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1966 BULLETIN

1966 BULLETIN

EASTERN ILLINOIS UNIVERSITY

CHARLESTON

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. Advisers, directors, 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, 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.

Eastern Illinois University Bulletin

NO. 263 JULY, 1966

67th YEAR

ACADEMIC RECORD 1965-66 SESSIONS

ANNOUNCEMENTS FOR 1966-67 SESSIONS

EASTERN ILLINOIS UNIVERSITY BULLETIN

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University Calendar
Eastern Illinois University
1966-1967

FALL QUARTER, 1966

Monday, September 5 — Parents Convocation
Tuesday, September 6 — Registration Day
Wednesday, September 7 — Classes Begin
Saturday, October 8 — Homecoming
Tuesday, October 18 — Constitution Examination
Friday, Saturday, Monday, Tuesday, November 18, 19, 21, 22 — Examinations
Wednesday, November 23 — Quarter Closes

WINTER QUARTER, 1966-67

Tuesday, November 29 — Registration
Wednesday, November 30 — Classes Begin
Friday, December 16 (6:00 p.m.) — Christmas Vacation Begins
Tuesday, January 3 — Classes Resume
Tuesday, February 21 — Constitution Examination
Saturday, Monday, Tuesday, Wednesday, February 25, 27, 28, and March 1 — Examinations
Thursday, March 2 — Quarter Closes

SPRING QUARTER, 1967

Thursday, March 9 — Registration
Friday, March 10 (Classes also held Saturday, March 11) — Classes Begin
Friday, March 24 — Holiday—Good Friday
Tuesday, April 18 — Constitution Examination
Sunday, May 21 — Commencement
Saturday, Monday, Tuesday, Wednesday, May 20, 22, 23, 24 — Examinations
Thursday, May 25 — Quarter Closes

SUMMER QUARTER, 1967

Monday, June 5 — Registration
Tuesday, June 6 — Classes Begin
Monday, June 19 — Final Registration—Graduate Session
Tuesday, July 4 — Holiday—Independence Day
Tuesday, July 18 — Constitution Examination
Wednesday, Thursday, Friday, Saturday, August 9, 10, 11, 12 — Examinations
Thursday, August 10 — Commencement
Monday, August 14 — Quarter Closes

THE BOARD OF GOVERNORS OF STATE COLLEGES AND UNIVERSITIES

APPOINTED MEMBERS

NOBLE J. PUFFER, Chicago 1961-67
WILLIAM E. McBRIDE, Chicago 1961-67
PAUL STONE, Sullivan 1961-67
J. BON HARTLINE, Anna 1963-69
ARTHUR R. HIGGINS, Quincy 1963-69
W. I. TAYLOR, Canton 1963-69
ROYAL A. STIPES, JR., Champaign 1965-71
MORTON H. HOLLINGSWORTH, Joliet 1965-71
RICHARD J. NELSON, Evanston 1965-71

EX OFFICIO MEMBERS

RAY PAGE
Superintendent of Public Instruction, Springfield

JAMES A. RONAN
Director, Department of Finance, Springfield

OFFICERS

PAUL STONE, *Chairman*
NOBLE J. PUFFER, *Vice Chairman*
FREDERICK H. McKELVEY, *Executive Officer,* Springfield

EMERITUS FACULTY

Robert G. Buzzard, Ph.D. ..... Professor Emeritus
Donald R. Alter, Ph.D. ..... Professor Emeritus
Harold M. Cavins, Ed.D. ..... Professor Emeritus
Ruth H. Cline, Ph.D. ..... Professor Emeritus
Charles H. Coleman, Ph.D. ..... Professor Emeritus
Earl S. Dickerson, Ed.D. ..... Professor Emeritus
Kevin Guinagh, Ph.D. ..... Professor Emeritus
Edith C. Haight, Ph.D. ..... Professor Emeritus
Bryan Heise, Ph.D. ..... Professor Emeritus
Russell H. Landis, D.Ed. ..... Professor Emeritus
Sadie O. Morris, Ph.D. ..... Professor Emeritus
Hans C. Olsen, Ph.D. ..... Professor Emeritus
Emma Reinhardt, Ph.D. ..... Professor Emeritus
Ruth Schmalhausen, Ed.D. ..... Professor Emeritus
Ernest L. Stover, Ph.D. ..... Professor Emeritus
Myrtle Arnold, A.M. ..... Assistant Professor Emeritus
Ruth Carman, M.A. ..... Assistant Professor Emeritus
Gilbert T. Carson, A.M. ..... Assistant Professor Emeritus
Leah Stevens Castle, S.M. ..... Assistant Professor Emeritus
Lena B. Ellington, A.M. ..... Assistant Professor Emeritus
Harriet Love Hershey, M.S. ..... Assistant Professor Emeritus
Ruth Hostetler, A.M. ..... Assistant Professor Emeritus
Jessie M. Hunter, M.A. ..... Assistant Professor Emeritus
Ica Marks, M.S. ..... Assistant Professor Emeritus
Florence E. Reid, M.A. ..... Assistant Professor Emeritus
Nannilee Saunders, M.A. ..... Assistant Professor Emeritus
Ethel Hanson Stover, A.M. ..... Assistant Professor Emeritus
Blanche C. Thomas ..... Registrar Emeritus
Raymond R. Gregg, A.M. ..... Director of Business Services Emeritus

DISABILITY LEAVE

J. Glenn Ross, Ph.D. ..... Professor
Roberta L. Poos, A.M. ..... Assistant Professor
Robert B. Thrall, M.S. ..... Assistant Professor

Eastern Illinois University

Charleston

★

FACULTY 1965-66

★

ADMINISTRATIVE STAFF

OFFICE OF THE PRESIDENT

Quincy Doudna ..... President (1956[1])
Ph.D., University of Wisconsin; LL.D., Carroll College

Asa M. Ruyle, Jr. ..... Assistant to the President (1956)
Ed.D., University of Missouri

OFFICERS OF INSTRUCTION

Hobart F. Heller ..... Vice President for Instruction (1931)
Ph.D., Columbia University

Lawrence A. Ringenberg ..... Dean of the College of Letters and Science (1947)
Ph.D., The Ohio State University

Donald F. Tingley ..... Chairman, Division of Latin American Studies (1953)
Ph.D., University of Illinois

Irvin L. Sparks[2] ..... Chairman, Division of Pre-Engineering Studies (1950)
Ph.D., University of Missouri

William M. Cloud ..... Chairman, Division of Pre-Engineering Studies (1962)
Ph.D., University of Wisconsin

Robert J. Smith ..... Chairman, Division of Pre-Medical Studies (1955)
Ph.D., State University of Iowa

Raymond A. Plath ..... Chairman, Division of Social Sciences (1946)
Ph.D., University of Wisconsin

Walter M. Scruggs ..... Director, Division of Life Sciences (1929)
Ph.D., Harvard University

Martin Schaefer ..... Dean of the Faculty for Professional Education (1958)
Ph.D., State University of Iowa

[1]Date of joining staff in parentheses
[2]Deceased November 15, 1965

Lavern M. Hamand ..... Dean of the Graduate School (1957)
Ph.D., University of Illinois

James F. Giffin ..... Director of the School of Business (1947)
Ph.D., Northwestern University

Harry J. Merigis ..... Director of the School of Elementary and Junior High School Teaching (1954)
Ed.D., University of Oklahoma

Robert G. Shadick ..... Assistant Director of the School of Elementary and Junior High School Teaching (1964)
Ed.D., Teachers College, Columbia University

Donald G. Gill ..... Principal of Laboratory School (1960)
M.Ed., University of Illinois (On sabbatical leave)

Francis E. Summers ..... Acting Principal of Laboratory School (1965)
M.S.Ed., Southern Illinois University

Walter S. Lowell ..... Director of the School of Health and Physical Education (1961)
Ed.D., Michigan State University

Tom Katsimpalis ..... Director of Athletics (1959)
M.A., University of Illinois

Robert Y. Hare ..... Director of the School of Music (1965)
Ph.D., State University of Iowa

Roscoe F. Schaupp ..... Director of Library Services (1945)
Ph.D., The Ohio State University

Verne A. Stockman ..... Director of Audio-Visual Center (1955)
Ed.D., Michigan State University

Robert C. Wiseman ..... Assistant in Audio-Visual Center (1958)
Ed.D., Indiana University

Roy J. VanDreser ..... Assistant in Audio-Visual Center (1962)
M.S., Stout State College

OFFICERS OF ADMINISTRATION

William H. Zeigel ..... Vice President for Administration (1937)
Ph.D., University of Missouri

Rudolph D. Anfinson ..... Dean of Student Personnel Services (1940)
Ph.D., University of Minnesota

Elizabeth K. Lawson ..... Associate Dean of Student Personnel Services and Dean of Women (1939)
Ph.D., New York University

Virginia E. Smith ..... Assistant Dean of Women (1959)
M.A., University of Minnesota

Sallie A. Guy ..... Residence Hall Counselor (1961)
M.A., Syracuse University

Jo Anne Stuebe ..... Residence Hall Counselor (1962)
M.S. in Ed., Eastern Illinois University

Judith Strattan ..... Residence Hall Counselor (1963)
M.S., Indiana University

Barbara A. Busch ..... Residence Hall Counselor (1964)
M.S. in Ed., Indiana University

Nancy Tait ..... Residence Hall Counselor (1964)
M.S., Northern Illinois University

Sarah M. Thorburn ..... Residence Hall Counselor (1965)
M.A., University of Illinois

Donald A. Kluge—Assistant Dean, Student Personnel Services and Dean of Men (1957)
M.A., Northwestern University

Michael Hoctor—Assistant Dean of Men (1963)
M.A., Washington State University

C. Michael Oliver—Residence Hall Counselor (1964)
M.S., East Texas State College

Dwight O. Douglas—Residence Hall Counselor (1965)
M.S. in Ed., Eastern Illinois University

Don J. LaRue—Residence Hall Counselor (1965)
M.A. in Ed., Central Missouri State College

Clifford L. Rogers—Residence Hall Counselor (1965)
M.A., University of Detroit

William D. Miner—Assistant Dean, Student Personnel Services (1950)
Ph.D., Indiana University

James D. Corey—Director of Counseling Center (1964)
Ed.D., Colorado State College

Ross C. Lyman—Director of Financial Aids (1961)
B.S., University of Illinois

Ruth H. Gaertner—Director of Residence Hall Food Services (1947)
M.S., Iowa State College

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

Donald A. Rothschild—Director of Testing Services (1934)
Ph.D., State University of Iowa

Tymon F. Mitchell—Director of University Union (1959)
M.S. in Ed., Eastern Illinois University

Ronald R. Robinson—Assistant Director of University Union (1965)
B.S. in Ed., Eastern Illinois University

Allen R. Rieman—Assistant Director of University Union (1965)
B.A., Michigan State University

Glenn D. Williams—Dean of Student Academic Services and Director of Extension (1960)
Ph.D., The Ohio State University

Maurice W. Manbeck—Assistant Dean, Registration and Records (1957)
Ph.D., University of Minnesota

Samuel J. Taber—Assistant, Registration and Records (1960)
M.S. in Ed., Southern Illinois University

Robert E. Jones—Assistant, Registration and Records (1963)
M.S., Indiana State University

William G. Hooper—Academic Adviser (1962)
M.S. Ed., Illinois State University

Robert D. Shields—Academic Adviser (1965)
M.A., George Peabody College for Teachers

Sue B. Stoner—Academic Adviser (1965)
M.S. in Ed., Eastern Illinois University

James F. Knott—Director of Placement (1957)
M.A., Northwestern University

Robert E. Jones—Assistant Director of Placement (1963)
M.S., Indiana State University

Murray R. Choate—Director of Admissions and High School Relations (1962)
M.S.,Ed., Southern Illinois University

David T. Baird—Director of Admissions and High School Relations (1959)
M.S. in Ed., Indiana University (On sabbatical leave 1965-66)

Robert E. Douthit—Assistant Director of Admissions and High School Relations (1965)
M.S., Indiana State University

Harley J. Holt—Director of Business Services (1963)
M.S., University of Wisconsin

Marion L. Zane—Assistant to the Director of Business Services (1965)
M.S. in Ed., Eastern Illinois University

Everett Alms—Acting Director of the Physical Plant (1965)

Wayne E. Williams—Internal Auditor (1961)
B.S., Millikin University

John A. Walstrom—Technical Director, Data Processing Center (1959)
M.S. in Ed., Eastern Illinois University

ALUMNI SERVICES, INFORMATION AND UNIVERSITY PUBLICATIONS AND RESEARCH

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

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

Roger R. Cushman—Assistant, Information and University Publications (1964)
M.A., University of Missouri

William R. Wilkerson—Director of Institutional Research (1965)
Ed.D., Indiana University

INSTRUCTIONAL STAFF

Dewey H. Amos, Ph.D.—University of Illinois
Associate Professor, Geography. (1965)

Robert E. Andermann, M.F.A.—University of Illinois
Instructor, Art. (1964)

Mary L. Anderson, M.A.—George Peabody College for Teachers
Assistant Professor, Laboratory School. (1958)

Leslie Andre, M.A.L.S.—Western Michigan University
Instructor, Library. (1962)

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

D. Ferrel Atkins, Ph.D.—University of Kentucky
Professor, Mathematics. (1958)

Alan R. Aulabaugh, Ph.D.—State University of Iowa
Associate Professor, Music Theory, History and Literature.* (1957)

Weldon N. Baker, Ph.D.—Columbia University
Professor, Chemistry. (1958)

Wesley E. Ballsrud, M.A.—State University of Iowa
Assistant Professor, Accounting.* (1964)

Winifred H. Bally, M.A.—New York University
Assistant Professor, Physical Education for Women-Education. (1946)

Roger J. Barry, M.S. in Ed.—Eastern Illinois University
Instructor, Geography. (1965)

Hazel M. Batzer, Ph.D.—University of Michigan
Associate Professor, English. (1964)

Charles P. Beall, Ph.D.—Indiana University
Associate Professor, Political Science.* (1963)

Madeleine Betts, M.A.—University of Ottawa
Instructor, Foreign Languages. (On leave 1965-66) (1964)

John E. Beilenberg, M.A.—Northwestern University
Assistant Professor, Theater Arts. (1959)

Clyde W. Biggers, M.A.—University of North Carolina
Instructor, Physical Education for Men. (1965)

Robert L. Blair, Ph.D.—University of Illinois
Professor, English. (1946)

*Denotes departmental head or chairman.

Richard J. Bloss, Ph.D. ..... University of Pennsylvania
Associate Professor, Political Science. (1963)
Fred J. Bouknight, Ed.D. ..... Teachers College, Columbia University
Associate Professor, Laboratory School. (1959)
Mary L. Bouldin, M.S. ..... University of Illinois
Assistant Professor, Home Economics. (1961)
Earl W. Boyd, Ph.D. ..... State University of Iowa
Professor, Instrumental Music.* (1947)
Marvin L. Breig, Ph.D. ..... University of Oklahoma
Associate Professor, Physics. (1963)
Elmer L. Brooks, Ph.D. ..... Harvard University
Professor, English. (1956)
William R. Brown, M.A. ..... University of Missouri
Assistant Professor, Philosophy. (1964)
William F. Buckellew, M.S. ..... University of Illinois
Assistant Professor, Laboratory School. (1962)
John D. Buenker, Ph.D. ..... Georgetown University
Assistant Professor, History. (1965)
John F. Burke, M.A. ..... University of Notre Dame
Assistant Professor, Economics. (1965)

Joseph E. Carey, Ed.D. ..... Indiana University
Associate Professor, Laboratory School. (1958)
Robert A. Carey, P.E.D. ..... Indiana University
Professor, Physical Education for Men. (On leave 1965-66) (1953)
Mary L. Carrico, Adv.C. ..... University of Illinois
Assistant Professor, Laboratory School. (1963)
William B. Cash, M.A. ..... Kent State University
Instructor, Speech. (1964)
Gloria Ceide-Echevarria, Ph.D. ..... University of Illinois
Assistant Professor, Foreign Languages. (1965)
Parviz Chahbazi, Ph.D. ..... Cornell University
Associate Professor, Psychology.* (1965)
Jennifer M. Chang, M.L.S. ..... Texas Woman's University
Instructor, Library. (1965)
Dayton K. Chase, Ed.D. ..... University of North Dakota
Assistant Professor, Business-Education. (1965)
Charles L. Christmas, M.A. ..... University of Georgia
Assistant Professor, Mathematics. (1965)
William M. Cloud, Ph.D. ..... University of Wisconsin
Associate Professor, Physics. (1962)
H. Logan Cobb, Ph.D. ..... University of Missouri
Associate Professor, Foreign Languages. (1963)
Harold G. Coe, Ph.D. ..... Purdue University
Assistant Professor, Psychology. (1965)
George M. Colby, M.A. ..... University of Chicago
Assistant Professor, English. (1962)
Wayne D. Coleman, M.S. ..... The Stout Institute
Assistant Professor, Industrial Arts. (1957)
Joseph T. Connelly, M.Ed. ..... University of Illinois
Assistant Professor, Laboratory School. (On leave 1965-66) (1958)
Lewis H. Coon, Ed.D. ..... Oklahoma State University
Associate Professor, Mathematics. (1965)
George K. Cooper, Ph.D. ..... University of Michigan
Professor, Business Education and Secretarial Studies.* (1962)
Joanne Cooper, M.A. ..... University of Washington
Assistant Professor, English. (On leave 1965-66) (1963)
James D. Corey, Ed.D. ..... Colorado State College
Associate Professor, Guidance and Counseling. (1964)

Calvin Countryman, D.Ed. ..... Pennsylvania State University
Professor, Art.* (1945)
Velma V. Cox, M.Ed. ..... University of Missouri
Assistant Professor, Laboratory School. (On leave 1965-66) (1948)
Delmar Crabill, M.S. ..... Purdue University
Assistant Professor, Mathematics. (1963)
Francis H. Craig, M.S. in Ed. ..... Southern Illinois University
Assistant Professor, Laboratory School. (1957)
William J. Crane, Ph.D. ..... Yale University
Associate Professor, Guidance and Counseling. (1961)
George L. Cunningham, Ph.D. ..... University of California, Berkeley
Associate Professor, Chemistry. (1961)

Steven H. Dale, M.Ed. ..... University of Oklahoma
Assistant Professor, Sociology-Anthropology. (1965)
Kenneth E. Damann, Ph.D. ..... Northwestern University
Professor, Botany.* (1947)
Rex V. Darling, P.E.Dir. ..... Indiana University
Assistant Professor, Physical Education for Men. (1945)
M. Marise Daves, Ed.D. ..... New York University
Associate Professor, Physical Education for Women. (1955)
David J. Davis, Ph.D. ..... University of Michigan
Professor, Mathematics. (On sabbatical leave fall and winter quarter, 1965-66) (1950)
Howard R. Delaney, M.A. ..... Southern Illinois University
Assistant Professor, Sociology-Anthropology. (1965)
Garret W. DeRuiter, M.F.A. ..... Southern Illinois University
Instructor, Art. (1965)
Bernard J. Derwort, Ph.D. ..... St. Louis University
Professor, Mathematics. (1964)
Helen Devinney, A.M. ..... Columbia University
Assistant Professor, Home Economics. (1943)
Alphonso J. DiPietro, Ph.D. ..... George Peabody College for Teachers
Professor, Mathematics. (1959)
Earl Doughty, Ph.D. ..... Southern Illinois University
Assistant Professor, Laboratory School. (1963)
Dale D. Downs, Adv.C. ..... University of Illinois
Assistant Professor, Laboratory School. (1963)
Martha I. Drew, M.Ed. ..... University of Illinois
Assistant Professor, Business Education and Secretarial Studies. (1958)
Leonard Durham, Ph.D. ..... University of Illinois
Professor, Zoology. (1955)
Genevra Dvorak, M.S. in Ed. ..... Eastern Illinois University
Instructor, English. (1964)
Hannah N. Eads, M.S. in Ed. ..... Eastern Illinois University
Instructor, Laboratory School. (1961)
K. C. Eapen, Ph.D. ..... University of Colorado
Assistant Professor, English (1965)
John Ebinger, Ph.D. ..... Yale University
Assistant Professor, Botany. (1963)
Arthur U. Edwards, Ph.D. ..... State University of Iowa
Professor, Faculty for Professional Education. (1937)
Ronald E. Edwards, M.Ed. ..... University of Missouri
Instructor, Laboratory School. (1964)
Snowden L. Eisenhour, Ph.D. ..... University of Illinois
Associate Professor, Physics. (1961)
Gladys W. Ekeberg, Ph.D. ..... University of Wisconsin
Professor, English. (1945)
Margaret L. Ekstrand, A.M.L.S. ..... University of Michigan
Assistant Professor, Library (1942)

Aline R. Elliott, M.S. ..... University of Iowa
Assistant Professor, Physical Education for Women. (On sabbatical leave 1965-66) (1944)
Charles A. Elliott, Ed.D. ..... University of Missouri
Professor, Industrial Arts. (1945)
A. Jane Ellis, M.A. ..... University of Michigan
Instructor, Laboratory School. (On sabbatical leave 1965-66) (1960)
Walter L. Elmore, M.A. in Ed. ..... University of Kentucky
Assistant Professor, Physical Education for Men-Education. (1948)
Carl E. Emmerich, M.A. ..... University of North Dakota
Assistant Professor, Art-Education. (1962)
Ruth Erckmann, M.A. ..... University of South Dakota
Assistant Professor, Mathematics. (1963)
Clifford H. Erwin, D.Ed. ..... Indiana University
Associate Professor, Industrial Arts-Education. (1956)
Robert J. Eudeikis, M.S. in Ed. ..... Illinois State University
Instructor, Physical Education for Men. (1962)

