballroom Dance (Beginning).** (2-0-1) Open to both men and women.
- 194. **Track and Field (Beginning).** (2-0-1) Su, S. For physical education majors and minors only, or permission of the instructor. Required of all majors.
- 196. **Officiating.** (2-0-1) F, S. For physical education majors and minors only.
- 197. **Officiating.** (2-0-1) Su, W. For physical education majors and minors only.
- 199. **Fundamentals.** (2-0-1) Understandings and principles of good body mechanics as applied to everyday life.
- 272. **Basketball (Intermediate).** (2-0-1) W. Prerequisite: Physical Education 172 or permission of the instructor.
- 273. **Field Hockey (Intermediate).** (2-0-1) F. Prerequisite: Physical Education 173 or permission of the instructor.
- 277. **Volleyball (Intermediate).** (2-0-1) W. Prerequisite: Physical Education 177 or permission of the instructor.
- 281. **Badminton (Intermediate).** (2-0-1) W, S. Prerequisite: Physical Education 181 or permission of the instructor.
- 283. **Golf (Intermediate).** (2-0-1) Su, F. Prerequisite: Physical Education 183 or permission of the instructor.
- 286. **Swimming (Intermediate).** (2-0-1) Prerequisite: Physical Education 186 or permission of the instructor.
- 287. **Tennis (Intermediate).** (2-0-1) F. Prerequisite: Physical Education 187 or permission of the instructor.
- 290. **Folk and Square Dance (Intermediate).** (2-0-1) W.
- 291. **Modern Dance (Intermediate).** (2-0-1) W, S. Prerequisite: Physical Education 191 or permission of the instructor.
- 315. **Games for the Elementary School.** (2-0-1) W, S. Prerequisite: For physical education majors only.
- 386. **Swimming (Synchronized).** (2-0-1) F, W, S. Prerequisite: Physical Education 286 or permission of the instructor.

391. **Modern Dance (Composition).** (2-0-1) S. This course acquaints the students with the elements of dance, its theatre, and its application, resulting in individual and group compositions. Prerequisite: Physical Education 291, or permission of instructor. Open to both men and women.
392. **Rhythm Analysis.** (2-0-1) F, W, S. An analysis of, and practice in, the rhythm factors in movement with special emphasis on the basic dance steps and skills. Prerequisite: Physical Education, Women 391 or 224. For physical education majors and minors only, or permission of the instructor. Required of all majors.

PROFESSIONAL COURSES (UNDERGRADUATE)

132. **Leadership in Recreation.** (4-0-4) F, S. Basic philosophy of recreation and of areas, activities and interests in the field of recreation; practical experience in planning and administration. Open to both men and women.
151. **Introduction to Physical Education.** (4-0-4) F, W. A course designed to acquaint the student with physical education as a profession, and to enable the student to assess her qualifications in physical education as a career.
152. **Theory of Motor Learning.** (4-0-4) W, S. A study of the learning process with emphasis on learning of motor skills and recent research in motor learning.
222. **Technique and Theory of Folk, Square, and Ballroom Dance I.** (2-2-2) Su, F. Basic techniques and skills in folk, square and ballroom dance.
223. **Technique and Theory of Modern Dance I.** (2-2-2) F, W. A course which introduces, explores and applies the concept of movement as expression.
224. **Technique and Theory of Modern Dance II.** (2-2-2) W, S. A course which includes creative exploration of movement incorporating floor patterns, non-locomotor and locomotor movement, and elementary rhythmic principles. Prerequisite: Physical Education 223.
232. **Technique and Analysis of Stunts, Tumbling, and Gymnastics.** (2-2-2) S. Participation in various phases of women's gymnastics with emphasis on analyses and uses of activities in teaching and recreation.
233. **Technique of Team Sports—Soccer, Speedball, and Hockey.** (4-0-4) F. Prerequisite: Activity courses in the above sports or permission of the instructor.
234. **Technique of Team Sports—Basketball, Volleyball, and Softball.** (4-0-4) W. Prerequisite: Activity courses in the above sports or permission of the instructor.
235. **Theory of Prescribed Exercises.** (4-0-4) S. Preventive and modified activities for the physically handicapped child. Theory and practice of an orthopedic examination are included. Open to both men and women. Prerequisites: Zoology 225 and Physical Education Men 244.
237. **Technique and Officiating of Soccer and Field Hockey.** (2-2-2) F, S. The development of basic game skills, strategies and officiating techniques in soccer and hockey.
238. **Technique and Officiating of Basketball and Volleyball.** (2-2-2) W. The development of basic game skills, strategies, and officiating techniques in basketball and volleyball.
241. **Physical Education for Today's Elementary School.** (4-0-4) W. An introductory course in elementary school physical education.
245. **Physical Education for Exceptional Individuals.** (4-0-4) W, S. An introduction to various conditions and activity programs suitable to the needs of exceptional individuals. Prerequisite: Physical Education Men 244.
320. **Methods of Teaching Dance.** (4-0-4) W, S. Materials and methods for teaching modern, folk, square and ballroom dance. Prerequisites: Physical Education 222 and 223.

322. **Technique and Theory of Folk, Square and Ballroom Dance II. (2-2-2) W.** A course which presents advanced techniques and skills in folk, square and ballroom dance. Prerequisite: Physical Education 222.
323. **Technique and Theory of Modern Dance III. (2-2-2) F.** A course which places emphasis on intermediate dance techniques, problem-solving and improvisation. Prerequisites: Physical Education 223 and 224.
324. **Technique and Theory of Modern Dance IV. (2-2-2) (Omitted 1971-72)** This course offers advanced dance techniques with emphasis on application of the kinesthetic sense. Prerequisites: Physical Education 223, 224, 323.
325. **Dance Composition. (2-2-2) (Omitted 1971-72)** This course acquaints the students with the elements of dance, its theatre, and its application, resulting in individual and group compositions. Prerequisites: Physical Education 223, 224, 323.
326. **Composition Workshop. (2-2-2) (Omitted 1971-72)** This course gives the more advanced dance student an opportunity to create works for performance and evaluation. Prerequisites: Physical Education 392, 323, 325.
327. **History and Philosophy of the Dance. (4-0-4) (Omitted 1971-72)** A survey of the history of dance from early civilization to present, dance in education, and the philosophic goals of dance.
330. **Methods of Sports. (4-0-4) Su, S.** A general overview of the techniques of the organization and presentation of sports in the physical education program. Prerequisite: Previous experience in team and individual sports is recommended.
331. **Technique and Theory of Fencing and Bowling. (2-2-2) F.** This course is designed for the development of basic skills and knowledge in fencing and bowling.
332. **Technique and Theory of Gymnastics. (2-2-2) (Omitted 1971-72)** This course includes advanced skill development, teaching methods, unit planning, competition and values of gymnastics. Prerequisite: Physical Education 232.
333. **Technique and Theory of Badminton and Tennis. (2-2-2) (Omitted 1971-72)** A study of analyses of skills and the methods of teaching badminton and tennis. Prerequisites: Physical Education 181 and 187.
334. **Technique and Theory of Golf and Track and Field. (2-2-2) (Omitted 1971-72)** This course includes further development of performance skills in golf and track and field, teaching methods specific to the sports activities and analysis of movement skills related to the sports. Prerequisites: Physical Education 183, 194.
335. **Technique and Theory of Aquatics. (2-2-2) (Omitted 1971-72)** A survey of aquatic activities. Emphasis will be placed on mechanical principles of swimming and diving, and methods of teaching aquatic activities. Prerequisite: Equivalency of Junior Life Saving or recommendation of instructor.
336. **Problems in Developing Programs in Modern and Folk Dance. (4-0-4) W, S.** Principles underlying the modern dance art form. Structure and ethnic roots of folk. Materials for course planning, teaching, and accompaniment. Open to both men and women. Prerequisites: Physical Education 191, 291, 391 and 190.
337. **Technique and Theory of Outdoor Team Sports. (2-2-2) (Omitted 1971-72)** A course which provides for the understanding of advanced techniques, skill analyses and progressions as applied to soccer, speedball, field hockey, and softball, with further skill development in these areas. Prerequisites: Physical Education 237 and 176.
338. **Technique and Theory of Indoor Team Sports. (2-2-2) (Omitted 1971-72)** Prerequisite: Physical Education 238.
339. **Extracurricular Competitive Sports Program. (2-2-2) W.** This course will investigate all aspects of the extracurricular physical education program.

341. **Patterns in Action for the Elementary School Child. (4-0-4) (Omitted 1971-72)** A course designed to develop knowledge and skill in teaching games, track and field, and physical fitness activities. Prerequisite: Physical Education 241 or Education 123 and 232.
342. **Patterns in Motion for the Elementary School Child. (4-0-4) (Omitted 1971-72)** A course designed to develop knowledge and skill in teaching rhythmic activities, stunts and tumbling, gymnastics and movement exploration. Prerequisites: Physical Education 241, 392, 232.
343. **Patterns in Programming for the Elementary School Child. (4-0-4) (Omitted 1971-72)** An overview of the total programs in the elementary school. Prerequisites: Physical Education 341 and 342.
346. **Course Planning and Organization of Square and Social Dance. (4-0-4) Su, F.** Theory and methods for junior and senior high schools basic to course planning and teaching. Analysis of music for dance. Survey of literature. Open to both men and women. Prerequisite: Physical Education 190 and 192.
353. **Technique of Individual Sports—Archery, Badminton, Tennis, and Stunts. (4-0-4) Su, S.** An analysis of the basic techniques of archery, badminton, tennis, and stunts. The selection of materials adaptable to the needs of particular groups. Prerequisite: Activity courses in the above sports or permission of the instructor.
355. **Field Work in Recreation. (4-0-4) W.** Students are assigned to a public or private agency in the community for the purpose of organizing and conducting activities or groups under supervision. Open to both men and women.
356. **Outing Crafts. (4-0-4) Su.** A study of the approved techniques for out-of-door living and recreation with opportunity for the student to develop skills in the various areas covered. Open to both men and women.
360. **Introduction to Elementary School Physical Education. (4-0-2)** Physical education as it relates to the total education of the elementary school child with emphasis on the developmental approach.
361. **Physical Education Activities for Elementary Schools. (4-0-4) F, W.** Body mechanics and games; emphasis is on the analysis of and practice in such basic skills as throwing, catching, dodging, striking an object. Prerequisite: Physical Education Women 360. Open to both men and women.
362. **Rhythmical Activities for Elementary Schools. (4-0-4) Su, S.** Dance and creative rhythms; emphasis is on basic locomotor and axial skills in movement as well as the specific skills in folk and square dance. Prerequisite: Physical Education Women 360. Open to both men and women.
363. **Tumbling and Apparatus Activities for Elementary Schools. (4-0-4) W, S.** A study of tumbling and apparatus in the elementary school curriculum. Spotting techniques in mat and apparatus work is stressed. Prerequisite: Physical Education Women 360. Open to both men and women.
396. **Aesthetics of the Dance. (4-0-4) W, S.** A study of dance as a created, performed, and perceived art with discussion of aesthetic principles as related to dance as an art experience. May be used as partial fulfillment of the humanities requirement.
410. **History and Principles of Physical Education. (4-0-4) F, W.**
411. **Organization and Administration of Physical Education. (4-0-4) Su, W, S.** Prerequisite: Physical Education 410.
413. **Objectives of Physical Education and Administration of the Program. (4-0-4) Su, W, S.** This course is intended for students in the physical education minor and the physical education concentration in the elementary curriculum. Prerequisite: Permission of the instructor.