Clifford L. Fagan, Ph.D. ..... State University of Iowa
Professor, Marketing.* (1949)
Audrey Fedor, A.B.
Faculty Assistant, Library. (Part-Time) (1954)
Max B. Ferguson, Ph.D. ..... State University of Iowa
Professor, Zoology. (1950)
M. Lorraine Flower, M.S. ..... University of Washington
Assistant Professor, Physical Education for Women. (1965)
James M. Flugrath, Ph.D. ..... Wayne State University
Assistant Professor, Speech Correction. (1965)
C. Dan Foote, Ph.D. ..... University of Illinois
Assistant Professor, Chemistry. (1965)
Melvin O. Foreman, Ph.D. ..... University of Chicago
Professor, Chemistry. (1946)
Delbert D. Foust, Adv.C. ..... University of Illinois
Assistant Professor, Laboratory School. (1964)
Duane K. Fowler, M.S. ..... Kansas State University
Instructor, Physics. (1965)
Ewell W. Fowler, Ed.D. ..... University of Missouri
Professor, Industrial Arts. (On sabbatical leave fall and winter quarters, 1965-66) (1941)
Frank A. Fraembs, M.S. ..... University of Illinois
Assistant Professor, Zoology. (1964)
Betty J. Fuller, M.S. ..... Alabama College
Instructor, Physical Education for Women. (1965)
Richard C. Funk, M.S. ..... Colorado State College
Assistant Professor, Zoology. (1965)

E. G. Gabbard, Ph.D. ..... State University of Iowa
Professor, Theater Arts.* (1947)
Curtis R. Garner, Ed.D. ..... North Texas State College
Professor, Administration and Supervision. (1955)
Donald P. Garner, Ph.D. ..... Wayne State University
Associate Professor, Speech.* (1963)
Luther R. Gibson, B.S. in Ed. ..... Eastern Illinois University
Faculty Assistant, Physics. (On leave 1965-66) (1959)
James F. Giffin, Ph.D. ..... Northwestern University
Professor, School of Business. (1947)
Michael A. Goodrich, Ph.D. ..... Pennsylvania State University
Associate Professor, Zoology. (1964)
Timothy D. Gover, M.S. ..... University of Illinois
Assistant Professor, Marketing. (1963)

Louis M. Grado, Ph.D. ..... State University of Iowa
Associate Professor, Faculty for Professional Education. (1955)
Carl K. Green, Ed.D. ..... University of Houston
Associate Professor, Guidance and Counseling. (1958)
Marguerite E. Green, M.P.H. ..... University of Minnesota
Assistant Professor, Health Education. (1958)
Raymond Griffin, D.Ed. ..... Colorado State College
Associate Professor, Laboratory School. (1958)
Waldo Grigoroff, M.S. in Ed. ..... University of Illinois
Substitute Instructor, Laboratory School. (1961)
William H. Groves, Ph.D. ..... State University of Iowa
Professor, Physical Education for Men. (1951)
Paul O. Gurholt, M.A. ..... University of Wisconsin
Assistant Professor, Laboratory School. (1955)

Ken E. Hadwiger, Ph.D. ..... University of Oklahoma
Assistant Professor, Speech. (1964)
Leland E. Hall, M.A. ..... Western Michigan University
Assistant Professor, Political Science. (1965)
James A. Hallam, Ph.D. ..... State University of Iowa
Associate Professor, Management.* (1958)
Lavern M. Hamand, Ph.D. ..... University of Illinois
Professor, History. (1957)
Julian J. Hamerski, Ph.D. ..... University of the Pacific
Associate Professor, Chemistry. (1963)
Robert R. Hancock, M.S. ..... Southern Illinois University
Substitute Assistant Professor, Mathematics-Education. (1965)
Robert Y. Hare, Ph.D. ..... State University of Iowa
Professor, School of Music. (1965)
Dorothy M. Hart, Ph.D. ..... State University of Iowa
Professor, Physical Education for Women. (1947)
Betty R. Hartbank, M.S. ..... University of Illinois
Assistant Professor, Laboratory School. (1956)
Fred Hattabaugh, M.S. in Ed. ..... Eastern Illinois University
Instructor, Laboratory School. (1965)
Helen L. Haughton, M.S. ..... University of Illinois
Assistant Professor, Home Economics. (1956)
Frank H. Hedges, M.S. ..... University of Illinois
Instructor, Zoology. (1965)
Robert Hennings, Ph.D. ..... University of California, Berkeley
Assistant Professor, History. (1962)
James A. Herauf, M.S. ..... Southern Illinois University
Instructor, Health Education. (1965)
Gretchen Hieronymus, M.A. ..... University of Illinois
Assistant Professor, Laboratory School. (1960)
Albert R. Hinson, M.F.A. ..... Miami University
Instructor, Art. (1965)
Dan M. Hockman, M.S. in Ed. ..... Eastern Illinois University
Instructor, History-Social Studies-Education
Arnold J. Hoffman, M.S. ..... University of Illinois
Assistant Professor, Physical Science-Education. (1943)
Bertrand P. Holley, M.A. ..... Northwestern University
Assistant Professor, Management. (1946)
Janet M. Hooks, Ph.D. ..... University of Illinois
Assistant Professor, Economics. (1963)
Richard L. Hooser, M.S. ..... University of Illinois
Assistant Professor, Laboratory School. (1965)
Jon J. Hopkins, Ph.D. ..... Pennsylvania State University
Associate Professor, Speech. (1956)
Judith Ann Hopkins, B.A. ..... Butler University
Faculty Assistant, Physical Education for Women. (1965)

Mildred Hopkins, B.S. in Ed. — Northern Illinois University
Substitute Faculty Assistant, Laboratory School. (1964)
Stephen M. Horak, Ph.D. — University of Erlangen
Assistant Professor, History. (1965)
Robert W. Hussey, M.A. — Michigan State University
Assistant Professor, Physical Education for Men. (1958)
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
Assistant Professor, Laboratory School. (1958)
Richard H. Jacoby, M.S. — University of Illinois
Instructor, Instrumental Music. (1964)
John K. Jeglum, M.S. — University of Wisconsin
Assistant Professor, Botany. (1965)
Donald A. Jenni, Ph.D. — University of Florida
Assistant Professor, Zoology. (On leave 1965-66) (1962)
June Johnson, M.M. — University of Kansas
Instructor, Vocal Music. (On sabbatical leave 1965-66) (1960)
Vernon E. Johnson, Ph.D. — George Peabody College for Teachers
Associate Professor, English. (1965)
Elaine Jorgenson, A.M. — Colorado State College
Instructor, Home Economics. (On leave 1965-66) (1961)

Sheldon S. Kagan, M.A. — New York University
Assistant Professor, English. (1965)
Tom Katsimpalis, M.A. — University of Illinois
Assistant Professor, Physical Education for Men. (1959)
John H. Keiser, Ph.D. — Northwestern University
Assistant Professor, History. (1965)
John J. Kelleher, Ph.D. — University of Pittsburgh
Associate Professor, English. (1964)
Stuart Y. Keller, M.S. — New Mexico Highlands University
Substitute Instructor, Physics. (1964)
E. Chenault Kelly, Ed.D. — New York University
Professor, English. (1946)
Leo L. Kelly, Ph.D. — Purdue University
Associate Professor, Foreign Languages. (1965)
Nancy O. Keppler, M.S. — University of Illinois
Substitute Instructor, Home Economics. (Part Time) (1965)
William J. Keppler, Ph.D. — University of Illinois
Assistant Professor, Zoology. (1965)
Jason J. Kesler, B.A. — DePauw University
Assistant Professor, Economics. (1965)
Choong Han Kim, Ph.D. — Rutgers University
Assistant Professor, Library. (1965)
Paul F. Kirby, Ph.D. — University of Pittsburgh
Associate Professor, Foreign Languages
Walter A. Klehm, Ed.D. — University of Missouri
Professor, Industrial Arts.* (1938)
Judd Kline, Ph.D. — University of Minnesota
Professor, English. (1948)
Henry Knapp, Ph.D. — University of Nebraska
Associate Professor, Faculty for Professional Education. (1965)
Edna Kniskern, M.S. in Ed. — Eastern Illinois University
Instructor, Zoology. (1954)
Verne B. Kniskern, Ph.D. — University of Michigan
Professor, Zoology. (1950)
Cary I. Knoop, M.F.A. — University of Illinois
Assistant Professor, Art. (1953)

Lloyd L. Koontz, M.A. — University of Arkansas
Assistant Professor, Mathematics. (1963)
Eugene G. Krehbiel, Ph.D. — Kansas State University
Assistant Professor, Zoology. (1963)
James W. Krehbiel, Ph.D. — Indiana University
Assistant Professor, Music Theory, History and Literature. (1965)
June M. Krutza, M.F.A. — Indiana University
Assistant Professor, Art. (On leave fall and winter quarters, 1965-66) (1952)

Oren F. Lackey, M.S. — University of Illinois
Assistant Professor, Biological Sciences-Education. (1963)
Jane Lahey, M.S.Ed. — University of Illinois
Assistant Professor, Business-Education. (1957)
Jon M. Laible, M.A. — University of Minnesota
Assistant Professor, Mathematics. (Part Time) (1964)
Floyd A. Landsaw, M.S. in Ed. — Eastern Illinois University
Assistant Professor, Laboratory School. (1965)
Dolores Langdon, M.M. — Cleveland Institute of Music
Substitute Assistant Professor, Vocal Music. (1965)
Harry R. Larson, Ed.D. — Colorado State College
Assistant Professor, Faculty for Professional Education. (1960)
Richard W. Lawson, M.S.L.S. — Western Reserve University
Instructor, Library. (1964)
Ronald M. Leathers, M.S. — Indiana State University
Instructor, Speech-English-Education. (1965)
John W. LeDuc, M.S. — University of Utah
Instructor, Mathematics. (1965)
Ruby H. J. Lee, M.L.S. — Louisiana State University
Instructor, Library. (1965)
Lottie Leeds, M.S. — Indiana State University
Instructor, Laboratory School. (1958)
Glenn Q. Lefler, Ph.D. — Indiana University
Professor, Physics.* (1946)
Roland Leipholz, Ed.D. — University of Michigan
Associate Professor, Art. (1955)
Arthur J. Looby, Ed.D. — University of Missouri
Associate Professor, Psychology. (On sabbatical leave fall quarter, 1965) (1959)
Walter S. Lowell, Ed.D. — Michigan State University
Associate Professor, Physical Education for Men. (1961)

Fred W. MacLaren, Ph.D. — University of Oklahoma
Assistant Professor, School of Elementary and Junior High School Teaching (1965)
John N. Maharg, M.M.E. — Oberlin College
Assistant Professor, Vocal Music.* (1958)
Lawson F. Marcy, Ph.D. — The Ohio State University
Professor, Chemistry. (1944)
Elwyn L. Martin, Ph.D. — University of Michigan
Associate Professor, Geography. (On sabbatical leave fall and winter quarters, 1965-66) (1956)
John W. Masley, D.Ed. — Pennsylvania State University
Professor, Physical Education for Men. (1952)
Merrilie Mather, Ph.D. — Boston University
Associate Professor, English. (1951)
Gerhard C. Matzner, Ph.D. — Cornell University
Professor, Administration and Supervision. (1955)
David J. Maurer, Ph.D. — The Ohio State University
Assistant Professor, History. (1962)
Paul W. Mausel, Ph.D. — University of North Carolina
Assistant Professor, Geography. (1965)

William J. McCabe, M.A. ..... State University of Iowa
Assistant Professor, Physical Education for Men. (On leave 1965-66) (1962)
William E. McCaul, M.S. ..... University of Illinois
Instructor, Zoology. (1959)
Beryl F. McClerren, Ph.D. ..... Southern Illinois University
Associate Professor, Speech. (1964)
Frances W. McColl, M.A. ..... Columbia University
Assistant Professor, English. (1957)
Glenn A. McConkey, Ph.D. ..... State University of Iowa
Professor, Economics.* (1958)
Walter H. McDonald, Ph.D. ..... University of Illinois
Associate Professor, Geography. (1958)
Donald L. McKee, M.A. ..... University of Illinois
Instructor, Laboratory School. (1961)
F. Raymond McKenna, Ed.D. ..... Harvard University
Professor, Faculty for Professional Education. (1953)
Jerry McRoberts, M.A. ..... University of Illinois
Instructor, Art. (1963)
Robert E. Meier, M.S. ..... Southern Illinois University
Instructor, Management. (1964)
W. Kay Metcalf, M.S. in Ed. ..... Eastern Illinois University
Substitute Instructor, Physical Education for Women. (1965)
Roy A. Meyerholtz, M.A. ..... University of Illinois
Assistant Professor, Mathematics. (1961)
Elizabeth Michael, Ph.D. ..... Université Laval
Professor, Foreign Languages. (1930)
Martin M. Miess, Ph.D. ..... Universitaet Innsbruck
Professor, Foreign Languages.* (1956)
Drayton G. Miller, M.A. ..... Washington University
Instructor, Foreign Languages. (1964)
Frank A. Miller, B.A. ..... Swarthmore College
Assistant Professor, History. (1965)
William D. Miller, M.A. ..... University of Illinois
Instructor, English. (1963)
L. E. Miner, M.A. ..... Michigan State University
Instructor, Speech Correction. (1963)
William D. Miner, Ph.D. ..... Indiana University
Professor, History. (1950)
Talaat K. Mitri, M.S. ..... Oregon State University
Substitute Assistant Professor, Zoology. (1964)
Sandra Modisett, M.A. ..... Colorado State College
Instructor, Physical Education for Women. (1963)
Al R. Moldroski, M.A. ..... Michigan State University
Instructor, Art. (1963)
Donald L. Moler, Ph.D. ..... University of Kansas
Professor, Guidance and Counseling.* (1951)
Helen M. Moody, M.S. ..... Springfield College
Instructor, Physical Education for Women. (On leave 1965-66) (1962)
John H. Moore, M.A. ..... Michigan State University
Assistant Professor, Sociology-Anthropology. (1965)
Richard L. Morfit, Ph.D. ..... Université Laval
Associate Professor, Foreign Languages. (1963)
Mildred D. Morgan, M.A. ..... Columbia University
Assistant Professor, Laboratory School. (1946)
Ahmad Murad, Ph.D. ..... University of Wisconsin
Associate Professor, Economics. (On leave 1965-66) (1963)
Louise Murray, Ph.D. ..... Northwestern University
Professor, Laboratory School. (1951)
Sidney Murray, Ph.D. ..... State University of Iowa
Assistant Professor, Vocal Music. (1965)
Jack Murry, Ed.M. ..... University of Illinois
Instructor, Business Education and Secretarial Studies. (1965)

Jagdish L. Nanda, Ph.D. ..... Indiana University
Associate Professor, Mathematics. (1964)
Donna F. Neal, M.A. ..... Texas Woman's University
Instructor, Physical Education for Women. (1963)
Herbert P. Neitzel, M.A. ..... Montana State University
Instructor, Art. (1964)
Sandra L. Nelson, M.A. ..... DePauw University
Instructor, English. (1964)
Gerald Nestel, M.S. in Ed. ..... Southern Illinois University
Substitute Instructor, Industrial Arts. (1963)
Ben Newcomb, M.A. ..... Eastern New Mexico University
Instructor, Physical Education for Men. (1965)
Lawrence Nichols, Ph.D. ..... Duke University
Associate Professor, History. (1962)
Phyllis D. Nies, M.S. ..... University of Illinois
Instructor, Physical Education for Women. (1965)
Janet Norberg, Ph.D. ..... State University of Iowa
Associate Professor, Speech. (1963)
Jon G. Norem, M.S. ..... University of North Dakota
Instructor, Accounting. (1964)

Maynard O'Brien, Ed.D. ..... University of Illinois
Professor, Physical Education for Men.* (1946)
Ivan Olson, Ed.D. ..... University of Michigan
Assistant Professor, Music Education. (1964)
Geraldina Ortiz-Muniz, Ph.D. ..... Florida State University
Assistant Professor, Foreign Languages. (1962)
Maria M. Ovcharenko, Ph.D. ..... Charles University
Associate Professor, Foreign Languages. (1964)
Paul D. Overton, Ed.D. ..... Colorado State College
Assistant Professor, Faculty for Professional Education. (1962)

Ronald Paap, A.M. ..... Colorado State College
Instructor, Physical Education for Men. (1963)
Francis W. Palmer, Ph.D. ..... State University of Iowa
Professor, English. (1945)
Gregg W. Parks, M.A. ..... Indiana University
Instructor, English. (1965)
Rameshwar N. Paul, A.M. ..... University of Michigan
Assistant Professor, Library. (1962)
J. Robert Pence, Ed.D. ..... University of Illinois
Associate Professor, Music Education.* (1951)
Stuart L. Penn, Ph.D. ..... Yale University
Associate Professor, Philosophy.* (1960)
Harry E. Peterka, Ph.D. ..... University of Kansas
Professor, Zoology. (1947)
Charles E. Pettypool, M.A. ..... The Ohio State University
Assistant Professor, Mathematics-Education. (On sabbatical leave 1965-66) (1957)
Harris E. Phipps, Ph.D. ..... University of Illinois
Professor, Chemistry.* (1931)
Gerald Pierson, M.S. in Ed. ..... Eastern Illinois University
Instructor, History-Social Science-Education. (1963)
Harold O. Pinther, M.S. ..... University of Wisconsin
Assistant Professor, Physical Education for Men. (1954)
Raymond A. Plath, Ph.D. ..... University of Wisconsin
Professor, Economics. (1946)
Frances M. Pollard, Ph.D. ..... Western Reserve University
Associate Professor, Library. (1963)
Richard N. Pollard, D.esL. ..... University of Paris
Associate Professor, English. (1964)
Dalias A. Price, Ph.D. ..... University of Wisconsin
Professor, Geography.* (1958)

Florence Prybylowski, Ed.D. ..... Colorado State College of Education
Associate Professor, Physical Education for Women. (1958)

Van D. Psimitis, M.S. ..... Southern Illinois University
Instructor, Management. (1964)

Ruth S. Queary, M.S. in Ed. ..... Eastern Illinois University
Instructor, Mathematics. (1961)

Anola E. Radtke, M.M. ..... Indiana University
Assistant Professor, Laboratory School. (1964)

Hugh C. Rawls, Ph.D. ..... University of Alabama
Professor, Zoology. (1956)

Jacqueline M. Ray, B.A. ..... Butler University
Faculty Assistant, Physical Education for Women. (1965)

Mary Jo Read, Ph.D. ..... University of Wisconsin
Professor, Geography. (1965)

Jack J. Richardson, Ph.D. ..... Southern Illinois University
Associate Professor, Health Education.* (1965)

Rachael G. Richardson, M.S. in Ed. ..... Eastern Illinois University
Instructor, English. (1963)

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. ..... 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
Associate Professor, Physical Education for Men. (1964)

John L. Roberts, Ph.D. ..... State University of Iowa
Associate Professor, Business Education and Secretarial Studies. (1965)

James Robertson, Ed.D. ..... University of Illinois
Associate Professor, Music-Education. (1956)

John H. Robertson, M.A. ..... Western Michigan University
Instructor, Speech Correction. (1962)

Kathryn W. Robertson, M.S. in Ed. ..... Eastern Illinois University
Instructor, English. (1965)

Roger D. Roderick, M.S. ..... University of Illinois
Instructor, Economics (1965)

Donald L. Rogers, M.S. ..... Syracuse University
Assistant Professor, Laboratory School. (1963)

George W. Rommel, Ph.D. ..... Northwestern University
Professor, English. (1953)

Jerome J. Rooke, M.S. ..... Northern Illinois University
Assistant Professor, Accounting. (1965)

Donald A. Rothschild, Ph.D. ..... State University of Iowa
Professor, Psychology. (1934)

Al G. Rundle, M.A. ..... University of Denver
Assistant Professor, Speech. (1963)

Charles G. Russell, M.A. ..... Southern Illinois University
Instructor, Speech. (1965)

Olga W. Russell, Ph.D. ..... Radcliffe College
Associate Professor, Foreign Languages. (1965)

Betty G. Ruyle, M.A. ..... East Carolina College
Substitute Instructor, Laboratory School. (1965)

George P. Sanders, M.M. ..... Yale University
Instructor, Keyboard Music. (1964)

Martin Schaefer, Ph.D. ..... State University of Iowa
Professor, Faculty for Professional Education. (1958)

Lahron H. Schenke, Ed.D. ..... Teachers College, Columbia University
Associate Professor, Faculty for Professional Education. (1963)

Raymond J. Schneider, Ph.D. ..... University of Michigan
Assistant Professor, Theater Arts. (1961)

John J. Schuster, M.S. ..... University of Illinois
Assistant Professor, Instrumental Music. (1964)

Eugene Schweitzer, Ph.D. ..... University of Rochester
Assistant Professor, Music Theory, History and Literature. (1963)

Mary E. Scott, M.S. in L.S. ..... Columbia University
Assistant Professor, Library. (1948)

Walter M. Scruggs, Ph.D. ..... Harvard University
Professor, Zoology. (On sabbatical leave spring quarter, 1966) (1929)

Phillip M. Settle, M.F.A. ..... University of Illinois
Assistant Professor, Laboratory School. (1957)

Glenn H. Seymour, Ph.D. ..... University of Illinois
Professor, History. (1929)

Robert V. Shuff, Ph.D. ..... University of Minnesota
Associate Professor, Administration and Supervision.* (1964)

Carl E. Shull, Ph.D. ..... The Ohio State University
Professor, Art. (1947)

Henry Silverstein, M.A. ..... New York University
Assistant Professor, English. (1965)

Ann E. Smith, M.A. ..... State University of Iowa
Instructor, Theater Arts. (1962)

Calvin N. Smith, Ph.D. ..... Purdue University
Assistant Professor, Speech. (1965)

Catherine A. Smith, D.Mus. ..... Florida State University
Professor, Keyboard Music.* (1949)

Norman D. Smith, M.S.T. ..... University of Florida
Instructor, Chemistry. (1965)

P. Scott Smith, Ph.D. ..... Cornell University
Professor, Physics. (On sabbatical leave winter and spring quarters, 1965-66) (1953)

Richard L. Smith, Ph.D. ..... University of Texas
Assistant Professor, Botany. (1965)

Robert J. Smith, Ph.D. ..... State University of Iowa
Professor, Chemistry. (1955)

V. Carolyn Smith, M.N. ..... Western Reserve University
Assistant Professor, Health Education. (1952)

LeeAnna J. Smock, A.M. ..... University of Kansas
Assistant Professor, Library. (1944)

Barbara M. Snow, Ed.D. ..... Pennsylvania State University
Professor, Physical Education for Women.* (1964)

Margaret Soderberg, Ph.D. ..... Washington University
Assistant Professor, Political Science. (1963)

Robert B. Sonderman, Ed.D. ..... University of Missouri
Professor, Industrial Arts. (1956)

Frank A. Sotka, M.S. in Ed. ..... University of Illinois
Assistant Professor, Marketing. (1964)

Roland D. Spaniol, M.S. in Ed. ..... Illinois State University
Assistant Professor, Business-Education. (On sabbatical leave 1965-66) (1960)

Henry A. Stackhouse, Ed.D. ..... University of Missouri
Associate Professor, Psychology. (1960)

Laris A. Stalker, M.A. ..... University of Michigan
Instructor, Laboratory School. (1963)

Ray V. Stapp, D.Ed. ..... Pennsylvania State University
Associate Professor, Art. (1964)

Helen Starck, M.Ed. ..... Colorado State College
Assistant Professor, Home Economics. (1964)

Sidney R. Steele, Ph.D. ..... The Ohio State University
Professor, Chemistry. (1947)

M. Lee Steinmetz, Ph.D. ..... Brown University
Associate Professor, English. (1959)

Robert W. Sterling, M.S. in Ed. — Eastern Illinois University
Assistant Professor, History. (1956)

Verne A. Stockman, Ed.D. — Michigan State University
Professor, Faculty for Professional Education. (1955)

Gayle G. Strader, B.S. in Ed. — Eastern Illinois University
Faculty Assistant, Laboratory School. (1965)

Clifford E. Strandberg, Ed.D. — Texas A & M University
Associate Professor, Industrial Arts. (1965)

Robert N. Sullivan, M.A. — Murray State College
Instructor, Business Education and Secretarial Studies. (1964)

Donald Swope, M.S. — Columbia University
Instructor, Library. (1964)

Mary Ruth Swope, Ed.D. — Columbia University
Professor, Home Economics.* (1962)

P. Rex Syndergaard, Ph.D. — St. Louis University
Professor, History.* (1956)

Henry A. Taitt, M.S. — University of Delaware
Assistant Professor, Physics. (1965)

Ellwood R. Tame, Ph.D. — University of Denver
Associate Professor, Speech. (1965)

Virginia Tate, M.Ed. — University of Missouri
Assistant Professor, Laboratory School. (1952)

Frank S. Taylor, M.A. — Boston University
Assistant Professor, Philosophy. (1965)

Richard L. Taylor, M.S. in L.S. — University of Illinois
Assistant Professor, Library. (1961)

Francis L. Teller, M.A. — Teachers College, Columbia University
Assistant Professor, Physical Education for Men. (1963)

Neil A. Thorburn, Ph.D. — Northwestern University
Assistant Professor, History. (1965)

Adrianne Thornburgh, A.B. — Simpson College
Faculty Assistant, Library. (Part Time) (1963)

Daniel E. Thornburgh, M.A. — State University of Iowa
Assistant Professor, English. (1959)

Wayne L. Thurman, Ph.D. — Purdue University
Professor, Speech Correction.* (1953)

Hiram F. Thut, Ph.D. — The Ohio State University
Professor, Botany. (1932)

Robert C. Timblin, M.A. — University of Illinois
Assistant Professor, Sociology-Anthropology. (On sabbatical leave 1965-66) (1960)

Donald F. Tingley, Ph.D. — University of Illinois
Professor, History. (1953)

Donald C. Todd, M.M. — Northwestern University
Assistant Professor, Instrumental Music. (1957)

Lynn E. Trank, Ph.D. — The Ohio State University
Associate Professor, Art. (1952)

Charles Tucker, B.S. in Ed. — Eastern Illinois University
Faculty Assistant, Chemistry. (1955)

Curtis J. Twenter, Ed.D. — University of Missouri
Substitute Assistant Professor, Physical Education for Men. (1964)

Marie N. Tycer, Ph.D. — The Ohio State University
Associate Professor, English. (1961)

David Ulfeng, M.S. — University of Illinois
Instructor, Laboratory School. (1965)

Helen VanDeventer, M.S. in Ed. — Eastern Illinois University
Instructor, Foreign Languages-Education. (1960)

Richard A. VanOrman, Ph.D. — Indiana University
Assistant Professor, History. (1965)

Charles R. Vaughan, M.S. in Ed. — Eastern Illinois University
Instructor, Physical Education for Men. (1965)

Robert C. Waddell, Ph.D. — Iowa State College
Professor, Physics. (1948)

Eugene M. Waffle, Ph.D. — George Peabody College for Teachers
Professor, English.* (1926)

Allan J. Wagenheim, M.A. — Columbia University
Instructor, English. (1964)

James A. Walker, Ph.D. — Harvard University
Associate Professor, English. (1963)

Ben P. Watkins, M.A. — Louisiana State University
Assistant Professor, Art. (1964)

Charles W. Watson, M.A. — Western Kentucky State College
Instructor, Industrial Arts. (1965)

Robert W. Weidner, Ph.D. — University of Rochester
Associate Professor, Music Theory, History and Literature. (1965)

Terry M. Weidner, Ph.D. — The Ohio State University
Assistant Professor, Botany. (1964)

Bruce E. Weier, M.A. — University of Oklahoma
Instructor, Foreign Languages. (1964)

George S. Wescott, Ph.D. — State University of Iowa
Professor, Instrumental Music. (1949)

Robert V. Wharton, Ph.D. — Columbia University
Professor, English. (1956)

Paul A. Wheeler, M.S. — West Virginia University
Instructor, Physical Education for Men. (1965)

Robert F. White, Ph.D. — University of Pennsylvania
Associate Professor, English. (1960)

Wesley Whiteside, Ph.D. — Florida State University
Associate Professor, Botany. (1960)

L. Stephen Whitley, Ph.D. — Purdue University
Assistant Professor, Zoology. (1963)

Carl E. Wilen, M.F.A. — University of Illinois
Instructor, Art. (1965)

Roger G. Wiley, M.A. — Louisiana State University
Assistant Professor, Speech. (1964)

Larry J. Williams, M.A. — University of Oregon
Instructor, Mathematics. (1964)

Gilbert E. Wilson, M.A — State University of Iowa
Assistant Professor, Health Education. (1962)

Margaret Wiseman, M.S. in Ed. — Southern Illinois University
Instructor, Laboratory School. (1964)

Leonard C. Wood, Ph.D. — University of Pennsylvania
Assistant Professor, History. (1960)

William G. Wood, Ph.D. — University of Illinois
Professor of Sociology-Anthropology.* (1938)

M. Thomas Woodall, Ph.D. — State University of Iowa
Assistant Professor, Physical Education for Men. (1965)

Wayne E. Wyler, M.S. — Brigham Young University
Assistant Professor, Accounting. (1965)

Mary Ruth Yates, M M. — University of Illinois
Assistant Professor, Keyboard Music. (1960)

Robert Zabka, Ph.D. — Northwestern University
Associate Professor, Faculty for Professional Education. (1964)

Lorene E. Ziegler, Ed.D. — Columbia University
Professor, Laboratory School. (1947)

Harry Zuger, A.M. — Wayne State University
Instructor, English. (1965)

I. General Information

FUNCTION

All programs of instruction at Eastern Illinois University are designed to help young people become educated persons, in the broadest sense of the term. Professional programs are offered in several fields. General liberal arts currricula are available in several disciplines for those wanting a broad education for its own sake or as preparation for later professional or graduate study.

RATING

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.

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 12,000.

HISTORY

The General Assembly of Illinois, by an act approved May 22, 1895, established the Eastern Illinois State Normal School.

In response to changing demands, Eastern Illinois Normal School became, successively, Eastern Illinois State Teachers College (1921), Eastern Illinois State College (1947), and Eastern Illinois University (1957).

In 1907 the power of conferring degrees was granted to the institution by the General Assembly. Courses leading to the Bachelor of Education degree were announced in 1920. In 1944 the degree was changed to Bachelor of Science in Education.

Courses leading to the Master of Science in Education degree were announced in 1951; the first master's degrees were conferred July 31, 1952. The master's degree was recognized by the North Central Association of Colleges and Secondary Schools in March, 1953.

In 1954, the Teachers College Board authorized curricula leading to Bachelor of Arts and Bachelor of Science degrees, without preparation for teaching. The first such degree was conferred in June, 1955.

In 1962, the Teachers College Board approved the establishment of curricula leading to the Master of Arts and Master of Science degrees. The first Master of Arts degree was conferred in May, 1963.

In 1962, the Teachers College Board approved the establishment of curricula leading to the Bachelor of Science in Business degree. The first such degree was conferred in August, 1964.

In 1964, the Teachers College Board approved the establishment of curricula leading to the Certificate of Advanced Study, which was changed to the Specialist in Education degree in 1965.

In 1965, the Board of Governors (formerly Teachers College Board) approved the establishment of curricula leading to the Bachelor of Science in Industrial Technology degree and the Bachelor of Science in Home Economics degree.

BUILDINGS AND GROUNDS

The Campus

The grounds cover an area of two hundred and sixty-six acres.

Burgner Ten Acres

A plot of wooded land in Coles County was deeded to the university in 1955 by Mrs. Helen Burgner Douglas of Mattoon in memory of her parents. The site is used for nature study.

Rocky Branch Area

Through the generosity of Nature Conservancy and an anonymous donor, a tract of 126 acres approximately 26 miles southeast of Charleston was given to the university early in 1966. The area is used mainly for study and research by the students and staff in the Division of Life Sciences.

Livingston C. Lord Administration Building (Old Main)

The main building houses administrative offices; the library reserve room; and classrooms for the School of Business and the Departments of English, Psychology, and Mathematics. It is named for the university's first president. It was completed in 1899 as the university's first structure.

Pemberton Hall

This structure was enlarged in 1962 to accommodate 201 women. It was erected in 1909 as the university's first residence hall.

Francis G. Blair Hall

This building is now occupied by the School of Business, the Faculty for Professional Education, the Audio-Visual Center, and the Data Processing Center. It is named for the first director of the training school. It was originally the university's training school.

Practical Arts Building

The Departments of Industrial Arts and Home Economics are currently housed in this building.

Charles Philip Lantz Gymnasium

Facilities in this building include a gymnasium with bleacher capacity of approximately 2,000, a smaller gymnasium, and several classrooms and specialized areas. Now used for both men's and women's physical education, it will be assigned to women's physical education upon completion of the new Physical Education and Recreation Building. Its name will then be changed to Florence McAfee Women's Gymnasium.

Science Building

This building contains classrooms and laboratories for the Departments of Chemistry, Geography, and Physics. It was completed in 1939 and remodeled in 1964.

Life Science Building

Housed in this building are the Departments of Botany and Zoology and the Division of Health Education. Security Offices in a portion of the building are to be moved when new quarters are available. Associated with the Life Science Building is a complex of greenhouses. The major wing of the building was constructed in 1963, with the Annex added the following year.

The Mary J. Booth Library

The library is named for Dr. Mary J. Booth, librarian from 1904 to 1945. It was opened in 1950 and is located in the center of the campus.

Lincoln Hall and Douglas Hall

These residence halls were opened in September, 1952. Each houses 161 students.

North House and South House

North House and South House are ranch-type structures used for demonstrating home management as a part of the home economics curriculum. The Office of Admissions is currently located in the North House.

Robert G. Buzzard Laboratory School

The campus laboratory school for kindergarten through grade nine was completed in 1958. It is named for the university's second president.

University Union

This building contains a caferteria, the Panther Lair snack shop, a ballroom, lounges, recreation facilities, meeting rooms, and offices. It was completed in 1957. A substantial addition is under construction.

Ford, McKinney, and Weller Halls

These three residence halls house a total of 454 women. They are named for former members of the university faculty. The structures were completed in 1958.

University Apartments

Living facilities for married students are provided in three housing units of thirty apartments each. Two of the units were completed in 1959, and the third in 1965. They are located on Terrace Lane at the south edge of the campus.

Fine Arts Center

This building houses the School of Music and the Department of Art. It contains a "little theater," numerous practice and rehearsal rooms for music, and studios and laboratories for the Art Department. It was completed in 1959.

Andrews Hall

This residence hall houses 480 women. It is named for a former faculty member, Dr. Franklyn Andrews and was opened in 1964.

Clinical Services Building

This structure houses the health service, testing center, reading, speech and hearing clinics, and counseling center. It was opened in September, 1964.

Buzzard House

The former home of Eastern's second president houses the Assistant Dean of Student Personnel Services and the Director of Financial Aids.

Charles H. Coleman Classroom Building

This building is named for Dr. Charles H. Coleman, eminent Lincoln scholar and long-time member of the Department of History. The building houses the Departments of Speech, Foreign Languages, History, Sociology-Anthropology, Economics, Political Science, and Philosophy. It was completed in 1965.

Booth House

This building furnishes offices for the Civil Service Personnel Director, Director of Residence Hall Food Services, the Assistant Dean of Men, and the Assistant Dean of Women. The building is a bequest from the late Miss Mary Josephine Booth.

Thomas Hall

This residence hall was completed in 1963. It houses 438 men and is named for the late Professor S. E. Thomas, long a member of the Social Science faculty.

Physical Plant Services Building

This building is located in the far northwest corner of the campus and houses shops for personnel responsible for maintenance and operation of the physical plant.

Taylor Hall

This residence hall for 590 men is to be ready for occupancy in the fall of 1966. It is named for the late Dr. Edson H. Taylor, long a member of the Mathematics Department.

Physical Education and Recreation Building

This building, to be occupied late in 1966, houses facilities for intercollegiate athletics and many recreational activities. It was financed partly from student fees and partly from tax funds. When dedicated, it will be named for the late Dr. Charles P. Lantz, head of the Department of Physical Education for Men for more than four decades.

Applied Arts-Education Center

This building is to house the Departments of Home Economics and Industrial Arts and the Faculty for Professional Education. It is scheduled for occupancy in 1967.

Gregg Triad

The Gregg Triad was completed in 1966 as a dining hall to serve the occupants of Ford, McKinney, and Weller Halls. It is named for Mr. Raymond Gregg, Business Manager at the university from 1934 to 1963.

Telephone and Security Building

Offices of the Security staff and the equipment and personnel necessary for the operation of the university telephone system are to be housed in this building, scheduled for completion in late 1966.

ORGANIZATION OF THE UNIVERSITY

Eastern Illinois University is one of five state universities and colleges under the general jurisdiction of the Board of Governors of State Colleges and Universities. The internal organization at Eastern consists of two major divisions—instruction and administration.

Included within the instruction division are the instructional services (Library, Audio-Visual Center) and the various instructional units. Major instructional units are the Graduate School, College of Letters and Science, School of Elementary and Junior High School Teaching, School of Business, School of Music, School of Health and Physical Education, and the Faculty for Professional Education. Approval has been given for the establishment, within the next few years, of a School of Industrial Arts and Technology and a School of Home Economics, both from presently unaffiliated departments. A Division of Latin American Studies administers interdisciplinary programs in that field leading to both teaching and non-teaching degrees. A Division of Pre-Medical Studies and a Division of Pre-Engineering Studies administer programs in their respective fields.

The administration division includes student academic services, student personnel services and business services.

FIELDS OF STUDY

Bachelor of Science in Education

Majors:

- Art
- Botany
- Business
- Chemistry
- English
- Foreign Languages
- Geography
- History
- Home Economics
- Industrial Arts
- Latin American Studies
- Manual Arts Therapy
- Mathematics
- Music
- Physical Education
- Physics
- Social Science
- Speech
- Theater Arts
- Zoology

Minors:

- Art
- Biological Science
- Botany
- Business
- Chemistry
- English
- Foreign Languages
- Geography
- Health Education
- History
- Home Economics
- Industrial Arts
- Journalism
- Latin American Studies
- Library Science
- Mathematics
- Music
- Physical Education
- Physics
- Psychology
- Safety and Driver Education
- Social Science
- Speech
- Speech Correction
- Theater Arts
- Zoology

Bachelor of Science in Business

Majors:

- Accounting
- Marketing
- Management
- Secretarial

Bachelor of Science in Home Economics

Majors:

- Dietetics
- Home Economics in Business

Bachelor of Science in Industrial Technology

Options:

- Electricity and Electronics
- Light Building Construction
- Metalwork

Bachelor of Science

Majors:

- Art
- Botany
- Business
- Chemistry

Economics
English
Foreign Languages
Geography
History
Home Economics
Industrial Arts
Mathematics
Music
Physical Education
Physics
Political Science
Sociology
Speech
Theater Arts
Zoology

Minors:

Art
Botany
Business
Chemistry
Economics
English
Foreign Languages
Geography
History
Home Economics
Industrial Arts
Journalism
Mathematics
Music
Philosophy
Psychology
Physics
Political Science
Sociology
Speech
Theater Arts
Zoology

Bachelor of Arts

Majors:

Art
Botany
Business
Chemistry
Economics
English
Foreign Languages
Geography
History
Home Economics
Industrial Arts
Latin American Studies
Mathematics
Music
Physical Education
Physics
Political Science
Sociology
Speech
Theater Arts
Zoology

Minors:

Art
Botany
Business
Chemistry
Economics
English
Foreign Languages
Geography
History
Home Economics
Industrial Arts
Journalism
Mathematics
Music
Philosophy
Psychology
Physics
Political Science
Sociology
Speech
Theater Arts
Zoology

Master of Science in Education

Specialization:

Elementary Education

Areas of Concentration:

Art
Biological Sciences
Business Education
Educational Administration
Guidance and Counseling
English
Foreign Languages
Geography
History
Industrial Arts
Mathematics
Music
Physical Education
Physical Science
Social Science
Speech

Master of Arts

Majors:

History
Mathematics
Music

Master of Science

Physics
Speech Correction

Specialist in Education (two-year graduate program)

Major Area: Educational Administration

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 1965-66 are Gail Lathrop, Olney, president; John Huffman, Mattoon, vice-president; and Ronald Leathers, Charleston, 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 Harry Read, Charleston; Aaron Gray, Belleville; Charles M. Montgomery, Mattoon; Mrs. Jahala DeMoulin, Decatur; Park Fellers, Hillsboro; Mrs. Marilyn H. Sinclair, Oblong; Glen Hesler, Mattoon; Bob Miller, Springfield; W. D. Norviel, Belleville; Jack Whitson, Decatur; John C. Gibson, Paris; and Larry Mizener, Charleston.

Alumni have formed chapters of the Eastern Illinois University Alumni Association in several counties of Illinois. These clubs usually meet from one to four times each year with programs designed to keep graduates and former students in touch with each other and with the university.

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.

Joint Alumni Council

The alumni organizations of the five institutions under the Board of Governors, the University of Illinois, and Southern Illinois University form the Joint Alumni Council. Each is represented by its president, its alumni organization president, two representatives of the alumni organization, and the institution's alumni services director.

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 president of the university, the chairman of the Board of Governors, and the president of the Alumni Association are automatically honorary members of the foundation. The regular members include one hundred alumni of the university. The board of directors consists of nine persons, including the president of the university, president of the Alumni Association, the director of alumni services and six elected members.

II. Student Life and Activities

LIVING ACCOMMODATIONS

University Policy

Single students under the age of twenty-one are required to live in university-registered housing except when living at home or with relatives, or when special written permission has been secured from the Dean of Women or Dean of Men. It is understood that when a student contracts for accommodations in a residence hall, university apartment, or registered housing, he agrees to comply with the rules and regulations governing those living units as well as the rules and regulations for all university students.

On Campus Housing

Residence Halls. Applications for accommodations in the university residence halls may be made to the Director of Housing prior to acceptance for admission to the university. Students are encouraged to apply for housing at an early date. Accommodations are available as follows:

Women		*Men*	
Andrews Hall	480	Taylor Hall	590
Douglas Hall	161	Thomas Hall	438
Ford Hall	152		
Lincoln Hall	161		
McKinney Hall	150		
Pemberton Hall	201		
Weller Hall	152		

Further information relative to cost of room and board and the housing security deposit which must accompany the application may be found in Section III.

Married Student Housing. Applications for the University Apartments may be secured from the Director of Married Student Housing.

Housing for married students consists of ninety units, located on Terrace Lane at the south end of the campus. The 36 two-room apartments and 54 one and one-half room apartments are each provided with sofa bed, chair, dinette set, corner tables, and other items of efficiency equipment. Electricity, heat, hot water, T.V. antenna outlets, washers, etc. are furnished by the university. To occupy an apartment, a person must be married, living with his family, and enrolled at Eastern.

A housing security deposit of $25 is required of all tenants housed in university-owned apartments. When occupancy ceases and all property and damages, if any, are satisfactorily accounted for, the deposit is refunded in whole or in part.

Off-Campus Housing

Housing is available off campus in registered housing. A registered house is a home in the community which has been approved as meeting the standards set by the university. A list of vacancies in registered housing is maintained in the office of the Director of Housing. The student is responsible for making arrangements with the householder for a room in the community; however, the university requires a signed agreement between the householder and student.