COURSES OPEN TO JUNIORS, SENIORS, AND GRADUATE STUDENTS

- 450. **Evaluation of Physical Education Activities. (4-0-4)** Selection and administration of physical measurements and written tests commonly used in physical education. Open to both men and women.
- 457. **Analysis of Human Motion. (4-0-4)** Su. Study of mechanical principles as they relate to body movement, and of body structure and function as they relate to human motion. Prerequisite: Physical Education 244. Open to both men and women.
- 473. **Planning the Recreation Program. (4-0-4)** W. Exploration of philosophical viewpoints underlying a recreational program; criteria for evaluating the recreational potential of a community. Open to both men and women.

GRADUATE COURSES

(Courses numbered 500-549 inclusive may be taken by a senior whose grade point average is 3.0 or higher, with permission of the instructor and the Dean of the Graduate School. Courses numbered 550 and above are open only to graduate students.)

- 510. **Supervision of Physical Education. (4-0-4)** W. Techniques of supervision; in-service training of classroom and physical education teachers; the relationships with teachers, administrators and the community. Open to both men and women.
- 512. **Application of Psychology to Physical Education. (4-0-4)** W. A study of psychological principles, laws of learning, and their application to physical education. Open to both men and women.
- 514 (459). **Current Trends in the Teaching of Physical Education in the Elementary and Junior High School. (4-0-4)** (Omitted 1971-72.) Materials, organization and program of physical education. Integration of physical education with general education. Prerequisite: Physical Education 241 or equivalent. Open to both men and women.
- 515. **Physical Education—An Aesthetic Approach. (4-0-4)** Su. Study of physical education in relation to certain of the arts and its philosophical and historical evolution and development as related to various cultures. Open to both men and women.
- 519. **Growth and Development Through Physical Education. (4-0-4)** F. Survey of growth and development of children and adolescents as these relate to curriculum planning for physical education. Open to both men and women.
- 551. **Historical Development of Dance. (4-0-4)** S. Relationship of dance to the other arts. Emphasis is given to the socio-cultural implications of the arts and the specific role of dance. Credit applicable only to the Group III requirement for the degree M.S. in Ed.
- 560. **Advanced Theory and Analysis of Team Sports. (4-0-4)** Su. Study of techniques, organization, and team strategy of selected team sports as they relate to the learner and the physical education program. Prerequisite: Proficiency in the selected sports.
- 561. **Advanced Theory and Analysis of Individual Sports. (4-0-4)** (Omitted 1971-72) Study of techniques, organization and game strategy selected in individual sports as they relate to the learner in the physical education program. Prerequisite: Proficiency in the selected sports.
- 562. **Problems in the Administration of Girls' Physical Education. (4-0-4)** S. Opportunity for teachers and administrators to review the current ideas and best practices in the field of physical education, also problems in the administrative field.
- 563. **Philosophy of Physical Education. (4-0-4)** F. Study of principles of physical education with application to current problems in the field. Open to both men and women.
- 595. **Thesis. (Arr.-Arr.-4)**

PHYSICAL SCIENCE**UNDERGRADUATE COURSES**

- 340. Methods of Teaching Physical Sciences. (4-0-4) W.** The presentation of science lessons and the examinations of current literature and new approaches to chemistry and physics. Prerequisite: Admission to teacher education and junior standing.
- 341. Methods of Teaching Physical Science for Minors. (2-0-2) W.** The presentation of science lessons as well as the examination of current literature and new approaches to teaching chemistry and physics. Prerequisites: Admission to teacher education and junior standing. Enrollment restricted to minors in chemistry and physics who do not have credit for Physical Science 340, Geography 340, or Life Science 340.

GRADUATE COURSES

(Courses numbered 500-549 inclusive may be taken by a senior whose grade point average is 3.0 or higher, with permission of the instructor and the Dean of the Graduate School. Courses numbered 550 and above are open only to graduate students.)

- 540. Special Problems in Physics Theory. (2-4-4) F.** A special institute course covering both selected topics in modern physics and methodology in physics. Prerequisite: Attendance at the 1971 Summer Institute in Physics for senior high school teachers.

PHYSICS**UNDERGRADUATE COURSES**

Note: Physics 110, 111, and 112 are intended for students desiring a cultural exposure to physics but lacking the science and mathematics background for enrollment in the Physics 130, 131, 132 series. (Students with more extensive background should consider the latter sequence.) These courses satisfy the laboratory science requirement.

- 100 (Physical Science 100). Physics. (2-4-4)** Basic concepts of physics are presented through the study of topics selected from physics and astronomy. Restricted to students in curricula for elementary and junior high school teachers.
- 110. Basic Physics I. (2-4-4) F.** Macroscopic universe; force vectors; torques in equilibrium; free-fall and vehicular acceleration problems; Newton's 2nd Law.
- 111. Basic Physics II. (2-4-4) W.** Space phenomena; work and energy; atomic structure; study of light. Prerequisite: Physics 110 or permission of instructor. Most of the content of Physics 110 and 111 is also covered in Physics 130 at a faster pace. Physics 110 and 111 could replace Physics 130 in the 130, 131, 132 sequence. Credit may not be accepted toward a degree for Physics 110, 111 and for 130.
- 112. Basic Physics III. (2-4-4) S.** Relativity; electricity; electromagnetism. Prerequisite: Physics 110 and 111 or permission of instructor.
- 121. Physics for Speech Students. (2-4-4) W.** Sound and acoustics as applied to speech correction. Enrollment limited to speech correction majors or minors.
- 130, 131, 132. First Year College Physics. (2-4-4 each course)** Physics 130, mechanics; 131, electricity and magnetism; 132, kinetic theory and heat; special relativity; introduction to atomic and nuclear physics. Acceptable as a year of laboratory science in any curriculum. Physics 130 is a prerequisite to Physics 131 and 132. Physics 131 and 132 may be taken concurrently.

236. **Geometrical, Physical, and Quantum Optics. (2-4-4)** Su, F, S. Continuation of first year physics. Simple harmonic motion; wave motion; geometrical optics; interference; diffraction; polarization; quantum optics. Prerequisite: Physics 130 and 131. Co-requisite: Mathematics 135 or permission of the instructor.
239. **Mechanics I. (4-0-4)** Su, F, W. One dimensional motion; simple harmonic motion; line integral computation of work; vector analysis in coordinate systems; conservative fields. Prerequisite: First year college physics and Mathematics 135, co-requisite Mathematics 235.
240. **Mechanics II. (4-0-4)** W, S. Forced and damped harmonic motion; central force motion; gravitational fields and potential; accelerated coordinate systems; vibrating string. Prerequisite: Physics 239.
300. **Astronomy I. (4-0-4)** Su, S. An introduction to: the solar system; stars; starlight; interstellar material; evolution of stars; galaxies. Open to all students. Does not count towards a physics major or minor.
- 315 (250). **Electronics. (2-6-4)** Su, S. A study of the fundamentals of tube and transistor electronics. Emphasis on scientific applications. Prerequisite: First year college physics and Mathematics 135.
341. **Electricity and Magnetism I (4-0-4)** F. Coulomb's Law; electric fields; potential; Gauss' Law; capacitance; dielectrics; electrostatic problems; electrostatic energy; DC circuits. Prerequisite: First year college physics and Mathematics 236.
342. **Electricity and Magnetism II. (4-0-4)** W. Magnetic field due to steady currents; inductance; changing electric currents; magnetic materials; L, R and C circuits; Maxwell's Equations. Prerequisite: Physics 341.

COURSES OPEN TO JUNIORS, SENIORS, AND GRADUATE STUDENTS

- 461, 462. **Experimental Physics. (Arr-8-4 each course)** W. Experiments from various phases of physics. Emphasis is placed upon selection, procedure, analyzing results, and reporting. Prerequisite: First year college physics.
465. **Heat and Thermodynamics. (4-0-4)** Su, S. Thermometry, thermodynamic laws; changes of phase; gas laws; adiabatic transformations; entropy, kinetic theory and statistical mechanics. Prerequisite: First year college physics and one year of calculus.
466. **Quantum Mechanics and Atomic Physics I. (3-3-4)** Su, S. Schrodinger equation, uncertainty principle; atomic spectroscopy, outer electrons. Prerequisite: First year college physics and one year of calculus.
467. **Quantum Mechanics and Atomic Physics II. (3-3-4)** F. Exclusion principle; angular momentum; atomic spectroscopy, inner electrons; perturbation. Prerequisite: Physics 466.
468. **Nuclear Physics. (4-0-4)** W. Fundamental nuclear particles; nuclear forces and interactions; mass-energy equivalence; fission; fusion; radioactivity; theoretical nuclear models. Prerequisite: Physics 466 or 467 or permission of the instructor.
469. **Solid State Physics. (4-0-4)** S. Crystal structure; thermal properties of solids; free electron theory and band theory of metals; semiconductors and insulators; crystal imperfections. Prerequisite: Physics 466 or 467 or permission of the instructor.
- 480, 481. **Independent Study. (Arr-8-4 each course)** Su, S. Selected problems based on the student's interests. Admission and assignment of problems by arrangement. Laboratory, reading, and conference. Prerequisite: Permission of the instructor.