Married students desiring to live in university-registered off-campus housing may secure a rental list at the Office of the Director of Married Student Housing.

GENERAL SERVICES

Counseling

The Counseling Center is staffed by professional counselors who assist university students in matters pertaining to vocational choice, personal and social adjustment, and educational development. Limited psychological services are available without charge. Special materials are available for students interested in investigating specific occupational fields.

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.

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 all reasonable hospital expense, 80% of surgical or medical fees, and 80% major medical expense up to $5,000 for any one accident or period of illness.

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 a requirement for 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 status. Eastern graduates who hold a degree other than in education are eligible for teacher placement if requirements for a regular teacher's certificate are met. *Graduate Students* may register for placement if they have attended Eastern for one quarter and have earned 16 quarter hours of graduate credit toward a master's degree. This credit may include graduate extension courses offered off campus. *Alumni* may re-register by bringing their credentials up to date and paying a fee of $2.

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

Testing

Testing and consultative services are available to university students and area schools. Interest and personality inventories as well as aptitude and intelligence tests are administered and evaluated free of charge not only to university students but also to pupils who are referred by school officials.

Consultative services are available to schools desiring to set up testing programs; considerable test material is available for examination.

The Testing Service has 805 and 1230 IBM test scoring machines, and the scoring of standardized tests is a service that may be arranged for by area schools at nominal cost.

For detailed information write to the Director of Testing Services.

INSTRUCTIONAL SERVICE

Audio-Visual Services

The Audio-Visual Center in Blair Hall operates as an educational service for faculty and students. Audio-visual teaching materials such as films, film-strips, and recordings are available both from a small on-campus library and from rental sources. Orders for rental films usually take three weeks. Preview services are available on a

limited basis. Slides, transparencies, photographic copies, and other graphic materials may be produced for individual instructors. Consultative service is offered to university faculty, prospective teachers, and to schools in the area.

Book Rental and Sales

Basic textbooks for university courses are rented to students through the Textbook Library. Book rent is paid at the time of registration. Laboratory manuals, special notebooks, and other materials not classified as basic textbooks may be purchased by the student as needed. Textbooks may be purchased any time with the exception of two-week periods at the beginning and end of each quarter. Used books are sold to students at a ten per cent discount off the cost price for each time the book has been checked out, as indicated by the record on the book card.

Rented textbooks must be returned in satisfactory condition by a specified time at the end of each 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. 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. This library provides a comprehensive collection of materials for instructional and recreational purposes. It has a total of 131,000 volumes, plus over 4,500 cataloged items in the record music collection and a substantial number of uncataloged pamphlets, pictures and prints. The library is an official depository for federal documents. It currently receives over 1,400 different periodicals. A browsing room for general reading is provided. The music listening room, with its store of classical and popular records, is open on regular schedule to students, and there are frequent exhibitions of paintings and craft work in the Paul Turner Sargent Art Gallery.

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 this collection and with its method of operation.

Reserve Reading Room. Books which departments request be placed on reserve are located in the Reserve Reading Room in Old Main. This service is available daily according to a posted schedule.

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 the campus elementary school, 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 improvements of speech disorders. The services are available without charge to university students, Laboratory School pupils, and children and adults in east central Illinois. Junior and senior students in courses of speech and hearing obtain required clinical practice by working with these people under supervision.

SOCIAL AND CULTURAL LIFE AND ACTIVITIES

Student-Faculty Boards

Except for those carried out by groups such as fraternities and clubs, most student activities are supervised cooperatively by the students and the faculty by means of student-faculty boards and committees. Members of these boards are appointed by the president of the university with nominations of faculty members coming from the Faculty Senate and nominations of student members coming from the Student Senate. The Dean of Student Personnel Services, or his representative, and the president of the Student Senate are ex officio members of all boards. The following boards have been established: Apportionment Board, Artists Series Board, Health and Hospitalization Board, Lecture Series Board, Men's Athletic Board, Music Activities Board, Radio Board, Speech Activities Board, Student Publications Board, Traffic and Safety Board, University Union Board, Women's Athletic Board.

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 by individuals and groups of national reputation programs of music, theater, and dance.

A student-faculty Artists Series Board arranges and executes the series, keeping in mind 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 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, ballroom, lounges, and offices for the Director, Director of Food Services, and the Student Senate.

The Director, assisted by a student-faculty board, plans a variety of activities for the students. Included are dances, receptions, recitals, billiards, bridge and chess contests and instruction.

Organizations wishing to use university facilities for meetings schedule these facilities at the University Union desk.

Forensics

Opportunities to participate in extemporaneous speaking, oratory, discussion, debate, and parliamentary legislative assembly are available to all students.

Forensic squad members compete in dual meets and in tournaments throughout the Middle West. They also appear on local radio broadcasts and at neighboring high schools and civic clubs.

Intercollegiate forensic affiliations include the Illinois Intercollegiate Debate League, The Illinois Intercollegiate Oratorical Association, the American Forensic Association, and Pi Kappa Delta.

Theater

The Department of Theater 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 theater can be obtained.

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

Radio

Radio programs are produced in the Fine Arts Studio by students interested in broadcasting. All students may participate regardless of major or minor concentration. Programs are broadcast

periodically over local stations and others. A student station, WELH, broadcasts to residence halls daily.

Music

Music organizations provide opportunities for musical growth through enjoyable activities which in turn contribute richly to the life of the university. Instrumental organizations include a marching band, a concert band, a pep band, symphonic winds, and an orchestra. Major choral organizations are the mixed chorus, men's glee club, and the Cecilian Singers. Other special vocal and instrumental ensembles afford additional opportunities for students to study and perform music.

These organizations present public concerts throughout the year.

Publications

Student publications are a 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 adviser. 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 adviser, is responsible for the publication. All qualified students are eligible for the staff.

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

Women's Athletics

The Division of Physical Education for Women sponsors the Women's Athletic Association which is open to all women enrolled as regular students. Any student becomes a member of the Women's 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 sportsdays held at Eastern. There are fifteen activities during the year. Activities offered by the Women's Athletic Association are apparatus, archery, badminton, baitcasting, bowling, canoeing, fencing, folk and square dancing, golf, hockey, modern dance, softball, swimming, and tennis. Basketball, bowling, 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 Athletic Association to students who participate actively in the athletic program for women.

Intramural Athletics

The Division 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

Through the medium of intercollegiate athletics opportunities for competition are presented for 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 necessary in good teaching will result. In addition, the acquisition of certain professional techniques and skills basic to the development of sound teaching practice as well as individual recreational competence 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 maintains a program of intercollegiate athletics in football, basketball, baseball, track, cross country, wrestling, tennis, golf, gymnastics, swimming, and soccer. The university adheres to the policies of the North Central Association of Colleges and Secondary Schools concerning intercollegiate athletics.

STUDENT ORGANIZATIONS

Student Senate

The Student Senate is the representative body for all students. The officers are elected by popular vote and members are elected by departmental and social organizations.

The Senate is concerned with matters pertaining to student welfare, student activities, and student participation in university planning and administration. It takes responsibility for such events as Parents Weekend, campus elections, and light concerts. Student members of the student-faculty boards are appointed by the president of the university on nomination by the Student Senate.

Departmental Clubs

Accounting, Amateur Radio, Ahmoweenah Writers, Elementary and Jr. High Men, Botany, English, French, German, History, Home Economics, Industrial Arts, Latin, Management Forum, Marketing, Mathematics, Men's Physical Education, Music Educators National Conference, Student Affiliate Section of the American Chemical Society, Student Affiliate of National Art Education Association, Student Section of The American Institute of Physics, Pre-Medical Association, Radio-TV, Readers' Theatre Guild, Russian, Spanish, University Council for the United Nations, Women's Physical Education, Zoology Seminar.

Religious Organizations

Baptist Student Union, Canterbury Association, Christian Science Fellowship, EUB and Friends, Gamma Delta, Hillel Foundation, Inter-Varsity Christian Fellowship, Newman Club, Roger Williams Fellowship, Student Religious Council, United Campus Christian Fellowship, Wesley Foundation.

Athletic Organizations

Varsity Club, Women's Athletic Association.

Residence Hall Council and Association

Each residence hall organizes a council to assist in improving student life in the hall. The Residence Hall Association, which comprises residence hall council presidents and elected representatives from each hall handles matters common to all residence halls.

Service Organizations

Alpha Phi Omega, Circle K Club.

Special Groups

Association for Childhood Education, Association of International Students, Council on Human Relations, Independent Student Association, Interdepartmental Forum, Pompon Corps, Student Education Association, Student Wives' Organization, Young Democrats, Young Republicans.

Interfraternity Council

The Interfraternity Council, composed of three members from each fraternity, aids in establishing policies relating to the fraternity system. It cooperates with the Panhellenic Council in planning the annual Greek Week program. The following fraternities are represented:

Alpha Kappa Lambda, Rho Chapter
Beta Sigma Psi, Mu Chapter
Delta Sigma Phi, Delta Psi Chapter
Phi Sigma Epsilon, Delta Chapter
Pi Kappa Alpha, Zeta Gamma Chapter
Sigma Pi, Beta Gamma Chapter
Sigma Tau Gamma, Alpha Alpha Chapter
Tau Kappa Epsilon, Gamma Omega Chapter

Panhellenic Council

The Panhellenic Council is composed of 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:

Alpha Gamma Delta, Beta Iota Chapter
Delta Zeta, Gamma Nu Chapter
Kappa Delta, Delta Beta Chapter
Sigma Kappa, Gamma Mu Chapter
Sigma Sigma Sigma, Alpha Psi Chapter

Honorary Fraternities

Alpha Epsilon Rho, Alpha Lambda Chapter: Radio and Television
Beta Beta Beta, Gamma Theta Chapter: Biological Science
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
Kappa Pi, Chi Chapter: Art
Phi Alpha Theta, Epsilon Mu Chapter: History
Phi Beta Lambda, Iota Omicron Chapter: Business and Business Education
Phi Delta Kappa, Delta Omega Chapter: Education
Phi Epsilon Kappa, Beta Zeta Chapter: Men's Physical Education
Phi Mu Alpha Sinfonia, Sinfonia Colony: School of Music
Phi Sigma Mu, Theta Chapter: Music Education
Pi Delta Epsilon: Journalism
Pi Kappa Delta, Illinois Sigma Chapter: Forensics
Pi Omego Pi, Alpha Chi Chapter: Business Education
Sigma Alpha Eta, Alpha Alpha Chapter: Speech and Hearing Disorders
Sigma Delta Psi, Epsilon Sigma Chapter: Men's Athletics
Sigma Tau Delta, Upsilon Gamma Chapter: English

AUTOMOBILE REGISTRATION AND CONTROL

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.

After the first week of classes each quarter, the owner of a car found parked on the campus without a registration sticker will be charged a $5 late registration fee.

Parking Permits

An application for a parking permit should be made at the Security Office. 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 $1 for a calendar year. A permit for the summer session is 50c.

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

Failure to report a change affecting parking privileges—$5; Falsification of registration—$10 and possible referral for disciplinary action; Parking violations, 1st offense—$1, 2nd offense—$5, 3rd offense—$10, 4th offense—loss of campus parking privileges and possible referral for disciplinary action; Moving violations, 1st offense—$5, 2nd offense—$10, 3rd offense—$15, 4th offense—loss of campus parking privileges and possible referral for disciplinary action.

Offenses shall be considered cumulative for any and all violations cited above for the period of the automobile registration. A student, faculty member, or employee may appeal his case to the Traffic and Safety Committee. Appeal forms may be obtained in the Security Office.

III. Student Expenses and Financial Aid

EXPENSES

Application Fee

A non-refundable charge of $15 must accompany the application for admission of both undergraduate and graduate students.

Quarterly Fees

Fees described below are payable on or before registration day of each quarter:

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

Registration Fee	$40.00
Service Fee*	37.50
Total	$77.50

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:

Course Fee (per course)	$12.50
Service Fee** (per course)	7.50
Total	$20.00

A part-time student may purchase a student activity ticket for the regular price of $10. He is not permitted to purchase health and accident insurance.

Out-of-State Tuition: In addition to the regular university fees, a student who is not a legal resident of the State of Illinois is required to pay an Out-of-State Tuition Fee of $57.00 per quarter if enrolled as a full-time student. A part-time student must pay $14.25 per course each quarter in addition to the regular fees.

A student under 21 years of age is considered a non-resident of Illinois and subject to payment of out-of-state tuition fee unless the parents (or legal guardians) are residents of Illinois. This means that the parents (or legal guardians) have a 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 bona fide 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 21 who becomes an Illinois resident because of marriage to a man who is a legal resident.

*Student Activity Fee—$10, Bond Revenue Building Fee—$14, Textbook Rental Fee—$8, Health Insurance Fee—$5.50.

**Bond Revenue Building Fee—$5, Textbook Rental Fee—$2.50 (per course). The Bond Revenue Building Fee is payable by each student for the construction and maintenance of the University Union and Physical Education and Recreation Building.

Extension Fees

The fee is $24 for each four-quarter-hour course with an additional charge of $2 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 for anyone 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 fifth day of university classes.

Fee for Late Tests. Students applying for admission must furnish test scores administered by the American College Testing Program (ACT). Students failing to furnish such test scores or failing to arrange to take comparable tests on campus will be subject to a late testing fee of $1 per test.

Applied Music Fee. A fee of $7.50 is charged for each applied music course taken by a student whose major and minor are in fields other than music.

Graduation Fee. Candidates for graduation must make application for graduation at the Records Office and pay the graduation fee at the Business Office before April 1 for the May graduation and before July 1 for the August graduation. The fee of $15 for graduate degree candidates and $10 for undergraduate degree candidates includes the cost of cap and gown rental.

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 50c 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 examinations. The cost of a damaged or lost book is also charged.

Change of Program Fee. A fee of $5 is charged for each course added after registration day. The fee is non-refundable. Certain exemptions are permitted. No additions may be made to student programs after the fifth day of university classes.

Chemistry Breakage Ticket. A deposit of $3 is required for a breakage fee in all chemistry classes except Chemistry 340. 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 and industrial arts. Completed projects are the property of the student. The foregoing statement applies to all art courses and elective projects in industrial arts courses numbered 336, 356, 420, and 447.

Residence Hall Charges

Housing Security Deposit. A housing security deposit of $25 is required with 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. The deposit will be refunded upon request if the application is cancelled in writing prior to the signing of a residence hall contract. When a residence hall contract has been signed by an applicant, refund of the deposit will be made according to the terms of the contract.

Board and Room Charges. During the fall, winter, and spring quarters, charge for board and room in university residence halls is $264 per quarter, if paid in full in one payment, or $266 per quarter, if paid in installments on dates set by the university. This payment includes towels and linens; it does not include Sunday evening meals and meals during vacation periods. Rates for the summer quarter and summer terms are published in the summer bulletin.

Most rooms are for double occupancy, except that a few single rooms are available. A few rooms are occupied by three persons. Details concerning residence hall occupancy are found in the residence hall contract. Detailed information on possible installment payment is available from the Office of the Director of Housing.

The university reserves the right to increase residence hall rates, if necessary, at the beginning of any quarter or summer term, with the understanding that at least sixty days notice will be given prior to the opening of the quarter 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 Director of Housing.

OFFICIAL RECEIPTS

Official receipts for university 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 his initial notice of intention to withdraw is made to the Dean of Men or Dean of Women during the first ten calendar days following the first day of classes for the quarter, the registration fee will be refunded. 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 for university fees must accompany the request for refund.

Military Duty. A student called up for active duty or induction into the Armed Forces prior to the 27th regular class day of the quarter will be given a refund of all fees except 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 at the university for classes, all fees will be refunded if notice is given in writing to the Assistant Dean, Registration and Records, 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. 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 only 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

There will be no refund of room rent except upon cancellation of the residence hall contract, in accordance with the terms thereof, because of withdrawal from the university for one of the following reasons and under the conditions as stated: (1) action by the university for academic reasons, including graduation; (2) health reasons as certified by the Director of Health Service; (3) emergency reasons as validated in writing by the Dean of Men or the Dean of Women, including call for active duty in or induction into the Armed Forces.

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, and health insurance fee. They must also pay fees and charges for supplies and materials assessed in certain courses. (Holders of monetary scholarships administered by the Illinois State Scholarship Commission are exempt from payment of the registration fee and service fee. They, too, are obliged to pay fees assessed for certain courses and any charges for supplies and materials.)

The holders of these scholarships must meet the admissions requirements of the university. The scholarship is forfeited if the holder is not enrolled within five days after the opening of the school term or if he withdraws from the university.

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.

Holders of these scholarships 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 duty. Application for the leave of absence must be made to the Director of Financial Aids.

Teacher Education Scholarships. In order to be eligible for consideration for this scholarship a student must rank in the upper one-half of his graduating class and signify his intention to prepare to teach in the public schools of Illinois. The high school principal certifies to the County Superintendent of Schools, each year before July 1, the name and address of each student entitled to receive this scholarship. The County Superintendent then certifies to the Superintendent of Public Instruction all the names and addresses of students submitted by the high school principals. The scholarship is issued by the Superintendent of Public Instruction.

A high school with an enrollment of fewer than 500 students may award five scholarships; a high school with 500 to 1000 students may award seven scholarships; a high school with more than 1000 students may award nine scholarships.

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 County Superintendent of Schools to students who rank high in their G.E.D. qualifying test for a high school diploma; Special Education, issued by the County Superintendent of Schools to students enrolling or enrolled in a Special Education curriculum; Adult Education, initiated through the County Superintendent of Schools 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.

These scholarships are forfeited by an undergraduate who transfers out of a curriculum which leads to a Bachelor of Science in Education degree.

Military Scholarship. Any person who served in the armed forces of the United States during World War I or any time after September 16, 1940, who at the time of entering such service was a resident of Illinois and has been honorably discharged from such service, may be awarded a scholarship. Application should be made by filing a photostatic copy of the discharge or separation papers with the Director of Veterans' Services. This scholarship cannot be used when a veteran draws federal subsistence.

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.

First-Year Illinois State Scholarship Commission. 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. Each scholarship is renewable by the Commission annually without further competitive examination for a total of three academic years or until such earlier time as the student receives a degree normally obtained in four academic years. For more information, inquiries may be directed to: Illinois State Scholarship Commission, 730 Waukegan Road, Deerfield, Illinois.

Upperclass Illinois State Scholarship Commission. A student who has satisfactorily completed at least one, but not more than three, academic years of work and who was enrolled at Eastern the previous spring or summer quarter preceding September 1 of the year for which application is made and whose parents are residents of Illinois and who can establish financial need may receive consideration for this scholarship. Applications should be made to the Director of Financial Aids.

Illinois Congress of Parents and Teachers Scholarships

The Illinois Congress of Parents and Teachers gives 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 signify intention to teach. Application for the scholarship should be made to the Director of Financial Aids.

Awards

Achievement Fund Award. Made each year to one or more students of sophomore rank or higher who have academic records of B or better and can demonstrate financial need. Selection is made by the Financial Grants Committee from nominees submitted by the heads of the various academic departments or chief administrative officers of the university.

Alexander Briggs Memorial Award. Established by Miss Margaret Briggs in memory of her father, Alexander Briggs, the contractor who completed the Main Building of the university. 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.

Charleston Achievement Award. A scholarship of $150 made available annually by the Kiwanis and Rotary Clubs of the city. In order to qualify for the award, a student must be a graduate of Charleston High School, be classified as a junior, have a cumulative grade point average of 3.0 or better, have a record of better than average participation in activities, have leadership qualities, and an intention to graduate from Eastern.

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, 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.

General Scholarship Fund (Athletics). Established by the Alumni Association to provide revenue for financial grants-in-aid to athletes. The grant-in-aid selections are made through the Financial Grants Committee and meet all rules and regulations of the university, the athletic conference in which Eastern participates, and the national athletic associations.

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 Alumni Association of the University in memory of Livingston C. Lord, President of the College, 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 graduating at either the spring or summer commencement of the calendar year following the year in which the award is announced. The student's character, scholarship, and skill in teaching must promise service of distinction in the field of education.

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.

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. Each year the award is made to an art major or minor who has completed at least eighty quarter hours of course credit.

William Craig Simmons Memorial Award. Established by Mrs. W. C. Simmons, Charleston, in memory of her husband. 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.

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.

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.

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 a year of termination of enrollment. Interest then begins at three per cent. Students should contact the office of Financial Aids for application forms.

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.

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 of Women.

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, upon the death of his widow, 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

Public Laws 634, 815. Veterans with thirty per cent or more disability are eligible for training under Public Law 815. War orphans may receive training under Public Law 634.

The Veterans Act of 1966 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, 1965. Benefits will be for a period equivalent to active duty up to a limit of 36 months. Minimum monthly benefits are $100 for a full-time student.

Applications are processed by the Director of Veterans' Services.

Federal Grants

Beginning in September, 1966, Eastern will have federal grants available for students who qualify to participate under the provisions of the Higher Education Act of 1965. Availability of funds will dictate the number of students assisted by these grants.

Illinois Orphans Education Act

The Illinois Educational Benefits Act provides financial aid for children of certain deceased veterans. Qualified orphans may receive up to $150 with which to defray expenses. Application blanks and

additional information may be obtained from the Department of Registration and Education, Springfield, Illinois.

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 in the Counseling Center or in the local office of the Division of Vocational Rehabilitation serving the area or the student's home.

Student Employment

See Section II.

IV. Admission, Registration and Advisement

ADMISSION AND READMISSION

Policies

*First-Time-in-College Students.** In order to permit the university to make full utilization of its staff and facilities and at the same time avoid the risk of overcrowding classrooms and housing, the following priorities will be observed for fall quarter, 1966, applications:

Until April 1, 1967, the university will give priority in considering applications for students who ranked in the upper 40% of their high school graduating classes. All Teacher Education Scholarship holders ranking in the upper 50% of their high school graduating class will be given priority.

After April 1, 1967, the university will consider applications from additional students who ranked in the upper 50% of their high school graduating classes, if enrollment limits have not been reached.

After May 1, 1967, the university may accept applications from any students who ranked in the upper 60% of their high school graduating classes, provided such action is justified by the number of application cancellations.

For winter quarter, applications from students in the top 50% of their high school classes will be given top priority, with applications from the next 10% to be considered only if there is available space.

For spring quarter, applications from students in the top 60% will be considered insofar as space is available.

For summer quarter, applications from all qualified high school graduates will be considered regardless of rank in class, except that students ranking in the lowest one-third will be admitted on final probation only. (Lowest one-third students who enter on final probation in the summer quarter must complete satisfactorily twelve quarter hours of work in order to be eligible to enroll the following fall quarter.)

Persons who have been out of school one year or more and who were in the lowest one-third of their class may be admitted on final probation in any quarter.

Individuals with high school diplomas granted as a result of a General Educational Development Test are admitted in good standing in any quarter.

Out-of-State Freshman Students. Out-of-state freshman students must meet the same admissions requirements as Illinois high school

*Approved by the Board of Governors, October 26, 1964.

students, except that only those out-of-state students who rank in the upper two-thirds of their high school graduating classes will be considered for admission.

Transfer Students. Transfer students are admitted without condition if documents supplied indicate that students were in good standing in the institution or institutions previously attended and would have been in good standing according to regulations which govern students of Eastern Illinois University. Transfer students who meet these requirements may be admitted during any quarter.

Applicants whose records do not meet the standards cited above will be considered by the Committee on Admissions for any quarter but the fall quarter, except that applications for spring quarter will not be considered from students who were dropped at the end of the previous semester at another institution.

Foreign Students. All students from areas other than the United States may be admitted by committee action only.

Former Students in Good Standing. Former students, undergraduate or graduate, who are in good standing and who return to the university after a lapse of one or more quarters must apply for readmission at least ten calendar days prior to the official registration day of the quarter in which they intend to enroll.

Former Students Dropped for Poor Scholarship. Former undergraduate students dropped for poor scholarship must apply for readmission to the Committee on Admissions.

Special Students. Residents of Illinois who are not high school graduates but who are at least twenty-one years old may be admitted as special students. They may be admitted to take such undergraduate courses as they may be qualified to study, but they may not be considered candidates for a degree or diploma. These persons may become candidates for a degree by passing the General Educational 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.

Graduate Students. See Section IX. Graduate Study.

Procedures for Applying for Admission

An application blank may be obtained by writing to the Admissions Office. The blank contains a section to be filled out by the applicant and a section to be filled out by the high school from which the applicant was graduated. The principal of the high school will forward the application to the Admissions Office.

To insure consideration for admission for any quarter, the application blank, personal information blank, and the physical examination blank must be filed with the Admissions Office.

A fifteen dollar non-refundable application fee must accompany each application for admission.

Students who rank in the lowest one-third of their high school class will conform to special instructions obtained from the Admissions Office.

Each freshman student applying for admission will be required to furnish scores from the test battery administered by the American College Testing Program (ACT).

Transfer students must file an application for admission and must request the institution or institutions previously attended to forward transcripts that include all courses attempted and completed to the Admissions Office. The request for a transcript should include a request to transmit scores on entrance examination tests. (For acceptance of credit by transfer, see Section V.)

In addition, prior to consideration, a transfer student not in good standing 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 on Graduate Study.

An Official Permit to Enroll is mailed after an application has been processed sufficiently to enable the university to determine that the student is eligible for admission. The permit becomes invalid if all required materials, including proof of housing, are not filed by the specified date.

Housing applications must be sent to the Director of 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.

Procedures for Applying for Readmission

Former students, undergraduate or graduate, who are *in good standing* and who return to the university after a lapse of one or more quarters must make application for readmission through the Office of Registration and Records at least ten calendar days prior to the official registration day of the quarter in which they intend to enroll. Students enrolled during the spring quarter and not enrolled in the summer quarter need not apply for readmission for the ensuing fall.

Former undergraduate students dropped for poor scholarship from Eastern or some other university subsequent to their last enrollment at Eastern must apply for readmission to the Committee on Admissions. Petition forms may be obtained from the Dean of Men or Dean of Women. Ordinarily, a period of two quarters must elapse before a petition will be considered.

Cut-Off Dates for Completed Applications

All applications for admission must be filed with 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. All applications for readmission of former students, graduate or undergraduate, in good standing must be filed with the Office of Registration and Records prior to the cut-off date specified and all appli-

cations for readmission of former students dropped for poor scholarship must be filed with the Committee on Admissions and all requirements met by the cut-off date specified.

Fall Quarter, 1966.....Friday, August 26, 1966
Winter Quarter, 1966-67..Friday, November 18, 1966
Spring Quarter, 1967.....Friday, February 24, 1967
Summer Quarter, 1967.....Thursday, May 26, 1967

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

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 Preferred Schedule of classes for his 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 card for any class is subject to the assigned capacity of the class. The schedule for the reservation of cards 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 registration will forfeit the space in class which has been reserved for them.

It is important that changes in majors and advisers be made before preregistration or registration.

All students who have not preregistered 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 will receive instructions for registration in writing, after they have applied for readmission.

ACADEMIC ADVISEMENT

New Students

Each new student is assigned to an adviser who assists him in the preparation of his academic program. During the orientation days the adviser and the student together plan his courses for the entire year—a procedure known as preregistration. This plan is subject to modification later upon recommendation of the adviser 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 adviser will plan courses that are consistent with the university requirements.

Former Students

After application for readmission has been made, assignment of an adviser will be made by the Dean of Student Academic Services, through the Registration and Advisement Office.

Students Changing a Major

Students who wish to change majors should apply in the Registration and Advisement Office after consultation with their adviser. It is important that changes in majors and advisers be made before preregistration or registration.

NEW STUDENT ORIENTATION

Prior to registration, activities are scheduled for acquainting new students with the university. All undergraduates enrolling at Eastern 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

The unit of measure is the quarter hour, representing one hour a week for one quarter. It is equivalent to two-thirds of a semester hour.

A regular academic year's work is equivalent to 48 quarter hours. A regular academic year's work in one subject is equivalent to 12 quarter hours. The normal load in one quarter is 16 quarter hours.

Seniors enrolled in freshman courses are allowed two-thirds credit for such courses, except that freshman courses in foreign languages may be taken by seniors for full credit.

A statement of the amount of credit is included in the description of each course.

Credit earned in dramatics, glee club, choir, chorus, orchestra, or band is in excess of the total required for graduation except for those whose major or minor is music. Such students receive credit toward graduation under the title "Ensemble." (Students in elementary education may earn four quarter hours in ensemble credit.)

Acceptance of Credit for Other Work

Credit for Courses in Other Colleges. Advanced standing may be granted for courses satisfactorily completed in other recognized colleges. Credits may be accepted in transfer only in those courses in which the grade is C or higher. Certain courses may be waived if the grade at the previous institution is below C but passing. Students who transfer to the university must meet all requirements listed under "Graduation Requirements."

Credit for Courses Taken in Foreign Universities. Eastern Illinois University recognizes that some students may wish to spend their junior year in 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 twelve 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 192 quarter hours of credit required

for graduation nor do they reduce the requirements pertaining to majors and minors.

Credit for Junior College Courses. A student may transfer credit in courses passed with a grade of C or higher in accredited junior colleges, subject to the limitation that the last ninety-six quarter hours of credit toward a bachelor's degree must be earned in this or other degree-granting colleges. Courses taken in a junior college may be substituted for required courses of similar content as recommended by proper officials of the university. Junior college courses (and courses numbered on the freshman or sophomore level in degree-granting colleges) may not be used to reduce the minimum requirement of advanced courses even though their content is similar to that of courses numbered 300 or higher in this university. Students who transfer to the university must meet all requirements listed under "Graduation Requirements."

Credit for Military Service. Former members of the armed services who completed basic training are allowed four quarter hours credit in Health Education 120 on application and are exempted from required physical education courses. This does not apply to those having less than one year of full-time active duty service. An exception to this rule also obtains for students taking a major in physical education. Certain experiences in military service may be submitted for evaluation for advanced standing. The recommendations contained in the Handbook of 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 here is subject to permission granted by the Dean of Student Academic Services 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 Dean of Student Academic Services 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 Dean of Student Academic Services.

Credit for College-Level General Educational Development Tests. No credit 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 regulation:

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 Vice President for Instruction before the examination may be taken. The applicant should present evidence of independent study 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 used to remove grades of F or to raise grades.
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. Permission shall not be granted for examinations in shop, studio, or laboratory courses in which the actual laboratory experience is an important factor in determining the course grade. An exception can be made when the course work has been done in a non-accredited learning situation.

9. Proficiency examinations may not be given for credit in required physical education or applied music.
10. 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, including nominal credit courses:

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 take graduate courses.

Unclassified students are those who have completed a bachelor's degree but have not been admitted to take graduate courses.

ACADEMIC STANDING

Grades

The grades given in courses are as follows:

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

The grade of E may be given when because of illness or some other important reason the student's normal progress in a course has been delayed. The student shall have an instructor-approved plan for completion of work no later than the end of the next quarter that the course is offered and in which he is in residence. If the plan is carried out, the grade earned by the student replaces the grade of E; otherwise the grade of E remains on the student's record. The time restriction does not apply to the formal graduate papers required for the master's degree.

Grade-Point Average*

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

Grade-Point Deficit*

If the grade-point average is less than 2.0, 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 2.0.)

Good Standing

A student who has attended this university or other colleges, full-time or part-time, less than one year is considered in good standing unless he has a grade-point deficit greater than four.

A student who has attended this university or other colleges, full-time or part-time, one year is considered in good standing if his grade-point average is 2.00 or higher.

For the purposes of this section, three terms at this university, either summer terms or quarters, shall be interpreted as one year; one semester, summer term, or quarter in another college shall be interpreted as one quarter; two semesters in another college shall be interpreted as one year.

Any quarter in which a student registers in the university will be considered as a quarter attended. In case a student withdraws during a quarter for reasons beyond his control, the Committee on Admissions may, upon petition of the student at the time of withdrawal, authorize that the quarter not be counted as a quarter attended.

Probation

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

*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:

Grades	Quarter Hours	Grade Points	Computation
A	2	8	G.P.A. = 29 divided by
B	4	12	15 = 1.93
C	4	8	
D	1	1	G.P.D. = 2x15 minus 29
F	4	0	= 1.
	15	29	

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 exclusion, is placed on final probation. The rules for defining a quarter attended shall be the same as those defined in the section entitled "Good Standing."

Exclusion (Dropped)

A student is dropped for low scholarship (1) if at the close of a quarter of final probation he has not attained good standing (2) if at any time subsequent to a quarter of final probation his record falls below that required for good standing, or (3) if at any time his record shows a cumulative grade-point deficit greater than twelve. The rules for defining a quarter attended shall be the same as those defined in the section entitled "Good Standing."

Reinstatement

A student who has been dropped for low scholarship may be readmitted only by action of the Committee on Admissions. Ordinarily a period of two quarters must elapse before a petition will be considered, although the student has the right of petition at any time. Petition forms may be obtained from the Dean of Men or the Dean of Women.

If a student who has been dropped with a deficit *greater than twelve* is readmitted by the Committee on Admissions *after at least one calendar year has elapsed,* his previous record is evaluated as if he were transferring from another institution: the amount of credit toward graduation is limited to the total represented by the courses previously passed with grade of C or higher and subsequent computations of grade-point averages are based on work done after readmission. Such a student may be readmitted only on final probation. A given individual may have no more than one opportunity for readmission on these terms.

If a student who has been dropped with a deficit not greater than twelve is readmitted by the Committee on Admissions, or if a student with a deficit greater than twelve is readmitted before at least one year has elapsed, he may be given by the committee up to three quarters to attain good standing. His privilege of attending is cancelled, however, if at the end of any of the quarters so specified he has not either attained good standing or made an average gain of four points per quarter.

Honors

Graduation honors for baccalaureate degrees are computed on the basis of the scholarship record at the end of the winter quarter of the year of graduation or at the end of the spring quarter in case of graduation in the August commencement. To be eligible for graduation honors a student must have been in residence for two academic years or the equivalent in summer terms.

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

Graduation honors are noted on the diploma and announced at commencement.

Quarter honors are recommended on the same basis as graduation honors. To be eligible for honors in any quarter, the student must have carried at least fourteen quarter hours of courses exclusive of service courses in physical education and nominal credit in music organizations.

Scholarship Requirements for Graduation

See: Graduation Requirements.

SCHOLASTIC LOAD

Undergraduate Student

Normal Load. A normal load of work for an undergraduate student in any of the three quarters of the school year or in the summer quarter is sixteen quarter hours of regular academic courses except when the curriculum calls for a different load.

Overloads. Subject to exceptions set forth below, an undergraduate student may register for as many as *twenty quarter hours* if (1) his cumulative grade point average is at least 3.0, or (2) his cumulative grade point average for the last three quarters immediately past is at least 3.0. A student may register for *eighteen quarter hours* if his cumulative grade point average is at least 2.75.

No student may register for additional work during (1) his first quarter of residence in the university (2) a quarter in which he is taking four quarter hours or more of student teaching (3) a ten-week summer quarter.

Any person *majoring in music* who is in good standing may register for eighteen quarter hours, including two quarter hours in applied music, except during the times specified above. Ensemble credit is not counted in computing overloads for music students except that no student may earn more than sixty quarter hours including ensemble credit in three consecutive quarters regardless of cumulative average. He may carry one hour overload during student teaching if he must do his recital when doing student teaching and if his grade-point average makes him eligible.

A student *majoring in speech correction,* may carry eighteen hours when enrolled for advanced clinical practice.

A student *majoring in women's physical education* may carry two service courses in addition to the normal sixteen-hour load in any quarter.

Graduate Student

A graduate student is restricted to sixteen quarter hours during a quarter and twelve quarter hours during the summer term.

ATTENDANCE AT CLASSES

Students are expected to attend all classes for which they are registered unless prevented by illness or some other urgent reason.

A student who is absent for serious illness or because of death or illness in the immediate family is expected to notify the Dean of Men or Dean of Women the first day of his absence, if possible, so that his teachers may in turn be notified.

When a student knows in advance that he will be absent, it is his duty to notify his instructor. When he does not know of it in advance, he has the obligation to explain his absence on returning.

A student who is absent immediately before or immediately after a vacation period is not accorded the privilege of making up work missed, unless it is definitely established through the University Health Service and the Dean of Men or Dean of Women that the student has been too ill to attend or that there has been a death or serious illness in the immediate family.

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, Dean of Men, Dean of Women, or the Dean of Student Academic Services upon request.

Instructors are expected to report to the Dean of Men or Dean of Women the name and attendance record of any student whose absences have become a matter of concern. A student whose record has been so reported may be denied permission by an instructor to re-enter class until he presents a statement from the Dean of Men or Dean of Women. In the event that the student has missed classes for reasons acceptable to the Dean of Men or Dean of Women, he is entitled to a reasonable amount of help from the instructor in making up work missed. In the event that the reason for excessive absence is not acceptable to the Dean of Men or Dean of Women, the student may be required to withdraw from the course. In aggravated cases of failure to attend classes he may be dropped from the university by action of the Council of Administrative Officers on recommendation of the Dean of Student Personnel Services.

WITHDRAWAL

From a Course

A student may drop a course within the first thirty-four school days following registration day upon the recommendation of his adviser and the approval of the Dean of Student Academic Services. Drop slips may be obtained from the Registration Office.

No student may drop a course after the thirty-fourth school day following registration day unless illness, certified by the University Physician, or extended absence from the campus, certified by the Dean

of Men or Dean of Women, has caused the student to drop behind to the point where his load must be lightened.

For grades upon withdrawal, consult bottom of this page.

From the University

A student who wishes to withdraw from the university before the end of a quarter or summer term must report to the Dean of Men or Dean of Women to obtain a withdrawal form. Completion of this form will certify that all obligations, including the return of textbooks and library books, the return of departmental equipment loaned to the student, the return of the identification card, etc., have been met. When completed, the form must be turned in to the Registration Office.

If a student withdraws from the university and his initial notice of intention to withdraw is made to the Dean or Men or Dean of Women during the first ten calendar days following the first day of 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 Dean of Men or Dean of Women declaring intention to withdraw and postmarked within the stated period is deemed equivalent to the initial notice. If the tenth day falls on Sunday or within a stated vacation period, the next school day is considered as the tenth day.

No student may initiate a withdrawal from the university within the last three school days prior to the date of the first regularly scheduled final quarterly examination.

Policies covering the withdrawal of students from school because of a call to active military duty have been developed by the Council on Academic Affairs.

Recording of Grades for Withdrawals

If a student drops a course or leaves the university on or after the tenth school day of the quarter, he will be given WP in any course in which he is doing passing work; he will be given WF if he is doing failing work. The grade of WF must be recorded if prior to the date that the withdrawal was formally initiated by the student, the number of "unjustified" absences has been great enough so that the student cannot be considered as having done the work of the course to date.

When illness or other medical reasons, certified by the University Physician, require a student to withdraw from a course or from the university, the grade will be WP or WF depending on whether the student was passing or failing at the time of the onset of the illness.

When a first-quarter freshman leaves school within the first twenty-five days of classes, grades of WP will be recorded in all courses.

A student who is carrying an overload may reduce his schedule to a normal load at any time during the first thirty-four calendar

days of the quarter and receive the grade of WP in the course dropped.

If a student discontinues attendance in all classes without withdrawing officially, grades of F are recorded in all courses.

The grade of WF carries the same grade-point implications as the grade of F.

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 adviser will attempt to help the student make wise decisions the ultimate responsibility for meeting the requirements for graduation rests with the student.

Course Requirements for the Baccalaureate Degrees

The official course requirements for the baccalaureate degrees are given in Sections VI and VII.

Total Credits Required

The minimum credit for a baccalaureate degree is 192 quarter hours exclusive of service courses in physical education and any other nominal credit courses. Nominal credit is defined as credit which may apply only in excess of the minimum requirements.

Residence

At least 48 quarter hours must be earned in residence during the junior and senior years. A total of at least 64 quarter hours must be completed in residence at this institution.

Special Examinations

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 be passed by all candidates 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, 112 and who apply to the Records Office.

English Proficiency

Proficiency in English must be demonstrated. See the statement in the English Department course descriptions, Section X.

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

An average of 2.0, with not more than forty-eight quarter hours of grades below C, is required for graduation. The grades in the major must average 2.0 or higher.

Credit for Courses in Education

Courses in education and methods of teaching are accepted toward only the Bachelor of Science in Education degree. Enrollment in these courses is allowed only to students who have been accepted as teacher education candidates.

Application for Graduation

Degrees are conferred at the close of the fall, winter, spring, and summer quarters to students who complete all requirements for graduation. Students completing their work at the close of the fall or winter quarters will receive their diplomas and may elect to participate in the spring commencement exercises. Students completing graduation requirements in the spring or summer are required to participate in the commencement exercises unless excused by the Vice President for Instruction. Students entitled to participate in commencement exercises are:

1. Those who graduate at the end of fall and winter quarters.
2. 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 spring or summer quarter.

Students apply for graduation upon completion of 128 quarter hours of course work. 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 Office of Registration and Records of any non-campus courses being taken which will complete the requirements for graduation. Applications for graduation may be obtained at the Office of Registration and Records. The application is completed by the student and is then validated by the Cashier when the graduation fee is paid.

Deadline dates for application for graduation:

Fall Quarter	September 6, 1966
Winter Quarter	November 29, 1966
Spring Quarter	March 9, 1967
Summer Quarter	June 19, 1967

The graduation fees are as follows: $10.00, bachelor's degree; $15.00, master's degree.

Certification (B.S. in Ed. Degree Only)

Candidates for the degree B.S. in Ed. 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, even for one who finishes his work in the fall or winter quarters, until the student meets all requirements of this section on Graduation Requirements.

Placement Office

Registration with the Placement Office is prerequisite to graduation with any degree.

Photograph

A photograph, size not larger than one and one-half inches by two and one-half inches, is required of each candidate for graduation for the files of the Records Office.

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 forms supplied by the Records Office.

The time for preparation and mailing of transcripts varies with the season of the year. During registration and quarter end there may be a delay of several days.

A fee of one dollar will be charged for each transcript issued after the first one and fifty cents will be charged for each extra copy of the transcript made at the same time.

AUDITING OF COURSES

Provisions for auditing courses may be made under certain circumstances.

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 and may not change their registration from "audit" to "credit" or from "credit" to "audit" after the first ten days of the quarter.

VI. 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, not the adviser, 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 adviser will assist him in making important decisions.

BACHELOR OF SCIENCE IN EDUCATION

The degree, Bachelor of Science in Education, is conferred upon successful completion of a minimum of 192 quarter hours, exclusive of nominal credit, in courses which satisfy three sets of requirements: General requirements, professional education requirements, and specialization. If courses in the specialization satisfy the definitions of the fields for the general requirements, they may be applied also in partial fulfillment of general requirements.

General Requirements

English Composition, freshman level (English 120, 121) ..... 8 quarter hours

English Composition, sophomore level (English 220) ..... 4 quarter hours

English 220 may be omitted by a student whose grades in English 120 and 121 average 3.0 or higher.

Speech (Speech 131) ..... 4 quarter hours

Health Education (Health Education 120) ..... 4 quarter hours

Natural Sciences ..... 16 quarter hours

The natural sciences are classified in two fields: biological sciences (botany, zoology, and general biology) and physical sciences (physics, chemistry, and physical science).