GRADUATE COURSES

(Courses numbered 500-549 inclusive may be taken by a senior whose grade point average is 3.0 or higher, with permission of the instructor and the Dean of the Graduate School. Courses numbered 550 and above are open only to graduate students.)

- 510, 511. Basic Physics. (2-4-4 each course)** Su, F. Fundamental concepts of first year physics and introductory concepts in nuclear physics and relativity theory. Prerequisite: For participants in NSF Summer Institute or similarly qualified science teachers.
- 520. Mathematical Physics I. (4-0-4)** Su, F. Special differential equations; vectors; tensors; matrices; eigen equations; diagonalization; calculus of variations. Prerequisite: Physics 240 and 342.
- 534. Theoretical Mechanics. (4-0-4)** Su, W. Mechanics of a system of particles; variational principles and Lagrange's equations; rigid-body kinematics; special relativity. Prerequisite: Physics 240 or equivalent and Mathematics 351.
- 535. Theoretical Mechanics. (4-0-4)** S. Rigid-body motion; Hamilton's equations; canonical transforms; small oscillations; continuous systems. Prerequisite: Physics 534.
- 540. Electrodynamics I. (4-0-4)** F. Electrostatic; general methods of solving potential problems; boundary value problems; multipoles, dielectrics; magnetostatics. Prerequisite: Physics 342.
- 541. Electrodynamics II. (4-0-4)** W. Maxwell's equations; electromagnetic waves; wave guides and resonant cavities; radiation and diffraction; special theory of relativity. Prerequisite: Physics 540.
- 542. Electrodynamics III. (4-0-4)** S. Relativistic particle dynamics; collisions; radiation by moving charges; multipole fields; radiation damping, self-fields, scattering and absorption. Prerequisite: Physics 541.
- 560. Quantum Mechanics I. (4-0-4)** F. Eigen functions of the Schrodinger equation for various central fields; angular momentum; perturbations dependent on and independent of time. Prerequisite: An undergraduate major in physics.
- 561. Quantum Mechanics II. (4-0-4)** W. The hydrogen atom and extension of the Schrodinger equation to other atoms and effects; scattering; matrices; spins. Prerequisite: Physics 560.
- 562. Quantum Mechanics III. (4-0-4)** S. Perturbation theory; identical particles; quantum electrodynamics. Prerequisite: Physics 561.
- 580. Independent Study in Physics. (Arr-8-4)** Su, S. Selected problems based upon the student's background and interests. Laboratory, reading, conference, and oral reports. Prerequisite: Permission of the instructor.
- 590. Mathematical Physics II. (4-0-4)** F, W. Scalar and vector fields and the variational principle; complex variables; Riemann surfaces; calculus of residues; Fourier transforms. Prerequisite: Physics 520.
- 591. Mathematical Physics III. (4-0-4)** W. Boundary conditions and eigen functions; Green's functions; integral equations; kernels; La Place's and Poisson's Equations. Prerequisite: Physics 590.
- 595. Thesis. (4 q. hrs.)**

POLITICAL SCIENCE

UNDERGRADUATE COURSES

- 100. Introduction to Political Science. (4-0-4)** The basic concepts of Political Science: types of governmental structures and functions, political processes, political philosophies.
- 101. Participation in Political Campaigns. (1-Arr-1)** F, state and national election years. (Pass-Fail) (Omitted 1971-72) Active participation in the electoral campaign of an individual candidate for state or national office or for the candidates of one political party. May be repeated with permission of the head of the Political Science Department.

110. **American National Government: Constitutional Foundations. (4-0-4)** The fundamental principles of the American Constitutional system: federalism, civil liberties, citizenship, elections, political parties.
111. **American National Government: Policy Making and Administration. (4-0-4)** Congress, the Presidency, the bureaucracy, the judiciary; policy making and administration in foreign affairs, defense, business regulation, housing, etc. Prerequisite: Political Science 100 or 110.
200. **Bibliography of Political Science. (1-2-2)** F. A survey of library materials and library research techniques in political science.
220. **Introduction to International Relations. (4-0-4)** Su, F. An examination of the nature of the nation-state system and of the sources of conflict in the international community.
- 240 (465). **Introduction to Public Administration. (4-0-4)** Su, W. A study of the growth, principles and problems of public administration and its relationship to politics. Prerequisite: Political Science 111.
- 260 (112). **State and Local Government. (4-0-4)** The legal authority, structure, leadership and functions of state, county and city governments; an analysis of the Illinois state constitution.
- 320 (370). **American Foreign Policy. (4-0-4)** F. An analysis of major American foreign policy problems and the factors shaping foreign policy decisions. Prerequisite: Political Science 220 or permission of the instructor.
- 321 (221). **Comparative World Politics. (4-0-4)** W. An analysis of world politics since World War II with an emphasis upon the impact of continuing crises upon the policies of the major world powers. Prerequisite: Political Science 220 or permission of the instructor.
- 322 (222). **International Organization. (4-0-4)** S. An analysis of the development, scope and functions of general and regional international organizations. Prerequisite: Political Science 220 or permission of the instructor.
330. **Comparative Political Systems: The United Kingdom. (4-0-4)** F. The government and politics of the United Kingdom; an introduction to general comparative concepts. Prerequisite: Political Science 100 or permission of the instructor.
331. **Comparative Political Systems: Western Europe. (4-0-4)** Su, W. The government and politics of France, West Germany, and/or other Western European countries; the application of general comparative concepts. Prerequisite: Political Science 100 or permission of the instructor.
332. **Comparative Political Systems: The U.S.S.R. (4-0-4)** S. The government and politics of the Union of Soviet Socialist Republics; the application of general comparative concepts. Prerequisite: Political Science 100 or permission of the instructor.
- 333 (481). **Comparative Political Systems: Latin America. (4-0-4)** S. The government and politics of Latin American countries; the application of general comparative concepts. Prerequisite: Political Science 100 or permission of the instructor.
334. **Comparative Political Systems: The Middle East. (4-0-4)** Su, F. The governments and politics of the countries of the contemporary Middle East with an emphasis upon the problems of political modernization. Prerequisite: Political Science 100 or permission of the instructor.
335. **Comparative Political Systems: Africa. (4-0-4)** W. The political systems and the patterns of development in Africa with an emphasis upon the processes of political modernization in contemporary Africa. Prerequisite: Political Science 100 or permission of the instructor.
336. **Comparative Political Systems: Asia. (4-0-4)** S. The political systems of the major nations of Asia with an emphasis upon nationalism, political processes and institutions. Prerequisite: Political Science 100 or permission of the instructor.

350. **Introduction to the Legal System. (4-0-4)** Su, S. Judicial institutions and processes with emphasis upon the selection of judges, judicial decision making, and proposals for reform of the judiciary. Prerequisite: Political Science 110 or permission of the instructor.
364. **Impact of Urbanism and Metropolitanism on State and Local Government. (4-0-4)** W. An examination of the effects of urbanism and metropolitanism on state and local governments in the United States. Prerequisite: Political Science 260 or permission of the instructor.
- 371 (366). **Political Parties and Elections. (4-0-4)** F. An examination of the structure, function, and role of political parties in the United States. Prerequisite: Political Science 110 or permission of the instructor.
- 372 (365). **Political Behavior. (4-0-4)** W. An analysis of individual and group political behavior with an emphasis upon current research. Prerequisite: Political Science 110 or permission of the instructor.
- 373 (367). **Interest Groups. (4-0-4)** S. An analysis of the role and techniques of labor, business, agrarian, ethnic and other groups in the political process. Prerequisite: Political Science 110 or permission of the instructor.
- 374 (369). **The Legislative Process. (4-0-4)** S. An examination of the institutional structures and functions of legislative bodies. Prerequisite: Political Science 111 or permission of the instructor.
399. **Summer Study in Ireland. (0-0-9)** Su. Independent research in political science. Six weeks of residence in the Republic of Ireland will be required. Prerequisite: Junior or senior standing.

COURSES OPEN TO JUNIORS, SENIORS, AND GRADUATE STUDENTS

450. **International Law. (4-0-4)** S. An analysis of the historical bases and current trends in international law and its role in current world politics. Prerequisite: Political Science 220 or permission of the instructor.
451. **The Supreme Court and the Federal System. (4-0-4)** F. An analysis of Supreme Court decisions on judicial review, federalism, powers of Congress, powers of the President, contracts, commerce, taxation. Prerequisites: Political Science 110, 111, 350 or permission of the instructor.
452. **The Supreme Court and Civil Rights. (4-0-4)** Su, W. An analysis of the history, the present status and the future prospects of civil liberties as interpreted by the Supreme Court. Prerequisites: Political Science 110, 111, 350 or permission of the instructor.
453. **The Judicial Process. (4-0-4)** S. An analysis of the behavior of judicial bodies with an emphasis upon recent behavioral research in the area of judicial decision-making. Prerequisites: Political Science 110, 111, 350 or permission of the instructor.
460. **Public Administration: Organization and Process. (4-0-4)** Su, W. A study of the dynamics of organization origin and policy development; a survey of contemporary theory and its significance. Prerequisite: Political Science 240 or permission of the instructor.
461. **Statistics and Research Techniques in the Behavioral Sciences. (4-0-4)** (Omitted 1971-72) Programmed as Social Science 461.
475. **Methods of Political Analysis. (4-0-4)** F. The evolution of concepts of political analysis; types of political analysis; the formation of concepts, hypotheses, theories and research problems. Prerequisite: Twelve quarter hours of political science or permission of the instructor.
480. **Politics of the Emerging Nations. (4-0-4)** W. A comparative survey of the politics, policies, and problems of the emerging nations in Africa, Asia, the Middle East, and Latin America. Prerequisites: Political Science 100 and one 300-level course in comparative political systems or permission of the instructor.