Twelve quarter hours of this requirement must be in one field, except that this provision does not apply to students in the School of Elementary and Junior High School Teaching where the general requirements are eight quarter hours in each field. (For students who entered prior to September 1, 1963, the total science requirement is twelve quarter hours in one field.)

The natural science requirement may be reduced by four quarter hours if the student presents one or more acceptable units[1] in a science in which laboratory work was required. The remaining twelve quarter hours must be taken in the field different from that in which the exemption is taken. (This paragraph applies only to students who entered Eastern after September 1, 1963.)

Social Studies ..... 20 quarter hours

The social studies are defined to include history, political science, economics, sociology-anthropology, and geography. At least twelve quarter hours must be taken in one of these subjects. At least four quarter hours must be in United States history.

This requirement may be reduced by four quarter hours for one acceptable unit in high school or by eight quarter hours for two or more acceptable units. In case exemptions are granted, the requirement of twelve quarter hours in a single subject is reduced to eight quarter hours. This does not alter the requirement that four quarter hours must be taken in a college course in United States history.

Humanities ..... 24 quarter hours

This area is defined to include three groups of subjects: Group A—Philosophy and Literature; Group B—Music and Art; Group C—Foreign Languages.

The normal requirement of twenty-four quarter hours must be met by taking twelve quarter hours in each of two of these groups. Where an approved course in literature in a foreign language is offered toward Group A it may not simultaneously satisfy a requirement under Group C.

If Group C is chosen, the twelve quarter-hour requirement will be considered as completely satisfied by two acceptable units in a single language. A student with less than two acceptable units will meet the total requirement when he has passed the third quarter college course or any more advanced course in that language.

Regardless of exemptions, a student must take a minimum of sixteen quarter hours of college work in the humanities.

Mathematics ..... 4 quarter hours

The mathematics requirement is satisfied by a mathematics course other than a course in methods of teaching mathematics.

Students may be exempt from this requirement if they passed any mathematics course in high school beyond two years of

[1] An acceptable unit is defined as two semesters of high school work in the same subject taken five periods per week with a B average by a student who ranked in the upper two-thirds of his high school class.
Exemptions do not establish college credit. They free the student for greater flexibility in planning his college courses by permitting more elective credit. Students who are not eligible for exemptions under the rules above may apply for examination in high school subjects in which they feel confident that they have adequate background.

college preparatory mathematics. Algebra, plane geometry, solid geometry, and trigonometry are considered college preparatory mathematics courses; courses of newer types now offered in certain high schools may be ruled by the Department of Mathematics to be college preparatory courses.

Physical Education (nominal credit) ..... (6 quarter hours)

Total (subject to possible exemptions) ..... 84 quarter hours
(nominal credit not included)

Professional Education Requirements

Admission to teacher education is prerequisite to admission to courses in professional education numbered 300 or higher, to departmental methods, and to teaching practicum.

Psychology 231 ..... 4 quarter hours

Professional education courses ..... 12 quarter hours
Education 445 is required in all curricula. Education 332 and 333 are prescribed for the curricula for high school and special area teachers. Professional education courses for elementary and junior high school teachers are included in the curriculum outlines.

Departmental methods courses ..... 0 to 8 quarter hours
See section on majors and minors.

Teaching Practicum (Education 441, 442, 443) ..... 12 quarter hours
Students are urged to add Education 444, making the total 16 quarter hours.

Total ..... 28 to 36 quarter hours

Specialization

The specialized curricula for high school teachers, special area teachers, junior high school teachers, and elementary school teachers are described in sections which follow. The curricula for high school teachers lead to the Illinois Standard High School Certificate. The curricula for special area teaching lead to the Standard Special Certificate. The curriculum for junior high school teaching leads to the Standard High School Certificate. The curriculum for elementary school teaching leads to the Standard Elementary Certificate.

The high school curricula require the completion of a departmental major and minor or an interdisciplinary major. The Special Certificate curricula do not require minors.

Admission to Teacher Education

Admission to the university does not of itself admit a student to teacher education.

Criteria for Admission. Admission to teacher education is determined by the Council on Teacher Education. This council will require for its consideration:

1. A formal application from the student (see below).
2. Grades which average 2.10 or higher.
3. Evidence of proficiency in English usage.
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 (excluding nominal credit courses), or failure by a transfer student who entered with 84 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 who does not gain admission to teacher education may not continue as a candidate for the degree, Bachelor of Science in Education.

Application for Admission. Application blanks for admission to teacher education may be obtained at the Office of the Dean of the Faculty for Professional Education. Policies governing admission to teacher education are as follows:

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.

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 120, 121, and 232, is deferred until after admission to teacher education.

Transfer and Extension Students.

Transfer students 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. Transfer students with junior or senior

standing may carry such courses on a tentative basis until they have satisfied the minimum residence requirement for eligibility to make application to teacher education.

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.

Late Application.

Students who have followed a program which leads to a degree other than Bachelor of Science in Education 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 degree, Bachelor of Science in Education. 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 441, 442, 443, 444)

OBJECTIVE

It is the objective of the teaching practicum to provide a comprehensive experience in harmony with the needs of the student, his ability, interest and initiative, his special talents, and the facilities of the school system and community.

REGULATIONS AND STANDARDS

1. Admission to teacher education is prerequisite to admission to teaching practicum.
2. Students in a high school curriculum must have completed Education 332, 333, Psychology 231, and any required departmental methods courses for the subjects to be assigned them.
3. Students in the curriculum for elementary teachers must have completed Education 324 and 328 and, in the case of the kindergarten option, Education 334. Students in the junior high school curriculum must have completed Education 311, 312, and Education 313 or 314, or equivalent courses approved by the Director of the School of Elementary and Junior High School Teaching.
4. An overall grade-point average of 2.10 is required for application for admission to teaching practicum. Students in high school curricula must also have an average of 2.10 in their teaching fields at the time of application.

5. The minimum requirements established by the Office of the Superintendent of Public Instruction for teaching a subject should have been completed.
6. Transfer students must have been in residence at Eastern Illinois University for at least one quarter or one summer term.
7. A physical examination must have been completed in the University Health Service at least one quarter prior to the teaching practicum assignment.
8. Students enrolled in either full-time or part-time off-campus teaching must assume the necessary transportation, room, and board expenses.
9. 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 school calendar.
10. 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.
11. Attendance is expected at a series of seminar meetings related to the teaching practicum held for prospective high school and special area teachers. Details are distributed through the Office of the Dean of the Faculty for Professional Education.

APPLICATION FOR ASSIGNMENT

Assignments for teaching practicum are made in the public schools in the area, in the public schools of the Chicago area in the case of some students in the elementary and junior high school curriculum, and in the campus laboratory school.

1. Applications for high school assignments are made to the Dean of the Faculty for Professional Education at least one quarter in advance of the quarter in which teaching is desired. Assignments are made by the coordinator and approved by the Dean of the Faculty for Professional Education. Students must have clearance with the Director of the School of Elementary and Junior High School Teaching for any assignment in Buzzard Laboratory School.
2. Applications for elementary and junior high school assignments are made to the Director of the School of Elementary and Junior High School Teaching at least one quarter in advance of the quarter in which teaching is desired. Assignments are made through the director's office.
3. Students should arrange for their teaching assignments before registering for other subjects. Teaching assignments take priority in the student's schedule.

4. The student's schedule must provide for teaching practicum either all day for one quarter or one-half day for two quarters.
5. A student engaged in teaching practicum is limited to a total load of sixteen quarter hours, except that music students may add a senior recital and speech correction students may do a limited amount of clinical practice. The number of hours of outside work permitted is restricted.

Curriculum for Elementary Teachers

This curriculum requires 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).

Two subject area concentrations must be chosen by the student.

REQUIRED COURSES

The following constitutes the list of requirements in this curriculum. The student and the adviser must cooperate in planning the sequence.

Art 140	4 qtr. hrs.
Biology 116, 117	8
Education 120, 121	2
Education 232, 324, 327, 328, 329, 445	24
Education 441, 442, 443	12
English 120, 121, 220	8-12
English 220 may be omitted by a student whose grades in English 120 and 121 average 3.0 or higher.	
American Literature (one course)	4
Geography 150	4
Health Education 120	4
History 233 or 234 or 235	4
History 244 or 245 or 246 or 247 or 248	4
Mathematics 122, 123	6
Music 120, 328	8
Physical Education, Women, 360	2
Physical Science 100 or Physics 130; Physical Science 101 or Chemistry 120 or Chemistry 150	8
Psychology 231	4
Speech 131	4
Subject Concentration, Area I	24
Subject Concentration, Area II	12
Courses to complete the general requirements for the degree, Bachelor of Science in Education, subject to provision for exemptions; the special requirements for the chosen option given below; and electives, if necessary, to complete 192 quarter hours.	
Physical Education service courses (nominal credit)	(6)

SPECIAL REQUIREMENTS OF OPTIONS

Early Childhood Education
Mathematics 320, Art 244 or Industrial Arts 224, English 322, Education 334.

Intermediate
Mathematics 321, Industrial Arts 225.

Comprehensive
Mathematics 320 or 321, or preferably both; Education 445.

SUBJECT AREAS OF CONCENTRATION

Art

Area I: Art 244; four quarter hours elected from Art 245, 309, 319, 465; sixteen quarter hours elective credit in art courses. Total, 24 quarter hours exclusive of Art 140.

Area II: Art 244; eight quarter hours selected from Art 245, 309, 319, 465. Total, 12 quarter hours exclusive of Art 140.

Art—Industrial Arts

Area I: Choose Option A, B, or C.

Option A. Art 244; eight quarter hours chosen from Art 245, 247, 309, 319, 465; Industrial Arts 224, 225; four quarter hours chosen from Industrial Arts 134, 231, 259, 452. Total, 24 quarter hours.

Option B. Art 244; twelve quarter hours chosen from Art 245, 247, 309, 319, 465; Industrial Arts 224 or 225; Industrial Arts 452. Total, 24 quarter hours.

Option C. Art 244; four quarter hours chosen from Art 245, 247, 309, 465; Industrial Arts 224, 225; eight quarter hours chosen from Industrial Arts 134, 231, 259. Total, 24 quarter hours.

Biological Science

Area I: Botany 218, 234, Zoology 338, 350, four quarter hours in botany, four quarter hours in zoology. Total, 24 quarter hours.

Area II: Botany 218, Zoology 338, four quarter hours in botany or zoology. Total, 12 quarter hours.

Note: Botany 120, 121, Zoology 120, 121, 122 may not be offered toward Area I or Area II.

English

Area I: English 126; 246 or 247; 471 or 472; twelve quarter hours elective credit in courses in English other than 120, 121, 220. Total, 24 quarter hours.

Area II: English 126; 246 or 247; 471 or 472. Total, 12 quarter hours.

Foreign Language

Area I: 24 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.

Geography

Area I: Geography 151 or 302; 300; 360 or 387; twelve quarter hours elected from 370, 451, 452, 453, 454, 455. Total, 24 quarter hours.

Area II: Geography 151 or 302; 300; 360 or 387. Total, 12 quarter hours.

History

Area I: Eight quarter hours selected from History 233, 234, 235; eight quarter hours from 244, 245, 246, 247, 248; eight quarter hours selected from history courses numbered 300 or above. Total, 24 quarter hours.

Area II: Four quarter hours from History 233, 234, 235; four quarter hours from 244, 245, 246, 247, 248; four quarter hours from history courses numbered 300 or above. Total, 12 quarter hours.

Industrial Arts

Area I: Industrial Arts 134, 140, 231, 259; eight quarter hours chosen from 224, 225, 452. Total, 24 quarter hours.

Area II: Four quarter hours selected from Industrial Arts 134, 140, 150, 231, 259; eight quarter hours from 224, 225, 452. Total, 12 quarter hours.

Library Science

Area I: Library Science 320, 430, 450, 460, 490; 330 or 332. Total, 24 quarter hours.

Area II: Twelve quarter hours chosen from Library 320, 330, 332, 460.

Mathematics

Area I: Mathematics 130, 131, 134, 227; eight quarter hours from courses in mathematics numbered above 200. Students exempted on basis of proficiency test from Mathematics 131 and/or 130 will substitute additional courses numbered above 200 to bring the total for Area I to 24 quarter hours.

Area II: Mathematics 130, 131, 134. Students exempted from Mathematics 131 and/or 130 will substitute courses numbered above 200 to bring the total for Area II to 12 quarter hours.

Music

Area I: Music 221, 222, 225; four quarter hours chosen from Music 320, 321, 322; eight quarter hours from 136, 137, 138, 146, 147, 148, 200, 201, 231, 320, 321, 322, 380; applied music, ensemble. Total, 24 quarter hours.

Area II: Music 221, 222, 225. Total, 12 quarter hours.

Physical Education

Area I: Physical Education (W) 361, 362, 363, 413; eight quarter hours from 131, 132, 356; Physical Education (M) 228, 351. Total, 24 quarter hours.

Area II: Physical Education (W) 361, 362, 363. Total, 12 quarter hours.

Physical Science

Area I: Physics 130, 131, 132; Chemistry 120, 121, 122 or 150, 151, 152. Total, 24 quarter hours.

Area II: Eight quarter hours in chemistry and four quarter hours in physics or eight quarter hours in physics and four quarter hours in chemistry. Total, 12 quarter hours.

Social Studies

The prescriptions for Social Studies total 44 quarter hours and 32 quarter hours respectively and include the general education requirement in social studies as given in the elementary curriculum.

Area I: History 233, 234, 235; eight quarter hours from 244, 245, 246, 247, 248; Geography 150, 300, 302; four quarter hours in political science; eight quarter hours in anthropology, sociology, and/or economics. Total, 44 quarter hours.

Area II: Eight quarter hours from History 233, 234, 235; eight quarter hours from 244, 245, 246, 247, 248; Geography 150, 300; four quarter hours from anthropology or sociology; four quarter hours from United States History, political science, or economics. Total, 32 quarter hours.

Speech

Area I: Speech 232; Theater Arts 132, 133, 333, 431; Speech Correction 260. Total, 24 quarter hours.

Area II: Speech 232 or Theater Arts 431; Theater Arts 132, 133. Total, 12 quarter hours.

Speech Correction

Area I: Theater Arts 132, 133; Speech Correction 260, 451, 452, 456. (Prerequisite of Speech Correction 455 waived.) Total, 24 quarter hours.

Area II: Theater Arts 132, 133; Speech Correction 260. Total, 12 quarter hours.

Curriculum for Junior High School Teachers

This curriculum is intended to prepare teachers for grades seven, eight, and nine of the public schools. The student must choose a major field of specialization and a minor field of specialization, or three minor fields of specialization.

REQUIRED COURSES

The following constitutes the list of requirements. The student and the adviser cooperate in planning the sequence.

Biology 116, 117	8 qtr. hrs.
Education 120, 121	2
Education 232, 311, 312, 445	16
Education 313 or 314	4
Education 441, 442, 443	12
English 120, 121, 220	8-12
English 220 may be omitted by a student whose grades in English 120 and 121 average 3.0 or higher.	
Geography 150	4
Health Education 120	4
History 233 or 234 or 235	4
History 244 or 245 or 246 or 247 or 248	4
Mathematics 125	4
Physical Science 100, 101	8
Psychology 231, 352	8
Speech 131	4
Major subject field (48 quarter hours) and a minor subject field (30-36 quarter hours), or three minor fields	90-108
Courses to complete the general requirements for the degree, Bachelor of Science in Education, subject to provision for exemptions, and elective courses, if necessary, to complete a minimum of 192 quarter hours.	
Physical Education service courses (nominal credit)	(6)

SUBJECT FIELD SPECIALIZATION

Art

Field II: 140, 244, 247, 309, 319, 465; select twelve quarter hours other than 245. Total, 36 quarter hours.

Biological Science

Field I: Biology 116, 117; Botany 218, 230, 234; four quarter hours elective in botany; Zoology 212, 336, 338, 350; eight quarter hours elected from botany or zoology. Total, 48 quarter hours.

Field II: Biology 116, 117; Botany 218, 234; four quarter hours elective in botany; Zoology 338, 350; four quarter hours elective in zoology; four quarter hours elective in botany or zoology. (Students may not elect Botany 120, 121, or Zoology 120, 121, 122). Total, 36 quarter hours.

English

Field I: 120, 121; 220 or four quarter hours elective; 250 or equivalent American literature course; Speech 131; English 126; 246 or 247; 251 or 252; 326 or 327; twelve quarter hours of English electives. Total, 48 quarter hours.

Field II: 120, 121; 220 or four quarter hours elective; 250 or equivalent American literature course; Speech 131; English 126; 246 or 247; 471 or 472; four quarter hours of English elective. Total, 36 quarter hours.

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: 130, 131, 132, 230, 231, 232, 333, 334, 335, 340; eight quarter hours French electives selected from 450, 451, 452. Total, 48 quarter hours.

Field II: 130, 131, 132, 230, 231, 232, 333, 334, 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: 130, 131, 132, 233, 234, 235, 340, 353, 354, 355; eight quarter hours selected from 453, 454, 455. Total, 48 quarter hours.

Field II: 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: 120; 121; 122; 220, 221, 222 or 310, 311, 312; 330, 331, 332, or 433, 434, 435; 340; eight quarter hours from 330, 331, 332, 433, 434, 435, 450, 451, 452. Total, 48 quarter hours.

Field II: 120; 121; 122; 220, 221, 222 or 310, 311, 312; 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: 140, 141, 142, 250, 251, 252, 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: 130, 131, 132, 230, 231, 232, 340, and twenty-four quarter hours in advanced courses. Total, 52 quarter hours.

Field II: 130; 131; 132; 230; 231; 232; 310, 311 or 456, 457; 340. Total, 36 quarter hours.

Geography

Field II: 140; 150; 142 or 300; 151 or 302; 360 or 387; sixteen quarter hours from 370, 451, 452, 453, 454, 455, 470. Total, 36 quarter hours.

History

Field II: 233, 234, 235, twelve quarter hours from 244, 245, 246, 247, 248; twelve quarter hours from courses numbered 300 or above. Total, 36 quarter hours.

Home Economics

Field II: 101, 210, 211, 231, 245, 303; 346 or 347; twelve quarter hours from 131, 230, 346, 347, 320, 420. Total, 36 quarter hours.

Industrial Arts

Field II: 134, 140, 150, 225, 231, 259, 341 (prerequisite waived), 452; four quarter hours from 135, 232, 260, 300, 352. Total, 36 quarter hours.

Library Science

Field II: 320; 330 or 332; 430; 450; 460; Education 487, 488, 490. Total, 32 quarter hours.

Mathematics

Field I: 122, 123, 130,[1] 131,[2] 134, 227, 235, 236, 470; fourteen quarter hours from courses numbered 200 or higher (Education 314 may be used as an elective). Total, 48 quarter hours.

[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 II: 122, 123, 130,[1] 131,[2] 134, 227, 235; four quarter hours from courses numbered 200 or higher. Total, 30 quarter hours.

Physical Education for Men

Field II: 120, 340, 452; four quarter hours from 203, 204, 205, 206, 207, 208; four quarter hours from 210, 211, 212, 213, 214, 215, 217, 240; eight quarter hours from 121, 244, 351, 461, Women's Physical Education 131, 132, 356; Health Education 227. Total, 32 quarter hours.

Physical Education for Women

Field II: 130; 131; 132 or 356; 233 or 234; 346; 353; 363; 413; four quarter hours from 235, 336, 362, 450, 228, 244, 351, Health Education 320, 227. Total, 36 quarter hours.

Physical Science

Students selecting physical science as a field of specialization must also select mathematics as a field of specialization.

Field I: Physics 130; 131; 132; Chemistry 120, 121, 122 or 150, 151, 152; twenty-four quarter hours from physics and/or chemistry courses. Total, 48 quarter hours.

Field II: Physics 130, 131, 132; Chemistry 120, 121, 122 or 150, 151, 152; twelve quarter hours from physics and/or chemistry courses. Total, 36 quarter hours.

Note: Physical Science 100 may be substituted for Physics 130. Physical Science 101 may be substituted for Chemistry 120 but not for Chemistry 150.

Social Studies

Field I: History 233, 234, 235; twelve quarter hours from History 244, 245, 246, 247, 248; 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 244, 245, 246, 247, 248; Geography 150, 300, 302. Total, 36 quarter hours.

Speech

Field II: English 120, 121; Speech 131, 232; Theatre Arts 132, 133, 445; Speech Correction 260; four quarter hours from Speech 330, 332, 352; Theater Arts 244, 257, 333, 357. Total, 52 quarter hours.

[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.

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 and as a speech correctionist.

REQUIRED COURSES

The following constitutes the list of requirements in this curriculum. The student and adviser will cooperate in planning the sequence.

Art 140	4 qtr. hrs.
Art 244 or Industrial Arts 224 or 225	4
Biology 116, 117	8
Education 120, 121	2
Education 232, 324, 327, 328, 329, 445	20
Education 441, 442, 443	12
English 120, 121, 220	12
English 220 may be omitted by a student whose grades in English 120 and 121 average 3.0 or higher	
Geography 150	4
Health Education 120	4
History 233 or 234 or 235	4
History 244 or 245 or 246 or 247 or 248	4
Mathematics 122, 123	6
Mathematics 320 or 321	4
Music 120, 328	8
Physical Education, Women, 360	2
Physical Science 100, 101	8
Psychology 231, 450, 451	12
Speech 131	4
Speech Correction 254, 260, 451, 452, 453, 455, 456, 457, 458	36
Theater Arts 132, 133	8
Zoology 225	4
Courses to complete the general requirements for the degree, Bachelor of Science in Education, subject to provision for exemptions, and elective courses, if necessary, to complete a minimum of 192 quarter hours.	
Physical Education service courses (nominal credit)	(6)

The addition of Psychology 360, 361, and Education 444 is recommended.