490. **Political Theory: Ancient and Medieval. (4-0-4) F.** The origins and evolution of major concepts in political thought from the time of Pericles through the Conciliar Movement. Prerequisite: Twelve quarter hours of political science or permission of the instructor.
491. **Political Theory: Renaissance and Modern. (4-0-4) W.** The study of political thought from the time of Niccolo Machiavelli through Karl Marx. Prerequisite: Twelve quarter hours of political science or permission of the instructor.
492. **Contemporary Political Theory. (4-0-4) S.** Contemporary concepts in Western political thought with an emphasis upon the development of communism, fascism and democracy. Prerequisite: Twelve quarter hours of political science or permission of the instructor.
493. **Latin American Political Theory. (4-0-4) S.** The sources and evolution of Latin American political thought with an emphasis upon contemporary ideologies of reform and revolution. Prerequisite: Twelve quarter hours of political science or permission of the instructor.
495. **The Literature of Political Science. (2-0-2) S.** A comprehensive survey of selected works in the literature of political science. Prerequisite: Sixteen quarter hours of upper division courses in political science.

GRADUATE COURSES

(Courses numbered 500-549 inclusive may be taken by a senior whose grade point average is 3.0 or higher with permission of the instructor and the Dean of the Graduate School. Courses numbered 550 and above are open only to graduate students.)

- 500, 501. **Administrative Internship. (0-8-4 each course)** A student will serve as an intern in a federal, state, county, municipal or party organization or agency appropriate to his area of concentration.
521. **Contemporary Problems in International Politics. (4-0-4) W.** An analysis of problems in international politics since World War II. Prerequisite: Political Science 220, 320 or permission of the instructor.
530. **Seminar in Western Political Systems. (4-0-4) S.** An analysis of selected topics in the political processes and structures of Western nations. Prerequisite: Twelve quarter hours in comparative political systems or international relations or permission of the instructor.
531. **Seminar in Political Modernization. (4-0-4) F.** An analysis of selected topics relating to the political processes and structures of the developing nations. Prerequisite: Twelve quarter hours in comparative political systems or international relations or permission of the instructor.
- 540 (563). **Seminar in Public Administration. (4-0-4) S.** The environment of public administration, functions of the administrator, organizational theory and practice, personnel administration, administrative law. Prerequisite: Political Science 240, 460 or permission of the instructor.
- 556 (570). **Contemporary Constitutional Development. (4-0-4) S.** A case-book approach to an analysis of the influence of the Supreme Court and the development of constitutional law. Prerequisites: Political Science 350, 451 or 452, 453 or permission of the instructor.
562. **Seminar in Urban Development. (4-0-4) Su, F.** An analysis of the patterns of development of American cities with an emphasis upon the political ramifications of urban areas. Prerequisites: Political Science 260, 460 or permission of the instructor.
- 571 (565). **Seminar in Political Analysis. (4-0-4) W.** An analysis of the logic of scientific inquiry and the construction and carrying out of systematic research designs. Prerequisite: Political Science 475 or permission of the instructor.
572. **Seminar in Political Behavior. (4-0-4) Su, S.** An analysis of political behavior; the formation of opinions, roles and personality; democratic and authoritarian personality types. Prerequisite: Political Science 372 or permission of the instructor.

590. **Seminar in Contemporary Political Theory. (4-0-4) W.** An examination of the development of political theory since World War I with an emphasis upon individual research. Prerequisite: Twelve quarter hours of political science.
595. **Thesis. (Arr.-Arr.-4)**
599. **Independent Study. (Arr.-Arr.-4)** An intensive study in some specialized area of interest in Political Science; the student must present an individual study plan for approval. Prerequisite: Twelve quarter hours of graduate courses in political science.

PSYCHOLOGY

UNDERGRADUATE COURSES

231. **Introduction to Psychology. (4-0-4)** A survey of methods, concepts, and principles in psychology.
234. **Advanced General Psychology. (4-0-4)** A continuation of Psychology 231 with emphasis on a more detailed study of learning, perception, and motivation. Prerequisite: Psychology 231.
261. **Statistical Methods of Psychology. (4-0-4)** Application of statistical methods to behavioral data. Prerequisite: Psychology 231. Not open to students who have taken or are enrolled in Mathematics 470 or 471.
331. **Physiological Psychology. (4-0-4) F.** A survey of the physiological correlates of the psychological behavior in man and lower organisms. Prerequisite: Psychology 231.
340. **Methods of Teaching Psychology. (4-0-4) F.** Problems and procedures in preparing presentations to secondary students in the field of psychology; supervised simulated teaching experience. Prerequisites: Psychology 231 plus sixteen quarter hours in psychology. Admission to teacher education.
350. **Developmental Psychology. (4-0-4)** Methods of research in child development and the effects of biological, social, and psycho-social factors on normal and deviant behavior. Prerequisite: Psychology 231.
351. **Applied Psychology. (4-0-4) W.** Psychological principles applied to the professions, industry, and retail business. Prerequisite: Psychology 231.
352. **Adolescent Psychology. (4-0-4)** The psychology of the adolescent in relation to: family; friends; the opposite sex; delinquent behavior; growth and development; attitudes; interests; values. Prerequisite: Psychology 231.
353. **Industrial Psychology. (4-0-4) Su, W, S.** Applications of the methods and principles of psychology to industrial situations. Prerequisite: Permission of the instructor.
359. **Theories of Personality. (4-0-4) W, S.** A comparison of the major theories of personality with emphasis on the methods used in theory validation. Prerequisite: Psychology 231.
360. **Psychological Measurements: Fundamental Principles. (4-0-4)** Statistical background, administration, interpretation and evaluation of interest, aptitude, intelligence and personality tests. Prerequisite: Psychology 231.
362. **Psychology of Learning. (4-0-4) W.** Introduction into basic principles and concepts of learning with particular emphasis on the application to problems of human learning. Prerequisite: Psychology 231. This course does not substitute for Education 332.
381. **Experimental Psychology: Learning. (2-4-4) F, S.** Research projects in animal learning, acquisition of psychomotor skills and verbal learning. Provides opportunity to design experiments, analyze data, and write scientific reports. Prerequisites: Psychology 231 and 261.
382. **Experimental Psychology: Perception. (2-4-4) Su, W.** Study of the development and organization of perception in man. Provides opportunity to conduct demonstrations and experiments. Prerequisites: Psychology 231, 234, and 261.

- 390, 391, 392. **Independent Study in Psychology.** (Arr.-Arr.-4 each course) F, W, S. Admission and assignment of problems by arrangement. Laboratory, reading, and weekly conference. Prerequisite: Permission of the instructor.
425. **History and Systems of Psychology.** (4-0-4) F. A survey of contemporary systems and the history of psychology as an experimental science. Prerequisite: Permission of the instructor.

COURSES OPEN TO JUNIORS, SENIORS, AND GRADUATE STUDENTS

450. **Psychology of Exceptional Children.** (4-0-4) Su, W, S. Psychological diagnosis of, and therapeutic programs for, children who deviate from the normal. Prerequisite: Psychology 231.
451. **Abnormal Psychology.** (4-0-4) Su, W, S. An examination of etiology, diagnosis, treatment and prevention of neuroses, psychoses, and psychosomatic disorders. Prerequisite: Psychology 231.
452. **Psychological Measurements: Intelligence Testing.** (4-0-4) Su, F. Advanced study of individual intelligence tests; practice in administration and interpretation. Prerequisites: Psychology 231 and 360.
455. **Mental Hygiene.** (4-0-4) Stresses the problem of maintaining mental health as related to the home, school, civic and other social situations. Prerequisite: Psychology 231.
- 457 (447). **Social Psychology.** (4-0-4) Su, W, S. A study of individual behavior and psychological processes in social settings. Empirical research is emphasized. Prerequisite: Psychology 231.
461. **Advanced Statistics in Psychology.** (4-0-4) Su. An advanced course in descriptive and inferential statistics with emphasis on experimental design. Applications to problems in psychology. Prerequisite: Psychology 261 or equivalent.
462. **Theories of Learning.** (4-0-4) S. A survey and comparison of theories of learning. Prerequisite: Psychology 362 or permission of the instructor.

GRADUATE COURSES

(Courses numbered 500-549 inclusive may be taken by a senior whose grade point average is 3.0 or higher, with permission of the instructor and the Dean of the Graduate School. Courses numbered 550 and above are open only to graduate students.)

500. **Human Operant Conditioning.** (4-0-4) W. An introduction to the method, design and some of the findings of human operant conditioning.
501. **Psychological Measurements: Actuarial Techniques.** (4-0-4) F. Advanced study of self report personality tests: practice in administration and interpretation. Prerequisites: Psychology 261 and 452.
502. **Psychological Measurements: Projective Techniques.** (4-0-4) W. Study of perceptual personality tests: Practice in administration and interpretation. Prerequisites: Psychology 359 and 501; or permission of the instructor.
503. **The School Psychologist.** (4-0-4) S. An introduction into the activities of the school psychologist. Prerequisite: Psychology 350.
504. **Therapeutic Practices and Procedures.** (4-0-4) Su. The understanding and skill development of therapeutic procedures used by school psychologists. Prerequisite: Psychology 350.
560. **Quantitative Methods in Psychology.** (4-0-4) F. A continuation and extension of Psychology 461. Includes advanced experimental designs and analyses, multiple and partial correlation, curve fitting techniques and non-parametric statistics. Prerequisite: Psychology 461.

570. **Motivation. (4-0-4)** S. An introduction to theory and research related to biological and psychological motivation. Prerequisites: Psychology 331 or permission of the instructor.
571. **Comparative Psychology. (4-0-4)** Su. A comparison of psychological processes in various forms of animal life, including man. Prerequisite: Permission of instructor.
581. **Advanced Experimental I. (2-4-4)** F. A survey of the basic findings and theories related to sensory and perceptual processes. Prerequisites: Psychology 382 and 331; or permission of the instructor.
582. **Advanced Experimental II. (2-4-4)** W. Lecture with laboratory. The course covers basic laboratory techniques involved in the study of operant conditioning. Eight standard laboratory exercises plus original experimentation. Prerequisite: Psychology 382 or permission of instructor.
590. **Independent Research. (Arr.-Arr.-4)** Advanced study on a topic selected by the graduate student, subject to approval by his advisor. Laboratory research or selected readings monitored periodically by the instructor. Prerequisite: Permission of instructor.
591. **Field Study. (Arr.-Arr.-4)** Practical work in an environment approved by the department and in line with the student's field of interest. Particularly designed for students in school psychology. Prerequisite: Permission of the instructor.
595. **Thesis. (Arr.-Arr.-4 or 8)**

RUSSIAN (See Foreign Languages)

SOCIAL SCIENCE

UNDERGRADUATE COURSES

340. **Methods and Materials in the Social Studies in the Secondary School. (4-0-4)** Aims and objectives of social studies teaching; nature and scope of social studies materials; methods employed in teaching the social studies. Prerequisite: Admission to teacher education and junior standing.
- 440, 441. **Contemporary Problems. (Topics to be determined.) (4-0-4 each course)** Su.