MAJORS AND MINORS FOR HIGH SCHOOL AND SPECIAL AREA TEACHERS

The major and minors, both departmental and interdepartmental, which may be submitted in fulfillment of the specialization for high school and special area teachers are outlined in this section.

A course in methods is included in the outline for each major unless work in methods of teaching is given in other required major courses. Work in methods is included in several of the minors, also. If not included in the minor, the course in methods must be added unless the major and minor have been ruled similar. The adviser should be consulted on this point; rulings concerning similar and dissimilar majors and minors are made by the Vice President for Instruction.

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.

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 (See Note)	36
Total	88 qtr. hrs.

Note: 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, print making
Major Area II:	Ceramics, jewelry, sculpture, weaving
Minor Areas:	Art education, art history, commercial design, the alternate major area

Study in two phases of the major area and one phase of the minor area is required.

Major: (Standard High School Certificate)

Art 100, 101, 110, 111, 160, 205, 225, 260, 261, 262, 270, 340	48 qtr. hrs.
Elective courses in art	12
Total	60 qtr. hrs.

Minor:

Art 100 or 101; 205; 110 or 111 or 140; 225 or 270 or 334; 244 or 340; one course chosen from Art 160, 260, 261, 262, 360, 361, 362; eight quarter hours elective credit in art	32 qtr. hrs.

Biological Sciences

Minor: Plan A

Biology 126, 127, 128; or Biology 116, 117, and an elective course in botany or zoology	12 qtr. hrs.
Botany 218, 234	8
Zoology 343, 350	8
Electives: Four quarter hours in botany and four quarter hours in zoology (See Note)	8
Total	36 qtr. hrs.

Note: See course descriptions of Biology 126, 127, 128 for restrictions in selection of elective courses.

Minor: Plan B

Botany 120, 121, 222; 234 or 335	16 qtr. hrs.
Zoology 110, 111; or 120, 121	8
Zoology 343; 348 or 350	8
Elective in botany or zoology	4
Total	36 qtr. hrs.

Note: For other minors in biological sciences, see botany minor and zoology minor.

Botany

Major: (Standard High School Certificate)

Botany 120, 121, 222, 230, 231, 340	24 qtr. hrs.
Elective courses in botany	28
Zoology 110, 111, 212	12
Elective courses in zoology	16
Chemistry 120, 121, 122; or Chemistry 150, 151, 152	12
Geography 140 or 141	4
Total, including correlative courses and a minor in zoology	96 qtr. hrs.

Minor:

Botany 120, 121, 222, 335	16 qtr. hrs.
Elective courses in botany	8
Zoology 110, 111, 212; or Zoology 120, 121, 122	12
Total	36 qtr. hrs.

Business

Major: (Standard High School Certificate)

The student may choose one of three options: Accounting and Secretarial; Accounting; Secretarial.

Accounting and Secretarial Option:

Business 141, 142, 212	12 qtr. hrs.
Two courses from Business 111, 112, 210, 211	8
Three courses from Business 123, 124, 125, 223, 224, 225	12
Business 230, 231, 232, 346, 347	20
Two courses chosen from 470, 471, 472, 473	8
Elective course in business	4
Economics 254, 255, 256	12
Total, including correlative courses	76 qtr. hrs.

Accounting Option:

Business 141, 142, 212	12 qtr. hrs.
Two courses from Business 111, 112, 210, 211	8
Business 230, 231, 232	12
Three courses from Business 354, 355, 356, 360, 363, 461, 462	12
Business 346, 347	8
Business 470; 471 or 472 or 473	8
One elective course in business	4
Economics 254, 255, 256	12
Total, including correlative courses	76 qtr. hrs.

Secretarial Option:

Business 140, 141, 142, 210, 211, 212, 223, 224, 225, 346, 347, 472, 473	52 qtr. hrs.
Elective courses in business	12
Economics 254, 255, 256	12
Total, including correlative courses	76 qtr. hrs.

Minors: (Four options)

Secretarial Option:

Three courses from Business 110, 111, 112, 210, 211	12 qtr. hrs.
Three courses from Business 123, 124, 125, 223, 224, 225	12
Business 212	4
Business 472 or 473	4
Total	32 qtr. hrs.

Typewriting and Bookkeeping Option:

Three courses from Business 110, 111, 112, 210, 211	12 qtr. hrs.
Business 230, 231, 232, 212	16
Business 470 or 473	4
Total	32 qtr. hrs.

Bookkeeping, General Business, and Business Law Option:

Business 230, 231, 232, 141, 142, 346, 347 ..... 28 qtr. hrs.
Business 470 or 471 4

Total ..... 32 qtr. hrs.

General Business, Salesmanship, Retailing, and Business Law Option:

Business 140, 247, 248, 249, 250, 346, 347, 471 ..... 32 qtr. hrs.

Chemistry

Major: (Standard High School Certificate)

Chemistry 150, 151, 152; or 120, 121, 122 ..... 12 qtr. hrs.
Chemistry 330, 343, 344, 345, 361, 491, 492, 493; 470 or 494 36
Physical Science 340 4
Chemistry 342 (nominal credit) ..... (1)
Physics 130, 131, 132 12
Mathematics 134, 235, 236, 345 16

Total, including correlative courses ..... 80 + (1) qtr. hrs.

Minor:

Chemistry 120, 121, 122; or 150, 151, 152 ..... 12 qtr. hrs.
Chemistry 234, 343, 344 12
Elective courses in chemistry and/or physics 12

Total ..... 36 qtr. hrs.

English

Major: (Standard High School Certificate)

English 126, 226, 245, 246, 247, 250, 251; 326 or 327; 340 ..... 36 qtr. hrs.
Elective courses in English as approved by the department 20
History 343, 344 8
Foreign language (a single language) 24

Total, including correlative courses ..... 88 qtr. hrs.

Minor:

English 120, 121, 245, 246, 247; 326 or 327; eight quarter hours in English or American literature; Speech 131 ..... 36 qtr. hrs.

Foreign Language

FRENCH

Major: (Standard High School Certificate)

French 330, 331, 332, 340 ..... 16 qtr. hrs.
Nine courses selected from French 130, 131, 132, 230, 231, 232, 333, 334, 335, 410, 411, 412, 450, 451, 452, 510, 511, 512 36
History 235, 247 8

Total, including correlative courses ..... 60 qtr. hrs.

Note: Students with a background of high school units in French do not receive credit for beginning courses in university French. See page 184.

At least twelve quarter hours in courses numbered 400 and above must be included.

GERMAN

Major: (Standard High School Certificate)

German 340, 361; 354 or 410 ..... 12 qtr. hrs.
Ten courses selected from German 130, 131, 132, 233, 234, 235, 353, 355, 362, 363, 411, 412, 453, 454, 455, 510, 511, 512 40
History 235, 248 8

Total, including correlative courses ..... 60 qtr. hrs.

Note: Students with a background of high school units in German do not receive credit for beginning courses in university German. See page 184.

At least twelve quarter hours in courses numbered 400 and above must be included.

LATIN

Major: (Standard High School Certificate)

Latin 340 ..... 4 qtr. hrs.
Twelve courses selected from Latin 120, 121, 122, 220, 221, 222, 310, 311, 312, 330, 331, 332, 433, 434, 435, 450, 451, 452, 510, 511, 512 48
History 233, 244 8

Total, including correlative courses ..... 60 qtr. hrs.

Note: Students with a background of high school units in Latin do not receive credit for beginning courses in university Latin. See page 184.

At least twelve quarter hours in courses numbered 400 and above must be included.

SPANISH

Major: (Standard High School Certificate)

Spanish 340; 330 or 412; 331 or 410 ..... 12 qtr. hrs.

Ten courses selected from Spanish 130, 131, 132, 230, 231, 232, 321, 322, 323, 332, 411, 456, 457, 458, 510, 511, 512 40
History 233, 234 8

Total, including correlative courses ..... 60 qtr. hrs.

Note: Students with a background of high school units in Spanish do not receive credit for beginning courses in university Spanish. See page 184.

At least twelve quarter hours in courses numbered 400 and above must be included.

Minor:

A minor may be taken in French, German, Latin, Russian, or Spanish. Each minor must include twenty-four quarter hours as follows:

French: 24 quarter hours beyond French 131.
German: 24 quarter hours beyond German 131.
Latin: 24 quarter hours beyond Latin 121.
Russian: 24 quarter hours beyond Russian 141.
Spanish: 24 quarter hours beyond Spanish 131.

Geography

Major: (Standard High School Certificate)

Geography 150, 151; 141 or 142 or 140; 340; thirty-six quarter hours in geography courses approved by the head of the Department of Geography ..... 52 qtr. hrs.
Economics 254, 255 8

Total ..... 60 qtr. hrs.

Minor:

Geography 140, 141, 142, 151 and eight quarter hours in geography courses approved by the department; or Geography 300, 301, 302, and twelve quarter hours approved by the department ..... 24 qtr. hrs.
Three courses in history, economics, sociology, or political science 12

Total ..... 36 qtr. hrs.

Health Education

Minor:

Health Education 120, 227, 320 ..... 12 qtr. hrs.
Zoology 348 4
Psychology 455 4

One or two courses from Biology 126, 127, 128, or Zoology 120, 121, 225; and course(s) chosen from Home Economics 303, Botany 233, 335, PEW 131, 300, Health Education 330 12

Total ..... 32 qtr. hrs.

History

Major: (Standard High School Certificate)

History 233, 234, 235, 244, 245, 246, 247, 248 ..... 32 qtr. hrs.
Advanced elective courses in history 20
Social Science 340 4
Economics 254, 255, 256 12
Three courses in sociology-anthropology 12
Three courses in political science 12
Geography 150 4

Total, including correlative courses ..... 96 qtr. hrs.

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 244, 245, 246, 247, 248 12
Elective courses in history numbered 300 or higher 12

Total ..... 36 qtr. hrs.

Home Economics

Major: (Standard Special Certificate. No minor required)

Home Economics 101, 102, 131, 201, 210, 211, 212, 230, 231, 245, 300, 301, 302, 320, 340, 345, 346, 347, 431 ..... 72 qtr. hrs.
Sociology 271, Economics 254; Anthropology 273 or Sociology 473 12

Total ..... 84 qtr. hrs.

Minor:

Home Economics 101, 210, 211, 231, 245, 303; 346 or 347 ..... 24 qtr. hrs.
Three courses from 131, 230, 320, 420, 346, 347 12

Total ..... 36 qtr. hrs.

Industrial Arts

Major: (Standard Special Certificate. No minor required)
Industrial Arts 134, 135, 140, 150, 231, 232, 245, 265, 259, 260, 326, 336, 340, 352, 354, 380, 382 ..... 64 qtr. hrs.

Minor:
Industrial Arts 134, 140, 150, 231, 259, 341, 452 ..... 28 qtr. hrs.
One of the following sequences: Industrial Arts 135, 336; 232, 233; 260, 360; 352, 354 8

Total ..... 36 qtr. hrs.

Journalism

Minor:
Journalism 210, 211, 212, 310, 311, 312 ..... 24 qtr. hrs.
English 120, 121; English 220 or an advanced course in English composition 12

Total ..... 36 qtr. hrs.

Latin American Studies

Major: (An interdisciplinary major. Standard High School Certificate)
Spanish ..... 36 qtr. hrs.
History 281, 282, 464, 465 16
Geography 351, 451 8
Anthropology 360 4
Political Science 481, 493 8
Additional courses to satisfy requirements for the Standard High School Certificate either through completing the requirements for a major and a minor or the requirements for three minors. The total number of quarter hours depends upon the choice of these additional courses.

Library Science

Minor:
Library 320, 430, 450, 460, 490; 330 or 332 ..... 24 qtr. hrs.
For certification for instructional materials, add Education 487, 488 8

Total ..... 24 or 32 qtr. hrs.

Manual Arts Therapy

Major: (Standard Special Certificate)
Industrial Arts 134, 135, 136, 150, 231, 232, 259, 260, 245, 265, 340, 326, 336, 352, 354, 452 ..... 60 qtr. hrs.

Advanced courses in psychology 12
Sociology courses 12

Total ..... 84 qtr. hrs.

Mathematics

Major: (Standard High School Certificate)
Mathematics 134, 225; 227 or 228; 235; 236; 340; 343; 344; 345; 470; 471; 350 or 460 or 480 or 490 ..... 48 qtr. hrs.

Minor:
Mathematics 134; 225 or 343; 227 or 228; 235; 236; 340; 345; 470. (Mathematics 340 may be omitted if both 225 and 227 have been chosen.) ..... 28 or 32 qtr. hrs.

Music

Major: (Special Certificate. The student chooses one of three options: General, Instrumental, Vocal and Keyboard.)

General Music Option:
Music 126, 127, 128, 130, 131, 132, 136, 137, 138, 146, 147, 148, 200, 201, 204, 205, 230, 231, 232, 340, 347, 351, 352, 353, 380, 381, 447 ..... 76 qtr. hrs.
Ensemble 6
Applied Music 11

Total ..... 93 qtr. hrs.

Instrumental Option:
Music 126, 127, 128, 130, 131, 132, 136, 137, 138, 146, 147, 148, 200, 201, 204, 205, 230, 231, 232, 340, 347, 351, 352, 353, 380, 381, 447, 455 ..... 80 qtr. hrs.
Ensemble 9
Applied Music 11

Total ..... 100 qtr. hrs.

Vocal and Keyboard Option:
Music 126, 127, 128, 130, 131, 132, 146, 147, 148, 200, 204, 230, 231, 232, 243, 244, 245, 339, 342, 343, 347, 351, 352, 353, 380, 381, 447 ..... 76 qtr. hrs.
Ensemble 6
Applied Music 11

Total ..... 93 qtr. hrs.

Minor:

Vocal Music Option:

Music 130, 131, 132, 230, 231, 339, 353, 380, four quarter hours in applied piano, six quarter hours in applied voice ..... 42 qtr. hrs.

Participation in university choral organization is required during each year of residence.

Instrumental Music Option:

Music 130, 131, 132, 230, 231, 200, 201, 204, 205, 340, 353, 381, four quarter hours in applied instrumental music ..... 44 qtr. hrs.

Participation in university instrumental organizations is required during each year of residence.

Physical Education, Men

Major: (Standard High School Certificate)

Physical Education 120, 121, 150, 244, 340, 451, 452	28 qtr. hrs.
One course from PEM 203, 204, 205, 206, 207, 208	2
One course from PEM 210, 211, 212, 213, 214, 215, 217, 240	2
Three courses from PEM 347*, 348*, 349*, 350*, 357, 358, 359, 360, with at least two from those marked with *	12
Health Education 227	4
Zoology 120, 121, 225, 348	16
Total, including correlative courses	64 qtr. hrs.

Note: The student must demonstrate proficiency in six activities other than those selected at the 200 level. Teaching practicum must include an assignment in the minor.

Minor:

Physical Education 120, 340, 452	12 qtr. hrs.
Health Education 227	4
One course from PEM 203, 204, 205, 206, 207, 208	2
One course from PEM 210, 211, 212, 213, 214, 215, 217, 240	2
Three courses from PEM 121, 244, 347, 348, 349, 350, 451	12
Total	32 qtr. hrs.

Note: The student must demonstrate proficiency in four physical education activities.

Physical Education, Women

Major: (Special Certificate)

Physical Education 130, 131, 132, 233, 234, 235, 244, 252, 336, 346, 353, 450, 410, 411	56 qtr. hrs.
Zoology 120, 121, 225, 348	16
Health Education 320	4
Total	76 qtr. hrs.

Note: The student must take twenty-two quarter hours (nominal credit) in activity courses, at the rate of two courses each quarter for eleven quarters.

Minor:

Physical Education (Women) 233 or 234; 346; 353; 413	16 qtr. hrs.
Health Education 227 or 320	4
Three courses from Physical Education 130, 131, 132, 233, 234, 244, 252, 336, 351, 355, 356, Health Education 227, 320	12
Total	32 qtr. hrs.

Note: The student must take eleven quarter hours (nominal credit) in activity courses.

Physics

Major: (Standard High School Certificate)

Physics 130, 131, 132, 236, 239, 240, 341, 342, 465	36 qtr. hrs.
Physics 461 or 462; 466 or 467; 468 or 469	12
Physical Science 340	4
Mathematics 134, 235, 236, 345	16
Two courses from Mathematics 350, 351, 460, 461	8
Chemistry (strongly recommended)	12
Total, including correlative courses	76 to 88 qtr. hrs.

Minor:

Physics 130, 131, 132	12 qtr. hrs.
Electives in physics as approved by the department	12
Electives in physics and/or chemistry	12
Total	36 qtr. hrs.

Psychology

Minor:

Psychology 231, 351; 352 or 447	12 qtr. hrs.
Elective courses 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, 320, PEM 461, PEW 131, 300, Psychology 447, 455, Political Science 112, 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, 112, 220, 221, 222	36 qtr. hrs.

Additional courses:

Geography	4
Economics	8
Political Science	8
Sociology	8
Economics, sociology, or political science	4
Social Science 340	4
History 233, 234, 235, 246, 247, 248	24
Courses in history numbered above 300	12
Total	108 qtr. hrs.

Minor:

Two of the following options:

a. Economics 254, 255, 256
b. Political Science 110, 111, 112 or 220 or 221 or 222
c. Anthropology 273, Sociology 271, 272 — 24 qtr. hrs.

Elective courses from anthropology, sociology, economics, geography, history, political science	12
Total	36 qtr. hrs.

Speech

Major: (Standard High School Certificate)

Speech 230, 232, 234, 252, 340	20 qtr. hrs.
Theater 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
c. Three courses from Speech 352; 452; 453 or 470 — 12

Elective: Any speech course other than 131	4
Total	52 qtr. hrs.

Minor:

General Speech Option:

Speech 131, 232, 340, and one speech elective	16 qtr. hrs.
Theater Arts 132, 133, 445	12
English 120 and 121 are included for certification	8
Total	36 qtr. hrs.

Public Address Option:

Speech 131, 230, 232, 234, 340	20 qtr. hrs.
Theater Arts 132, 133	8
English 120, 121 are included for certification	8
Total	36 qtr. hrs.

Speech Correction

Major: (Special Certificate in Speech Correction)

Speech Correction 254, 260, 262, 263, 452, 453, 455, 456, 457, 458	40 qtr. hrs.
Theater Arts 132, 133	8
Psychology 450, 451	8
Three courses from Psychology 360, 452, 455, Education 469, 328, 490, 444	12
Zoology 225	4
Total, including correlative courses	72 qtr. hrs.

Note: Because of requirements of the American Speech and Hearing Association, the student is advised to earn the master's degree as soon as possible.

Theater Arts

Major: (Standard High School Certificate)

Theater Arts 132, 133, 240, 244, 257, 333, 357, 358, 445, 473	40 qtr. hrs.
Speech 232, 332, 340	12
Total	52 qtr. hrs.

Minor:

Theater Arts 132, 133, 244, 257, 445	20 qtr. hrs.
Speech 131, 340	8
English 120, 121 are included for certification	8
Total	36 qtr. hrs.

Zoology

Major: (Standard High School Certificate)

Zoology 110, 111, 212, 214, 215, 336, 340, 343, 350, 445	40 qtr. hrs.
Electives in advanced zoology courses	12
Botany 120, 121, 222, 230, 231; 232 or 335; one course in botany numbered 300 or above	28
Chemistry 120, 121, 122; or 150, 151, 152	12
Geography 140	4
Total, including correlative courses and minor in botany	96 qtr. hrs.

Minor:

Zoology 110, 111, 212; or 120, 121, 122	12 qtr. hrs.
Zoology 214 or 225; 343; 348 or 350	12
Botany 120, 121, 222	12
Total	36 qtr. hrs.

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 requirements and specialization, together with elective courses.

General Requirements

The general requirements (and exemptions) are the same as those prescribed for the degree, Bachelor of Science in Education, except that a course in American history is not mandatory in fulfilling the social studies requirement. Suitable courses in the specialization may be used in partial fulfillment of the general requirements.

Specialization

Business 141, 142, 247, 230, 231, 232, 346, 347, 451, 481, 482	44 qtr. hrs.
Courses in the major	24
Total	68 qtr. hrs.

Majors:

Accounting: Business 354, 355, 356, 360, 461, 464
Management: Business 330, 383, 452, 453, 360, 363
Marketing: Business 248, 249, 250, 370, 486, 487
Secretarial: Business 212, 223, 224, 225, 383, 453

Electives

The general requirements and specialization must be supplemented by elective courses to bring the total to 192 quarter hours plus nominal credit. Courses in professional education and methods are not acceptable as elective courses. The electives must be chosen so that at least 96 quarter hours of the 192 submitted for graduation are in courses outside the School of Business.

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 192 quarter hours plus nominal credit. Courses in professional education and methods are not acceptable for elective credit.

General Requirements

The general requirements (and exemptions) are the same as those for the degree, Bachelor of Science in Education, except that a course in American history is not mandatory in fulfilling the social studies requirement. Suitable courses in the specialization may be used in partial fulfillment of the general requirements.

Specialization

Specialization for the degree, Bachelor of Science in Home Economics, offers a choice of two basic curricula—Dietetics and Home Economics in Business. The curriculum, Home Economics in Business, has two options—Foods and Nutrition or Clothing and Merchandising.

The courses required in these curricula are as follows:

Dietetics

Anthropology 273	4 qtr. hrs.
Botany 234	4
Business 230, 247, 451, 452	16
Chemistry 120, 121, 155, 356	16
Economics 254	4
Education 332	4
Home Economics 102, 210, 211, 212, 302, 310, 340, 360	32
Advanced Studies in Experimental Foods* and Diet Therapy*	8
Psychology 231, 351	8
Sociology 271, 473	8
Zoology 120, 348, 349	12

Home Economics in Business

Anthropology 273	4 qtr. hrs.
Business 141, 247, 486	12

* Courses in preparation.