COURSES OPEN TO JUNIORS, SENIORS, AND GRADUATE STUDENTS

461. **Statistics and Research Techniques in the Behavioral Sciences. (4-1-4)** F, S. Basic methods of statistical research, including measures of central tendency, dispersion, normal and binomial distribution, correlation, sampling, etc.

GRADUATE COURSES

(Courses numbered 500-549 inclusive may be taken by a senior whose grade point average is 3.0 or higher, with permission of the instructor and the Dean of the Graduate School. Courses numbered 550 and above are open only to graduate students.)

540. **Problems in Teaching Social Studies. (Arr.-Arr.-2, 3, or 4)** Intensive study of special problems and trends in the social studies curriculum and improved teaching techniques. Prerequisite: Teaching experience in the social studies or permission of the instructor. May be taken more than once with permission of the division head.

SOCIOLOGY

UNDERGRADUATE COURSES

271. **Principles of Sociology. (4-0-4)** Study of basic sociological concepts; and social processes; structural and functional analysis of social groups.

272. **Social Problems and Social Trends. (4-0-4)** Analysis of the nature of social problems, theories, deviant behavior; social disorganization; adjustment mechanisms and social control. Prerequisite: Sociology 271.
360. **Introduction to Social Work. (4-0-4)** F, S. A survey of principles, techniques, and fields of social work. Prerequisite: Sociology 271.
362. **Demography. (4-0-4)** W. A descriptive and theoretical analysis of the dynamics of population with emphasis on population trends. Prerequisite: Sociology 271.
365. **Social Systems and Social Roles. (4-0-4)** S. Social psychological theories; social status and social roles; application of role theories in the study of socialization and personal adjustment. Prerequisite: Sociology 271.
366. **The Sociology of Religion. (4-0-4)** S. Study of the development of religious and functional significance of beliefs and rituals. Prerequisite: Sociology 271.
368. **Public Opinion and Propaganda. (4-0-4)** F. Analysis of the fundamentals of communication, the opinion making process, and methods of opinion and attitude manipulation and measurement. Prerequisite: Sociology 271.
370. **Dynamics of Collective Behavior. (4-0-4)** Su, W. Analysis of transitory phenomena, including publics, audiences, crowds, mobs, riots, and social movements. Prerequisite: Sociology 271.
380. **The Sociology of Rural Life. (4-0-4)** W. Study of patterns of land settlement, social interaction, social structure and function, and social problems unique to the rural way of life. Prerequisite: Sociology 271.
381. **The Sociology of Urban Life. (4-0-4)** S. Analysis of the social structure and function, social processes, and planning and development of the city. Prerequisite: Sociology 271.
399. **Summer Study in Ireland. (0-0-9)** Su. Independent research in sociology. Six weeks of residence in the Republic of Ireland will be required. Prerequisite: Sociology 271 and junior or senior standing.
425. **The Sociology of Education. (4-0-4)** W. Sociological analysis of the structure and function of educational institutions. Emphasis on social processes, patterns, and trends. Prerequisite: Sociology 271.

COURSES OPEN TO JUNIORS, SENIORS, AND GRADUATE STUDENTS

452. **The Development of Sociological Thought. (4-0-4)** W. This course treats the growth of social thought from the pre-scientific to the modern empirical approach based on current modes of sociological inquiry. Restricted to majors and minors in sociology and social science.
455. **The Community. (4-0-4)** W. Analysis of community structure and function, ecological patterns and processes, social problems, and social action. Prerequisite: Sociology 271.
458. **Work and Leisure in Mass Society. (4-0-4)** F. Study of patterns and theories of work and leisure; emphasis on impact of the industrial and technological revolution, and cybernation. Prerequisite: Sociology 271.
461. **Statistics and Research Techniques in the Behavioral Sciences. (4-0-4)** F, S. Programmed as Social Science 461. No credit toward graduation for a student with credit in Economics 461 or Political Science 461.
470. **Sociology of Medicine. (4-0-4)** W. Analysis of the relationship between pathology and social structure, function, and processes. Prerequisite: Sociology 271.
472. **Social Stratification. (4-0-4)** F. A descriptive and theoretical analysis of social stratification; study of the problems created by differential status, power, and social mobility. Prerequisite: Sociology 271.

473. **Marriage and the Family. (4-0-4)** Background of the modern family; the impact of culture and social change; personality factors involved in marriage; family disorganization. Prerequisite: Sociology 271.
474. **The Social Problems of Minority Groups. (4-0-4)** Su, S. Racial and cultural minorities; causes and consequences of prejudice and discrimination; institutional patterns of intergroup relations; trends. Prerequisite: Sociology 271.
475. **Crime and Juvenile Delinquency. (4-0-4)** The problems of crime and delinquency; etiological factors in crime and delinquency; prevention, penology, and rehabilitation. Prerequisite: Sociology 271.
- 490, 491. **Individual Problems in Sociology. (4-0-4 each)** Su, F, S. Analysis of selected current social problems with emphasis on sociological research techniques. Restricted to majors in sociology and social science.

GRADUATE COURSES

(Courses numbered 500-549 inclusive may be taken by a senior whose grade point average is 3.0 or higher, with permission of the instructor and the Dean of the Graduate School. Courses numbered 550 and above are open only to graduate students.)

503. **Contemporary Sociological Theory. (4-0-4)** F. Consideration of the major contemporary sociological theories and conceptual orientations.
505. **Methods of Quantitative Analysis. (4-0-4)** F. Study of the methods of inquiry, collection, and analysis of data in the behavioral sciences.
507. **Sociological Research Methods. (4-0-4)** W. Emphasis on research methods and design, the selection of samples, and the collection, interpretation, and analysis of data.
510. **Social Organization. (4-0-4)** S. Analysis of social groups in the context of social structure, latent and manifest functions, social processes, and the nature of recruitment.
520. **Urban Social Problems. (4-0-4)** F. In-depth analysis of major social problems of the city. The generation of hypotheses and research proposals will be emphasized.
530. **The School and the Community. (4-0-4)** Su. Analysis of the relationship between the school and the community; special emphasis on the decision process and the impact of social problems.
532. **Schools and the Urban Crisis. (4-0-4)** Su. Emphasis on the relationship between the problems of the school and the city and the role of the school as an instrument of social change.
540. **Problems of the American Family. (4-0-4)** S. Investigation of the various theoretical orientations and methodological techniques in the study of family problems; analysis of patterns, trends, and adjustment mechanisms.
556. **Sociological Aspects of Gerontology. (4-0-4)** S. Review of current gerontological theories and research; consideration of structural and functional aspects of the social order as related to the aging process.
560. **Sociological Analysis of Juvenile Delinquency. (4-0-4)** W. Advanced study of the theory, treatment, and prevention of juvenile delinquency.
570. **Sociological Analysis of Crime. (4-0-4)** Su. A review of approaches to the study of crime and an analysis of theories of criminal behavior; penal theories, practices, and problems will be analyzed.
580. **Social Change. (4-0-4)** W. Analysis of theories of social change; emphasis on the major forces in social change as revealed by historical examples.
595. **Theses. (Arr.-Arr.-8)**

SPEECH**UNDERGRADUATE COURSES**

- 101, 102, 103. **Applied Forensics. (1-0-1 each course)** Individual study and work in the various activities of the forensics program. Prerequisite: Permission of the department head.
131. **Speaking in Public. (4-0-4)** Fundamental principles of selecting, analyzing, evaluating, organizing, developing, and communicating information, evidence, and points of view.
140. **Parliamentary Law. (2-0-1)** The history, theory, and practice of democratic, orderly conduct of business through application of accepted rules of procedure.
230. **Persuasion. (4-0-4)** Study of attention, credibility, emotion, identification, motivation, rationalization, and suggestion as means of influencing beliefs and acts of others. Prerequisite: Speech 131 or permission of department head.
232. **Discussion. (4-0-4)** Study of the nature of discussion and bases of belief: subject-problems, preparation, process, leadership, participation, types and forms, and evaluation.
- 234 (332). **Debate. (4-0-4)** F, W, S. Study of the responsibility of the advocate in investigation and analysis of evidence; structure of argument; reasoning and refutation. Prerequisite: Speech 131 or permission of department head.
252. **Introduction to Mass Communication (Broadcasting). (4-0-4)** Survey of the origin and growth of broadcasting, the social basis of radio, TV, and motion pictures and the physical nature of mass media.
254. **Understanding Media. (4-0-4)** F. A historical survey of classic motion picture films, radio programs, and television productions. A study of mass media.
- 301, 302, 303. **Applied Forensics. (1-0-1 each course)** Individual study and work in the various activities of the forensics program. Prerequisite: Permission of the department head.
317. **Oral Communication Theories. (4-0-4)** F. Historical survey of major theorists and theories.
320. **Speech Criticism. (4-0-4)** (Omitted 1971-72) Comparative study in which standards of judgment deriving from the social interaction of a speech situation are applied to public addresses to determine their immediate or delayed effect upon audiences and society. Prerequisite: Speech 230.
323. **Advanced Public Speaking. (4-0-4)** S. Principles and techniques of audience analysis, topic analysis and preparation, communication theories, and performance and evaluation. Prerequisites: Speech 131 and 230.
330. **Interview and Conference. (4-0-4)** The selection, organization, and oral presentation of ideas and supporting materials in interview, conference, and inter-personal situations. Prerequisite: Speech 131.
340. **Teaching Speech. (4-0-4)** F, W, S. Study of problems, methods, and materials in teaching oral communication; teaching and directing co-curricular activities. Prerequisites: Twenty quarter hours in speech. Admission to teacher education and junior standing.
352. **Radio Production. (4-0-4)** W. Study of equipment and techniques involved in producing radio programs: announcing, scripting, writing, and producing.
354. **Television Production. (4-0-4)** Su, S. Study and practice of adapting demonstrative, documentary and dramatic communications to the television medium. Exercises using studio TV equipment.
400. **Independent Study. (Arr.-Arr.-4)** Consideration of special problems in speech and speech education. Student presents individual study plan for researching history, theory, and/or practice of oral communication. Prerequisite: Permission of department head.

447. **Small Group Communication. (4-0-4)** W. An analysis of theoretical constructs in group dynamics, leadership, participation, and evaluation of group performance.

COURSES OPEN TO JUNIORS, SENIORS, AND GRADUATE STUDENTS

452. **Advanced Theory of Mass Communications. (4-0-4)** S. Survey of legal precedents of broadcast law, a survey of audience analysis, the structure of mass communications audiences, propaganda, communication networks, social and self-regulation of the media, and current research.
453. **General Semantics. (4-0-4)** Study of some basic characteristics of our language including the influence of language structure and levels of abstraction upon thoughts and action.
470. **Psychology of Speech. (4-0-4)** Su, F. Study of the nature, origin, and purposes of speech; basic psychological principles; the communicative process; group communication; personality and speech.
480. **Contemporary American Public Address. (4-0-4)** S. Study of competing points of view on a series of critical issues of the twentieth century.
490. **Directing Forensic Activities. (4-0-4)** W. Designed to prepare those entering the field of speech education on the secondary and college levels to direct an extracurricular forensics program. Prerequisites: Speech 232 and 234.

GRADUATE COURSES

(Courses numbered 500-549 inclusive may be taken by a senior whose grade point average is 3.0 or higher with permission of the instructor and the Dean of the Graduate School. Courses numbered 550 and above are open only to graduate students.)

500. **Problems in Speech. (Arr.-Arr.-4)** The study of and reports on a specific problem in speech. Student presents an individual study plan for researching history, theory, and/or practice of speech.
503. **Seminar. (4-0-4)** Su. A study of different aspects of speech. Topics will vary according to student demands, availability, and interest of faculty.
510. **Advanced Argumentation Theory. (4-0-4)** S. A study of advanced theory into the nature, function and structure of argument.
- 532 (471). **Background of Rhetoric. (4-0-4)** F. A survey of Classical Theories of Rhetoric including the works of Plato, Aristotle, Cicero, and Quintilian.
533. **Medieval and Renaissance Rhetoric. (4-0-4)** W. A study of rhetorical works and movements 100-1700 A.D.
- 540 (472). **American Public Address. (4-0-4)** F. A study of the influence of public speakers on the creation of American ideals and policies during the colonial and early national period to 1850.
541. **American Public Address. (4-0-4)** W. Study of public speaking in America from 1850 through the early twentieth century.
555. **Research in Speech. (4-0-4)** F. An introduction to research methods, bibliographical resources, and professional writing in the field of speech.
558. **Theories of Leadership in Communication. (4-0-4)** Su. An investigation of leadership theories and their relationship to interpersonal communication.
560. **Deliberation of Human Problems. (4-0-4)** Su, W. Investigation, discussion, and debate as modes of procedure in human affairs. Principles and procedures applied to actual problems.
562. **Modern Rhetorical Theory. (4-0-4)** S. Survey of theories of rhetoric from the eighteenth century to the present. Attention given to Ward, Blair, Campbell, Whatley, Curry, Burke, Flesch, Hall, Schramm, Weiner, Richards, Winans, Woolbert, Brigrance.

572. **British Public Address. (4-0-4) (Omitted 1971-72)** Study of British public speakers with emphasis upon their abilities to utilize the canons of rhetoric to influence given audiences on given occasions.
580. **Quantitative Research Methods in Communication. (4-0-4) W.** An introduction to quantitative research methods for graduate students planning quantitative research studies in communications.
582. **Survey of Behavioral Research in Communications. (4-0-4) S.** The summarization, evaluation, and synthesization of behavioral research in communication. A review of scientific methods and experimental results of communication studies. Prerequisite: Speech 580 or permission of instructor.
590. **Philosophical Foundations of Speech. (4-0-4) (Omitted 1971-72)** Studies designed to synthesize the student's rhetorical background and to philosophically relate rhetoric to philosophy, logic, politics, ethics, and language.
593. **Seminar in Teaching Speech on the College Level. (4-0-4) Su.** Objectives: problems, methods; materials in teaching college speech. Prerequisite: Thirty-six quarter hours in speech or permission of the department head.
595. **Thesis. (Arr.-Arr.-4)**

SPEECH PATHOLOGY AND AUDIOLOGY

UNDERGRADUATE COURSES

091. **Communication I for International Students. (4-Arr.-0) Su, F.** An intermediate course dealing with speech intelligibility and listening comprehension. Prerequisite: Michigan Test of English Language Proficiency and permission of the instructor.
092. **Communication II for International Students. (4-Arr.-0) W.** An intermediate course dealing with reading and writing skills. Prerequisite: Michigan Test of English Language Proficiency and permission of the instructor.
093. **Communication III for International Students. (4-Arr.-0) S.** An advanced course dealing with oral and written skills necessary for students to profit from basic English and speech courses. Prerequisite: Michigan Test of English Language Proficiency and permission of the instructor.
254. **Structure and Function of the Speech and Hearing Mechanisms. (4-0-4) F.** Basic neurologic, anatomical and physiologic concepts. Students observe in the clinic.
255. **Voice Science. (4-0-4) W.** Applies basic acoustical and physiological information to normal speech: speech sounds, pitch, loudness, quality, and rate. Students observe in the clinic.
260. **Speech Pathology. (4-0-4) Su, S.** A study of the pathology, etiology and treatment of articulatory, voice, hearing, stuttering, and organically based speech disorders.
262. **Childhood Development of Speech. (4-0-4) S.** Normal development and measurement of spoken language abilities in children.
- 263 (451). **Evaluation and Therapy. (4-0-4) S.** Training in specific diagnostic techniques for speech disorders; planning specific corrective techniques. Students observe in the clinic. Prerequisite: Speech Pathology and Audiology 260 or permission of the instructor.
362. **Language Disorders. (4-0-4) Su, F.** Evaluation, and correction for language disorders associated with developmental delay C.N.S. involvements, and cultural deprivation. Prerequisites: Speech Pathology and Audiology 260, 262, 263, or permission of the instructor.
- 402 (452). **Voice and Articulation Disorders. (4-0-4) F.** Nature, causes and treatment of voice and articulation disorders. Prerequisites: Speech Pathology and Audiology 260, 263.

- 403 (453). Stuttering. (4-0-4) W.** Prominent theories of causes of stuttering are surveyed. Corrective techniques are studied and evaluated. Prerequisites: Speech Pathology and Audiology 260, 263.
- 405 (455). Audiometry and Hearing Aids. (4-0-4) Su, F.** Pure tone and speech audiometry; techniques for hearing aid selection. Students conduct hearing surveys and do individual hearing tests. Prerequisites: Speech Pathology and Audiology 260, 263.
- 406 (456). Audiology. (4-0-4) W.** Speech and psychological problems of the deaf and hard of hearing; techniques in lip reading and speech rehabilitation. Prerequisites: Speech Pathology and Audiology 260, 263, 405. (Students entering Eastern Illinois University after June 1, 1971, are not permitted to register for this course.)
- 408 (458). Organic Disorders of Speech. (4-0-4) S.** Etiology and correction of organic disorders of speech; cleft palate, cerebral palsy, aphasia, and laryngectomy. Prerequisites: Speech Pathology and Audiology 260, 263, 402 or permission of the instructor.

COURSES OPEN TO JUNIORS, SENIORS, AND GRADUATE STUDENTS

- 457. Clinical Practice. (Arr.-Arr.-1 to 4)** Supervised work with a variety of speech and hearing defects; thirty clock hours per quarter hour's credit. Prerequisites: Speech Pathology and Audiology 260, 263.
- 460. Speech Correction for the Classroom Teacher. (4-0-4) W, S.** Classification, incidence, prevention, and classroom management of defective speech and nature of speech correction services.
- 495, 496. Independent Study. (Arr.-Arr.-4 each course)** Independent directed study of a specific problem or problems in speech pathology, audiology, speech or hearing correction. Prerequisite: Permission of the instructor and the department head.

GRADUATE COURSES

(Courses numbered 500-549 inclusive may be taken by a senior whose grade point average is 3.0 or higher with permission of the instructor and the Dean of the Graduate School. Courses numbered 550 and above are open only to graduate students.)

- 561. Introduction to Graduate Study in Speech Pathology and Audiology. (4-0-4) Su, F.** Introduction to research methodology and experimental design. Prerequisite: Permission of instructor.
- 562. Articulation Disorders. (4-0-4) F.** Advanced study of causes and treatment of articulation disorders. Testing, symptomatology and correction are stressed. Prerequisite: Speech Pathology and Audiology 402.
- 563. Stuttering. (4-0-4) Su, F.** Advanced study of the problem; integration of prominent theories and treatment in stuttering; analysis of significant findings and trends in research on stuttering. Prerequisite: Speech Pathology and Audiology 403.
- 564. Voice Disorders. (4-0-4) W.** Advanced study of etiology and correction of functional and organic voice problems. Voice pitch, quality, and intensity. Prerequisite: Speech Pathology and Audiology 402.
- 565. Audiometry. (4-0-4) Su, F.** Advanced study of the assessment of hearing losses. Emphasis on a functional test battery, diagnostic problems, and hearing aid selection. Prerequisite: Speech Pathology and Audiology 405.
- 566. Aural Rehabilitation I. (4-0-4) S.** Advanced study of rehabilitation for the hard-of-hearing. Prerequisites: Speech Pathology and Audiology 405, 565.
- 567. Advanced Clinical Practice. (Arr.-Arr.-1 to 6)** Supervised corrective work with clients with speech and/or hearing defects. Prerequisite: Speech Pathology and Audiology 457.

568. **Organic Speech Disorders. (4-0-4)** Su, W. Advanced study of cleft palate and cerebral palsy in children and adults; etiology, diagnosis, and correction of speech problems. Prerequisite: Speech Pathology and Audiology 408 or permission of the instructor.
569. **Speech Correction Problems in the Schools. (4-0-4) (Offered on demand.)** Problems in speech correction with school age children. Emphasis upon understanding the function of the school speech clinician. Prerequisites: Speech Pathology and Audiology 260, Education 441, 442, 443, or permission of the instructor.
570. **Research Procedures in Speech Science. (4-0-4)** S. Some major instruments and procedures in experimental phonetics, voice research, and other research areas in speech pathology. Prerequisite: Speech Pathology and Audiology 561.
572. **Language Disturbances. (4-0-4)** W. Language patterns of children and adults with oral communication impairments. Emphasis on the diagnostic and corrective procedures. Prerequisites: Speech Pathology and Audiology 260, 262, 408, Psychology 452, or permission of the instructor.
573. **Aural Rehabilitation II. (4-0-4) (Omitted 1971-72)** Continued study of aural rehabilitation including medical, psychological, vocational aspects and amplification systems. Prerequisites: Speech Pathology and Audiology 405, 565, 566.
- 575, 576. **Independent Study. (Arr.-Arr.-4 each course)** Independent, directed study of a specific problem or problems in speech pathology, audiology, speech or hearing correction. Prerequisite: Permission of the instructor and the department head.
595. **Thesis. (Arr.-Arr.-4 or 8)**

THEATRE ARTS

UNDERGRADUATE COURSES

- 101, 102, 103. **Theatre Practicum. (Arr.-Arr.-1 each course)** Individual work and study in the various activities of theatrical productions. These courses may be taken more than once, but only three quarter hours of credit may be counted toward graduation.
132. **Voice and Phonetics. (4-0-4)** A study of voice production and the articulation of sounds; the phonetic alphabet; ear training, and practice in phonetic transcription.
133. **Beginning Interpretation. (4-0-4)** Designed to introduce the student to the study of literature through the medium of oral performance, where the medium is itself a process of defining.
240. **Introduction to the Theatre. (4-0-4)** A general introduction to theatrical and dramatic art.
244. **Acting. (4-4-4)** F, W, S. A study of the methods of learning and teaching techniques for the actor. May not register concurrently in Theatre Arts 445.
257. **Technical Direction. (4-4-4)** W, S. Construction and painting of scenery properties; theory and technique and stage lighting.
281. **Summer Theatre. (Arr.-Arr.-8 to 12)** Su. This course is designed to give practical, comprehensive experience in theatre arts. Credit for eight or twelve quarter hours may be earned in one summer. However, a maximum of twelve quarter hours total from Theatre Arts 281 and/or 481 may be counted toward a bachelor's degree.
333. **Advanced Interpretation. (4-0-4)** F, S. Interpretation of literature in traditional and experimental styles. Introduction to the aesthetics of Readers and Chamber Theatre. Prerequisite: Theatre Arts 133 or permission of the instructor.
357. **Scene Design. (4-4-4)** F. Consideration of the design sequence from analysis of the script to the completion of production drawings; practical experience. Prerequisite: Theatre Arts 257, or permission of the instructor.

- 358. **Design and History of Costume. (4-4-4)** S. History of Costume from the early Egyptians to the present day. Costume design for theatrical productions.
- 399. **Summer Study in Ireland. (0-0-9)** Su. Independent research in Theatre Arts. Six weeks of residence in the Republic of Ireland will be required. Open to juniors and seniors.
- 431. **Children's Dramatics. (4-0-4)** W. Dramatics as educational devices for children. The advantages of dramatizing literature, history, and other subjects. Choice of plays is presented.
- 445. **Directing. (4-4-4)** F, W, S. The study and actual production of the play. Central emphasis is placed on directing. May not register concurrently in Theatre Arts 244.

COURSES OPEN TO JUNIORS, SENIORS, AND GRADUATE STUDENTS

- 460. **From Ritual to Romance: Theatre Art of Greece, Rome, and the Middle Ages. (2-2-4)** Su, F.
- 462. **A Focus on Diversity: Theatre Art from the Renaissance to the Beginnings of Realism. (2-2-4)** W.
- 464. **Realism to Revolt: Theatre Art from the Art Theatre to Avant-Garde. (2-2-4)** W.
- 481. **Summer Theatre. (Arr.-Arr.-8 to 12)** Su. The course is designed to give practical, comprehensive experience in dramatic art. Credit for eight or twelve quarter hours may be earned in one summer. However, a maximum of twelve quarter hours total from Theatre Arts 281 and/or 481 may be counted toward a bachelor's degree. Eight quarter hours may be applied toward a master's degree only if credit in either Theatre Arts 281 or 481 has not been counted toward a bachelor's degree.
- 492. **Oral Interpretation of Poetry. (4-0-4)** Su, S. A study of the experiential nature of poetry and the recreation of the experience through oral performance. General forms and the works of two or three poets will be considered. Prerequisites: Theatre Arts 133, 333, or permission of the instructor.
- 496. **Oral Interpretation of Prose Fiction. (4-0-4)** Su, W. A study of four Twentieth Century novelists through close literary analysis and oral performance. Particular attention will be given to the problems of point-of-view. Prerequisites: Theatre Arts 133, 333, or permission of the instructor.

GRADUATE COURSES

(Courses numbered 500-549 inclusive may be taken by a senior whose grade point average is 3.0 or higher, with permission of the instructor and the Dean of the Graduate School. Courses numbered 550 and above are open only to graduate students.)

- 501, 502, 503. **Problems in Theatre Arts. (4-0-4 each course)** Advanced study in a major area of concentration in one of the theatre arts.
- 520. **Drama Theory and Criticism. (4-0-4)** Su, F, S. A study of the theories that have shaped the dramatic art in western cultures from Aristotle to the nineteenth century.
- 524. **Development of the American Theatre. (4-0-4)** F. The theatre as an aspect of American culture from 1752 to the present. The development of the physical theatre in the United States as well as the development of native American playwrights.
- 538. **Advanced Technical Direction. (4-0-4)** Su, F. Techniques of lighting, properties and sound production and their integration in the theatrical performance.
- 545. **Advanced Directing. (4-0-4)** Su, W. The theory and concept of directing plays in various periods and styles.
- 595. **Thesis. (Arr.-Arr.-4)**

ZOOLOGY

UNDERGRADUATE COURSES

101. **General Zoology.** (2-4-4) A study of tissues, organs, systems, physiology, reproduction and embryonic development, followed by a survey of the animal kingdom. Prerequisite: Life Science 100 or equivalent.
212. **Vertebrate Zoology.** (2-4-4) The natural history of vertebrates including distribution, feeding habits, reproduction, economic importance, and classification. Prerequisite: One course in zoology.
214. **Comparative Anatomy of Vertebrates.** (2-4-4) Su, F. A study of structures and their evolutionary relationships in vertebrates. Based on laboratory work with typical forms. Prerequisite: Two courses in zoology.
215. **Embryology.** (2-4-4) Su, W. Development of vertebrate animals, including formation of germ cells, to maturity. Laboratory studies of frog, chick and pig. Prerequisite: Twelve quarter hours of zoology.
225. **Anatomy.** (0-6-4) A study of osteology from human bones and muscles by dissection of the cat. Emphasis on understanding body movement. Prerequisite: Life Science 100; Zoology 101 and sophomore standing recommended.
327. **Parasitology.** (2-4-4) Su, F. Means of identification, life histories, and methods of control of the more common animal parasites, including those of man. Prerequisites: Zoology 101 and one other zoology course.
336. **Genetics.** (2-4-4) Basic laws of heredity and variation; experiments demonstrating the mechanisms of heredity; cytogenetics; modern concept of gene action. Prerequisite: Twelve quarter hours in biological sciences. Credit not granted to those with credit in Botany 336.
338. **Elementary Entomology.** (2-4-4) Su, F. A study of insects common in the local environment. Means of recognition and life-history studies are stressed. Prerequisite: Two courses in biological science. Open only to elementary education majors.
- 341, 342. **Independent Study.** (Arr.-Arr.-4 each course) An outline of the proposed work must be approved by the department head prior to registration. Prerequisite: Twenty quarter hours of zoology and permission of instructor and department head; Zoology 450 recommended.
- 343, 344, 345. **Entomology.** (2-4-4 each course) 343-Su, F; 344-W; 345-S. The morphology, classification, ecology and economic importance of insects. Methods of collection and specimen preparation are included. Prerequisite: Twelve quarter hours of zoology; Zoology 343 is prerequisite for 344 or 345.
346. **Economic Entomology.** (2-4-4) S. Life histories and control methods of common insect pests found in Illinois. Prerequisite: Zoology 343.
347. **Fisheries Management.** (2-4-4) Su, F. Fundamentals of anatomy, classification, life histories and conservation of fish. Field work and study of local fishes are stressed. Prerequisite: Zoology 212.
348. **Human Physiology.** (2-4-4) A study of the basic physiological principles is followed by experimental studies of muscle-nerve complexes, circulation, respiration and digestion. Prerequisite: One course in zoology.
349. **Human Physiology.** (2-4-4) S. A continuation of 348 dealing with metabolism, excretion, endocrines, integumentary system, sense organs, reproductive organs. Prerequisite: Zoology 348, or permission of instructor.
350. **Principles of Physiology.** (3-3-4) Su, W, S. A study of basic principles underlying the functions of protoplasm and organ systems. Prerequisite: Twelve quarter hours of zoology. Chemistry requirement should be completed.

399. **Summer Study in Ireland.** (Arr.-Arr.-9) Su. Independent research. Six weeks of residence in Republic of Ireland required. Participant and project must be approved by departmental committee. Open to juniors and seniors with zoology major or minor.
445. **Cytology-Histology.** (2-4-4) Su, F, S. The microscopic structures and functions of cytoplasmic, nuclear and membrane components of cells, and detailed study of tissues. Prerequisite: Twelve quarter hours in zoology. Organic chemistry recommended.
449. **Studies in Zoology.** (2-0-2) F, W, S. A seminar in current zoological literature. Prerequisite: Twelve quarter hours of zoology. May be taken twice for credit with permission of the department head.

COURSES OPEN TO JUNIORS, SENIORS, AND GRADUATE STUDENTS

450. **Methods in Biological Research.** (2-0-2) F. The principles of biological research, including review of literature, defining and organizing problems, and effective presentation of data. Prerequisite: Junior standing.
451. **Microtechnique.** (2-4-4) W, S. Methods and practice in the preparation of microscope slides of animal tissues. A collection of slides may be made for later use in teaching. Prerequisite: Twenty-four quarter hours of zoology.
452. **Animal Behavior.** (2-4-4) Su, S. Theoretical and experimental studies of the reactions of animals to various stimuli. Prerequisite: Twenty-four quarter hours of zoology, or permission of the instructor.
453. **Animal Ecology.** (2-4-4) S. Animals and their physical and biotic environments; communities; populations; succession; distribution; adaptations. Prerequisite: Twenty-four quarter hours of zoology, or permission of the instructor.
455. **Ornithology.** (2-4-4) S. The life histories, adaptations, and structure of birds. Emphasis upon migration, songs, nests and importance of our native species. Prerequisite: Zoology 212.
456. **Field Zoology.** (2-4-4) Su, S. An intensive course in the classification and natural history of animal life indigenous to this region, exclusive of insects, birds and fish. Prerequisite: Twenty-four quarter hours of zoology; Zoology 460 recommended.
457. **Wildlife Management.** (2-4-4) F. The principles of wildlife management with emphasis on terrestrial game animals; their ecology, life histories and conservation. Prerequisite: Twelve quarter hours of zoology including Zoology 212; Zoology 453 and 455 recommended.
458. **Limnology.** (2-4-4) Su, F. The physical environment and biological communities involved in fresh water ecosystems. Prerequisite: One year of chemistry; sixteen quarter hours of zoology.
460. **Invertebrate Zoology.** (2-4-4) S. The phylogeny, morphology, physiology, ecology, geographical distribution and economic importance of invertebrate animals. Prerequisites: Twenty-four quarter hours of zoology.
465. **Herpetology.** (2-4-4) Su, S. Studies on the biology of reptiles and amphibians. Prerequisites: Zoology 212, 214.
- 470 (454). **Animal Histology.** (2-4-4) S. A microscopic study of animal tissues and organs; their origins and functions; advanced microscopic techniques. Prerequisite: Zoology 451 or permission of the instructor.
475. **Mammalogy.** (2-4-4) Su, W. A study of mammals with emphasis on classification, distribution, natural history and ecology. Prerequisites: Zoology 212, 214.
480. **Ichthyology.** (2-4-4) W. Advanced study of the evolution, anatomy, taxonomy and distribution of the fishes of the world. Prerequisite: Twenty-four quarter hours of zoology, including Zoology 212.

GRADUATE COURSES

(Courses numbered 500-549 inclusive may be taken by a senior whose grade point average is 3.0 or higher, with permission of the instructor and the Dean of the Graduate School. Courses numbered 550 and above are open only to graduate students.)

- 510, 511. **Basic Zoology. (2-4-4 each course) (Omitted 1971-72)** Fundamental concepts relating to animal organisms. Prerequisite: For participants in NSF Summer Institute or similarly qualified science teachers.
520. **History of Biology. (4-0-4) W.** The development of biology from pre-history to date; contributions by various civilizations; the growth of specific fields. Prerequisite: Twenty-four quarter hours of biological science.
521. **Organic Evolution. (4-0-4) Su, W.** The principles of, and evidence for, organic evolution; history of the development of theories, and of scientists' concern with the subject. Prerequisite: Twenty-four quarter hours of zoology.
525. **Protozoology. (2-4-4) F.** The morphology, physiology, ecology and life histories of free-living and parasitic protozoa. Includes laboratory and field studies. Prerequisite: Twelve quarter hours of zoology and twelve quarter hours of chemistry.
530. **Nematology. (2-4-4) S.** A study of the taxonomy, morphology, physiology, ecology and culture of free-living and parasitic Nematoda. Prerequisites: Twenty-four quarter hours of zoology; a course in organic chemistry.
535. **Arthropodology. (2-4-4) F.** A study of arthropods exclusive of insects, with emphasis on terrestrial forms. Prerequisite: Twenty-four quarter hours of zoology; Zoology 343 and 460 recommended.
540. **Cell Physiology. (3-3-4) Su, W.** A study of the fundamental physical and chemical processes which underlie cellular structure and function. Prerequisites: Zoology 350 and one course in organic chemistry.
549. **Paleozoology. (2-4-4) F.** Ancient organisms as biological entities; how techniques of biology and geology can be used to study them. Prerequisites: Zoology 453, 460, or permission of the instructor.
- 555, 556, 557, 558. **Advanced Zoology. (Arr.-Arr.-4 each course)** Courses designed to meet the needs of individual students who wish to do advanced work in some special field of zoology. Prerequisite: Twenty-four quarter hours of zoology or the permission of the department head.
560. **Advanced Systematics. (2-4-4) W.** A study of the methods and principles of animal taxonomy, including speciation and zoogeography. Prerequisite: Twenty-four quarter hours of zoology.
561. **Endocrinology. (2-4-4) S.** A study of the endocrine glands, the action of hormones, and the general features of the endocrine system. Prerequisite: Twenty-four quarter hours of zoology, and at least one course in organic chemistry.
595. **Thesis. (Arr.-Arr.-4)**

XI. STATISTICS

SUMMARY OF ENROLLMENTS

Spring Quarter, 1970, through Winter Quarter, 1970-71

UNIVERSITY

<i>Full-Time, On Campus</i>		<i>Spring</i>	<i>Summer*</i>	<i>Fall</i>	<i>Winter</i>
Seniors:	Men	782	485	791	856
	Women	674	515	798	774
	Total	1456	1000	1589	1630
Juniors:	Men	920	352	959	954
	Women	898	478	886	875
	Total	1818	830	1845	1829
Sophomores:	Men	703	253	815	824
	Women	772	417	1043	978
	Total	1475	670	1858	1802
Freshmen:	Men	764	374	966	942
	Women	1034	450	1465	1325
	Total	1798	824	2431	2267
Graduates: Fifth Year	Men	188	482	187	202
	Women	95	362	82	80
	Total	283	844	269	282
Sixth Year	Men	6	79	3	6
	Women	1	12	2	5
	Total	7	91	5	11
Total:	Men	3363	2025	3721	3784
	Women	3474	2234	4276	4037
	Total	6837	4259	7997	7821
<i>Part-Time, On Campus</i>					
Seniors:	Men	23	55	17	32
	Women	29	58	20	29
	Total	52	113	37	61
Juniors:	Men	6	27	11	9
	Women	27	24	21	19
	Total	33	51	32	28

* Includes eight and ten week enrollments

		<i>Spring</i>	<i>Summer</i>	<i>Fall</i>	<i>Winter</i>
Sophomores:	Men	9	16	3	10
	Women	23	33	21	21
	Total	32	49	24	31
Freshmen:	Men	14	18	10	10
	Women	24	56	15	24
	Total	38	74	25	34
Graduates:	Men				
Fifth Year	Women	240	102	243	213
	Total	231	92	230	199
		471	194	473	412
Sixth Year	Men	63	18	47	52
	Women	24	16	17	25
	Total	87	34	64	77
Workshops:	Men	-	160	-	-
	Women	-	176	-	-
	Total	-	336	-	-
Total:	Men	355	396	331	326
	Women	358	455	324	317
	Total	713	851	655	643
Total on Campus	Men	3718	2421	4052	4110
	Women	3832	2689	4600	4354
	Total	7550	5110	8652	8464
Full-Time Equivalent (Resident)		7128	4662	8278	8097
<i>Part-Time, Off Campus</i>					
	Men	88	24	87	-
	Women	129	113	160	-
	Total	217	137	247	-
Total University	Men	3806	2445	4139	4110
	Women	3961	2802	4760	4354
	Total	7767	5247	8899	8464
Full-Time Equivalent		7197	4717	8360	8097
LABORATORY SCHOOL	Boys	255	122	268	268
	Girls	260	121	261	253
	Total	515	243	529	521

SUMMARY OF DEGREES AWARDED**September 1, 1969, through August 31, 1970**

<i>Degree</i>	<i>Nov. 1969</i>	<i>Mar. 1970</i>	<i>May 1970</i>	<i>Aug. 1970</i>	<i>Total</i>
Specialist in Education	1	0	6	3	10
Master of Arts	4	0	10	10	24
Master of Science	3	2	4	8	17
Master of Science in Education	18	18	49	153	238
Master of Business Administration	0	0	9	12	21
Bachelor of Arts	3	9	24	8	44
Bachelor of Science	33	27	63	48	171
Bachelor of Science in Business	55	34	93	63	245
Bachelor of Science in Education	178	173	477	208	1036
Bachelor of Science in Home Economics	1	5	4	5	15
Bachelor of Science in Industrial Technology	3	3	6	6	18
Bachelor of Science in Recreation	0	0	1	1	2

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IF YOU WISH INFORMATION . . .

For information on particular aspects of the University, please address your inquiry to the persons named below.

Admission of Graduate Students -- Dean, Graduate School

Admission of Undergraduate Students -- Director of Admissions

Admission of Transfer Students -- Director of Admissions

Application for Graduation -- Records Office

Extension Service -- Director of Extension

Married Student Housing, University Apartments -- Assistant Dean, Married Housing

Military Scholarships -- Director of Veterans Services

Off-Campus Housing -- Director of Off-Campus Housing

Placement -- Director of Placement

Readmission of Former Students in Good Standing -- Records Office

Reinstatement of Former Students Dismissed for Low Scholarship -- Assistant Dean, General Services

Residence Hall Accommodations -- Dean, Student Housing

Scholarships -- Director of Financial Aids

Student Employment -- Director of Financial Aids

Student Insurance -- Office of Financial Aids

Student Loans -- Director of Financial Aids

Summer Study Abroad -- Director of Extension

Testing -- Coordinator of Testing

Workshops -- Director of Extension

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