Chemistry 120, 121, 155	12
Economics 254	4
Home Economics 102, 300, 320	12
Demonstration Techniques,* Summer Practicum,* Communications in Home Economics* and Textiles*	16
Journalism 312	4
Psychology 231	4
Sociology 271, 473	8
Option I or Option II	40-44

Option I—Foods and Nutrition

Botany 234	4 qtr. hrs.
Business 142, 250	8
Psychology 351 or 447	4
Home Economics 210, 211, 212, 302	16
Home Economics 310 or 345	4
Textiles*	4
Total	40 qtr. hrs.

Option II—Clothing and Merchandising

Business 248, 249	8 qtr. hrs.
Home Economics 101 and/or 201	4-8
Home Economics 131, 231, 301, 401, 420	18
Advanced Studies in Experimental Foods* and Diet Therapy*	8
Total	40-44 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 192 quarter hours/plus nominal credit. Courses in professional education and methods are not acceptable for elective credit.

General Requirements

The general requirements (and exemptions) are the same as those prescribed for the degree, Bachelor of Science in Education, except that a course in American history is not mandatory in fulfilling the social studies requirement. Suitable courses in the specialization are applied toward the general requirements.

* Courses in preparation.

Specialization

The specialization provides for three options: Metal Work, Light Building Construction, and Electronics.

The courses required in the specialization are as follows:

Chemistry 120, 121, 122; or 150, 151, 152	12 qtr. hrs.
Physics 130, 131, 132	12
Mathematics 130, 131, 134, and Industrial Calculus*	16
Economics 254, 255, 357	12
Art 100 or 110 or 111 or 390 or 391	4
Sociology 381	4
Geography 360	4
Business 383; 451 or 452	8
Psychology 231, Industrial Psychology*	8
Industrial Arts 135, 140, 150, 231, 300, 352	24
Descriptive Geometry*	4
Applied Mechanics,* Materials Testing,* Quality Control,* Industrial Safety,* Production Control*	18
Internship in Industry*	8
Option I, II or III	18-24
Total	144-160 qtr. hrs.

Option I—Metal Work

Industrial Arts 326, 354, 420	12 qtr. hrs.
Metallurgy,* Casting*	4
Elective	2

Option II—Light Building Construction

Industrial Arts 265, 336, 380, 382	14 qtr. hrs.
Wood Fabrication,* Surveying,* Cost Estimating,* Specifications,* Office Practice*	10

Option III—Electronics

Physics 250	4 qtr. hrs.
Elective in Electronics	6
Industrial Electronics,* Electrical Instrumentation*	8

BACHELOR OF ARTS AND BACHELOR OF SCIENCE

The degrees, Bachelor of Arts and Bachelor of Science, are conferred upon completion of programs consisting of general requirements and specialization, supplemented by elective credit to meet the minimum graduation requirement of 192 quarter hours plus nominal credit. Courses in professional education are not accepted for credit toward these degrees.

* Courses in preparation.

General Requirements

	B.S.	B.A.	
English 120, 121	8	8	qtr. hrs.
Speech 131, or approved substitute	4	4	
Natural Science	24	12	

The sciences are classified in two fields: biological sciences (botany, zoology, and general biology) and physical sciences (physics, chemistry, and physical sciences.) Twelve quarter hours in each of these fields are required for the degree, Bachelor of Science, and twelve quarter hours in one field, for the degree, Bachelor of Arts.

A student who presents two acceptable units[1] in physical sciences may be exempt from the physical science requirement and have the total science requirement for the degree, Bachelor of Science reduced to twelve quarter hours in biological science. A student who presents two acceptable units in biological science may have the total science requirement reduced to twelve quarter hours in physical science. Regardless of exemptions the student must take at least twelve quarter hours in one of the fields in the science area.

History ..... 16 16 qtr hrs.

History courses may be classified as American history, European history, Latin American history, world history, etc., and at least two of these fields of history must be included in meeting the normal requirement.

A student who presents one or more acceptable units in history may have the history requirement reduced four quarter hours for each acceptable unit to a maximum of eight quarter hours, with this work taken in a subject different from that in which the exemption is granted.

Social Studies (except history) ..... 16 16 qtr. hrs.

The social studies area is defined to include economics, political science, sociology, psychology, and geography. The normal requirement of sixteen quarter hours must include work in at least two subjects.

Humanities ..... 16 24 qtr. hrs.

This area comprises art, music, literature, and philosophy. The normal requirement of sixteen quarter hours for the degree, Bachelor of Science, requires work in at least two of these subjects. The normal requirement of twenty-four quarter hours for the degree, Bachelor of Arts, requires work in at least three of these subjects. An approved course in literature in a foreign language may not count simultaneously toward the requirement in foreign language and the humanities.

A student who presents one or more acceptable units in any of the subjects in the humanities area may have the requirement reduced by four quarter hours.

Mathematics ..... 8 8 qtr. hrs.

Courses in college mathematics other than courses in methods of teaching mathematics may be used to satisfy this requirement.

A student may be exempt from this requirement if he passed any mathematics course in high school beyond two years of college preparatory mathematics. Algebra, plane geometry, solid geometry, and trigonometry are considered college preparatory mathematics courses; courses of newer types now offered in certain high schools may be ruled by the Department of Mathematics to be college preparatory courses.

Foreign Language ..... 24 36 qtr. hrs.

This requirement must consist of courses in a single language.

A student who presents four acceptable units in a single foreign language is exempt from this requirement in the Bachelor of Science program.

A student with less than four acceptable units in a single foreign language will be considered to have completed the requirement in the Bachelor of Science program when he has passed the third quarter course of the second year in a foreign language (Latin 222, French 232, German 235, Russian 252, Spanish 232) or any higher numbered course in that language.

Regardless of the number of acceptable units, a student will be considered to have completed this requirement in the Bachelor of Arts program when he has passed twelve quarter hours of work in a foreign language at the 300 or higher level.

For placement provisions in foreign language classes, see Section X.

Health Education 120	4	4	
Physical Education (nominal credit)	(6)	(6)	

Specialization

The specialization for the degrees, Bachelor of Arts and Bachelor of Science, may consist of a departmental major (forty-eight quarter hours as outlined in the following section) and minor (twenty-four quarter hours as outlined in the following section), an inter-

[1] An acceptable unit is defined as two semesters of high school work, taken five periods per week with a B average by a student who ranked in the upper two-thirds of his high school class.
Exemptions do not establish college credit. They free the student for greater flexibility in planning his college courses by permitting more elective credit. Students who are not eligible for exemptions under the rules above may apply for examination in high school subjects in which they feel confident that they have adequate background.

disciplinary major of prescribed courses in related disciplines, or certain cooperative programs. Suitable courses in the specialization may also be used in partial fulfillment of the general requirements.

Majors and Minors

These majors and minors are not acceptable in teacher education programs.

Art

Major:

Art 100, 101, 110, 111, 205, 260	24 qtr. hrs.
Art 261, 262; or 225, 270	8
Sixteen quarter hours from one of the following groups: (1) art history; (2) commercial design; (3) drawing, painting, print making; (4) ceramics, jewelry, sculpture, weaving	16
Total	48 qtr. hrs.

Minor:

Twenty-four quarter hours in art courses as approved by the head of the department	24 qtr. hrs.

Botany

Major:

Botany 120, 121, 222, 230, 231	20 qtr. hrs.
Electives in botany	28
Total	48 qtr. hrs.

Correlative courses: one year in chemistry

Minor:

Botany 120, 121, 222, and twelve quarter hours approved by the head of the department	24 qtr. hrs.

Business

Major:

Business 141, 142, 230, 247, 346, 451	24 qtr. hrs.
Electives as approved by the Director of the School of Business	24
Total	48 qtr. hrs.

Minor:

Twenty-four quarter hours in one of the following: (1) shorthand and typing; (2) accounting and related courses; (3) law, marketing and management; as approved by the Director	24 qtr. hrs.

Chemistry

Major:

Chemistry 150, 151, 152; or 120, 121, 122	12 qtr. hrs.
Chemistry 343, 344, 345, 330, 361, 470, 491, 492, 493	36
Total	48 qtr. hrs.

Minor:

Chemistry 150, 151, 152; or 120, 121, 122	12 qtr. hrs.
Chemistry 343, 344; 234 or 345 or 356	12
Total	24 qtr. hrs.

Economics

Major:

Forty-eight quarter hours including Economics 460, 461, 462	48 qtr. hrs.

Minor:

Economics 254, 255, 256, and twelve quarter hours as approved by the head of the department	24 qtr. hrs.

English

Major:

Completion of requirements for a minor as listed below	24 qtr. hrs.
Elective courses in English as approved by the head of the department	24
Total	48 qtr. hrs.

Minor:

English 245, 246, 247; 326 or 327; eight quarter hours in upper-division courses in American or English literature	24 qtr. hrs.

Foreign Language

Major:

Forty-eight quarter hours in a language, including twelve quarter hours in courses numbered 400 or above	48 qtr. hrs.

Minor:

Twenty-four quarter hours in a language	24 qtr. hrs.

Geography

Major:

Forty-eight quarter hours in courses in geography approved by the head of the department	48 qtr. hrs.

Minor:
Geography 141, 142, 150, and twelve quarter hours in geography courses approved by the head of the department ..... 24 qtr. hrs.

History

Major:
History 233, 234, 235, 244, 245, 246, 247, 248 ..... 32 qtr. hrs.
Elective courses in history numbered above 300 16
Total ..... 48 qtr. hrs.

Minor:
Twenty-four quarter hours in history ..... 24 qtr. hrs.

Home Economics

Major:
Home Economics 131, 300, 303, 320, 346, 347 ..... 24 qtr. hrs.
Electives in home economics 24
Total ..... 48 qtr. hrs.

Minor:
Twenty-four quarter hours in home economics approved by the head of the department ..... 24 qtr. hrs.

Industrial Arts

Major:
Completion of requirements for the minor as listed below ..... 24 qtr. hrs.
Elective courses in industrial arts approved by the head of the department 24
Total ..... 48 qtr. hrs.

Minor:
Three of the following sequences: (1) Industrial Arts 134, 135; (2) 231, 232; (3) 259, 260; (4) 140, 352; (5) 150, 300; (6) 380, 382; (7) 245, 265, 452 ..... 24 qtr. hrs.

Journalism

Minor:
Journalism 210, 211, 212, 310, 311, 312 ..... 24 qtr. hrs.

Latin American Studies

Major: (Interdepartmental major; no minor required)
Spanish ..... 36 qtr. hrs.
History 281, 282, 464, 465 16
Geography 351, 451 8
Anthropology 360 4
Political Science 481, 493 8
Total ..... 72 qtr. hrs.

Mathematics

Major:
Mathematics 134, 235, 236, 343, 344, 345 ..... 24 qtr. hrs.
Electives chosen from Mathematics 225, 228, 231, 350, 351, 460, 461, 470, 480, 490 24
Total ..... 48 qtr. hrs.

Minor:
Mathematics 134, 235, 236, 345, and eight quarter hours chosen from courses acceptable for the major ..... 24 qtr. hrs.

Music

Major:
Music 130, 131, 132, 230, 231, 232, 347, 351, 352, 353, 447 ..... 44 qtr. hrs.
Applied music 12
Electives chosen from Music 243, 244, 245, 342, 343, 362, 455, 460, 463. Seniors who satisfy all prerequisites may substitute courses chosen from Music 510, 511, 517, 530, 531, 532, 534, 536, 547. Participation in one ensemble each quarter is required 10
Total ..... 76 qtr. hrs.

Minor:
Music 130, 131, 132, 230, 231, 353, and six quarter hours as approved by the Director of the School of Music ..... 30 qtr. hrs.

Philosophy

Minor:
Philosophy 250, 301, and sixteen quarter hours of courses in philosophy approved by the head of the department ..... 24 qtr. hrs.

Physical Education

Major:
Twelve courses selected from PEM 120, 121, 150, 228, 244, 351, 451, 452, 461, 521, 522, 528; PEW 131, 132, 235, 336 ..... 48 qtr. hrs.

Physics

Major:

Physics 130, 131, 132, 236, 239, 240, 341, 342, 465 ..... 36 qtr. hrs.

Electives in physics approved by the head of the department selected from 461, 462, 466, 467, 468, 469 12

Total ..... 48 qtr. hrs.

Mathematics courses including differential equations or advanced calculus are prerequisite to advanced work in physics. At least one year of chemistry is desirable.

Minor:

Physics 130, 131, 132, and twelve quarter hours of courses approved by the head of the department ..... 24 qtr. hrs.

Political Science

Major:

Eight quarter hours chosen from Political Science 100, 110, 111, 112 ..... 8 qtr. hrs.

Forty quarter hours chosen so that the entire major includes four of the following areas: (1) international affairs; (2) comparative foreign governments; (3) politics and political behavior; (4) public law and administration; (5) political theory 40

Total ..... 48 qtr. hrs.

Minor:

Eight quarter hours chosen from Political Science 100, 110, 111, 112; sixteen quarter hours approved by the head of the department ..... 24 qtr. hrs

Psychology

Major:

Psychology 231, 234, 261, 281 ..... 16 qtr. hrs.

Psychology courses approved by the head of the department 32

Total ..... 48 qtr. hrs.

Minor:

Psychology 231, 351, and sixteen quarter hours of courses in psychology as approved by the head of the department ..... 24 qtr. hrs.

Sociology

Major:

Completion of the requirements for the minor as listed below ..... 24 qtr. hrs.

Elective courses in sociology approved by the head of the department 24

Total ..... 48 qtr. hrs.

Minor:

Anthropology 273; Sociology 271, 272; twelve quarter hours of elective courses approved by the head of the department ..... 24 qtr. hrs.

Speech

Major:

Theater Arts 132, 133 ..... 8 qtr. hrs.

Elective courses in speech approved by the head of the department 40

Total ..... 48 qtr. hrs.

Minor:

Theater Arts 132, 133, and sixteen quarter hours in speech courses approved by the head of the department ..... 24 qtr. hrs.

Speech Correction

Major:

Speech Correction 254, 260, 262, 263, 452, 453, 455, 456, 457, 458 ..... 40 qtr. hrs.

Theater Arts 132, 133 8

Total ..... 48 qtr. hrs.

Theater Arts

Major:

Completion of the requirements for the minor as listed below ..... 24 qtr. hrs.

Elective courses in theater arts approved by the head of the department 24

Total ..... 48 qtr. hrs.

Minor:

Theater Arts 132, 133, and sixteen quarter hours in courses in theater arts as approved by the head of the department ..... 24 qtr. hrs.

Zoology

Major:

Zoology 110, 111, 212, 214, 215, 336, 343, 350, 445	36 qtr. hrs.
Three courses chosen from Zoology 327, 341, 344, 345, 346, 347, 449, 451, 452, 453	12
Total	48 qtr. hrs.

Minor:

Zoology 120, 121, 122	12 qtr. hrs.
Electives in zoology	12
Total	24 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 120, 335	8 qtr. hrs.
Chemistry 120, 121, 122; or 150, 151, 152	12
Chemistry 234, 343, 344	12
Psychology 231	4
Zoology 120, 121, 225	12
Zoology 327 or 451	4
Courses to complete the general requirements for the degree, Bachelor of Science, and elective courses	92+(6)
Total, plus 6 qtr. hrs. nominal credit in physical education	144

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 or Bachelor of Arts, is conferred by Eastern upon the granting of an engineering degree at the University of Illinois after completion of the prescribed program at Eastern. 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 VII.

The three years of work to be taken at Eastern prior to transferring to the University of Illinois comprise:

General Requirements:

The general requirements for the degree, Bachelor of Science or Bachelor of Arts.

Specific Courses:

Chemistry 150, 151, 152; or 120, 121, 122
Physics 130, 131, 132, 236, 239, 240
Mathematics 134, 235, 236, 345, 350
Mathematics 351 or 460
Industrial Arts 131

Electives:

Elective credit to bring the total to 144 quarter hours plus six quarter hours nominal credit in service courses in physical education.

After completing ninety-six 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 2.5 and approval by the committee. Continuation as an engineering candidate requires maintaining a minimum grade-point average of 2.5.

The concentration in science and engineering is accepted in lieu of a major and a minor. If the complete record of a student includes the requirements for one or more majors and minors as defined in the majors and minors for the degrees, Bachelor of Science and Bachelor of Arts, these will also be certified on the student's record.

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 or Bachelor of Arts.

PLAN I:

This plan provides for the conferring of the baccalaureate degree with a major in zoology and a minor in chemistry 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 for the degree, Bachelor of Science or Bachelor of Arts, except Health Education 120.

Specific Courses:

Chemistry 150, 151, 152; or 120, 121, 122
Chemistry 234, 343, 344
Zoology 110, 111, 212, 214, 215
Physics 130, 131, 132

Electives:

Elective credit to bring the total course work at Eastern to 144 quarter hours plus six quarter hours nominal credit in service courses in physical education.

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 must have been met.

The following courses at the College of Medicine are acceptable to complete the major and minor at Eastern:

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:

This plan leads to the degree, Bachelor of Science or Bachelor of Arts, prior to entering medical School. The plan provides for either an inter-departmental pre-medical studies major or a regular departmental major and minor.

The requirements for graduation are as follows:

General Requirements:

The student must meet all of the general requirements for the degree, Bachelor of Science or Bachelor of Arts, except Health Education 120.

Specific Courses:

If the interdepartmental major is chosen, the student must complete the following courses:

Chemistry 150, 151, 152; or 120, 121, 122
Chemistry 234, 343, 344
Chemistry electives—12 quarter hours
Zoology 110, 111, 212, 213, 215
Zoology electives—16 quarter hours
Physics 130, 131, 132
Mathematics 134, 235, 236

The student who chooses to complete a departmental major and minor will follow the regular requirements for the degree, Bachelor of Science or Bachelor of Arts.

Admission to Candidacy:

Students are required to make application for admission as pre-medical studies candidates upon completing sixty quarter hours of courses and before completing eighty-four quarter hours of credit. Requirements for approval of this application include a minimum grade-point average of 2.5 and approval by the pre-medical committee. The pre-medical committee will consider grades in science courses, impressions and findings resulting from personal interview, and the advice of the university physician regarding the physical fitness of the candidate.

Students who are not approved as candidates must transfer from the Division of Pre-Medical Studies into another curriculum.

Continuation as a pre-medical studies degree candidate requires the maintenance of a minimum grade-point average of 2.5.

A student who transfers from another institution to Eastern Illinois University must be in residence at least one quarter before he can be admitted as a pre-medical studies degree candidate. He must meet all residence requirements for a baccalaureate degree.

Pre-Law

There is no formal curriculum for pre-legal studies. Students are referred to advisers who will counsel with them concerning the requirements for admission to law schools. Ordinarily, the student will take a bachelor's degree with a major and a minor in standard academic disciplines.

VII. 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 adviser without the formality of application for a waiver, except that English 120, 121, 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, 121, Industrial Arts 131	12 qtr. hrs.
Mathematics 134, 235, 236	12
Physics 130, 131, 132	12
Chemistry 150, 151, 152; or 120, 121, 122	12
Physical Education	(3)

Note: Students who do not have prerequisites for Mathematics 134 must start with 130 or 131; see course descriptions in Section X for prerequisites.

Second Year

Mathematics 345, 350, 351	12 qtr. hrs.
Physics 236, 239, 240	12
Humanities, as outlined by adviser	12
Social Science, as outlined by adviser	12
Physical Education	(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, 151, 152	12 qtr. hrs.
If prerequisites are lacking, the student may take 120, 121, 122.	
English 120, 121	8
Industrial Arts 131 or 231	4
Mathematics 134, 235, 236	12

Students who do not have prerequisites must start with 130 or 131; 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	(3)

Second Year

Chemistry 343, 344, 345	12 qtr. hrs.
Mathematics 345, 350, 351	12
Physics 236, 239	8
Speech 131, or elective	4
Foreign Language (one year French, German, or Russian)	12

Note: Physics 130, 131, 132 should be substituted here if language was taken in first year.

Physical Education	(3)

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, 121	8
Speech 131	4
Mathematics 130, 131	8
Zoology 120, 121, 225	12
Elective	4
Physical Education	(3)

Second Year

Chemistry 234, 343, 344	12 qtr. hrs.
Physics 130, 131, 132	12
Electives	24
Physical Education	(3)

Note: It is recommended that the electives include history, economics, philosophy, sociology, and a modern language.

Pre-Nursing

For students interested in nursing who choose to attend Eastern Illinois University for one or two years before going to a hospital school, a program may be planned to include basic courses in chemistry, zoology, English, social studies, and humanities.

For students interested in completing their work in a program leading to the degree, Bachelor in Nursing, it is suggested that they consult with the Director of the School of Nursing that they wish to attend.

Pre-Optometry

Schools of optometry usually require two years of pre-professional work.

First Year

English 120, 121	8 qtr. hrs.
Speech 131	4
Chemistry 120, 121, 122; or 150, 151, 152	12
Zoology 120, 121, 225	12
Mathematics 130, 131, 134	12
Physical Education	(3)

Second Year

Physics 130, 131, 132	12 qtr. hrs.
Psychology 231	4
Elective (Social studies, humanities, history)	32
Physical Education	(3)

Pre-Pharmacy

One Year

Chemistry 120, 121, 122; or 150, 151, 152	12 qtr. hrs.
English 120, 121	8
Speech 131	4
Mathematics 130, 131, 134	12
Electives to be selected in terms of the requirements of the College of Pharmacy selected by student	12

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, 121	8
Speech 131	4
Mathematics 130, 131	8

Botany 120	4
Zoology 120, 121	8
Elective	4
Physical Education	(3)

Second Year

Chemistry 234, 343, 344	12 qtr. hrs.
Physics 130, 131, 132	12
Foreign Language	12
Electives	12
Physical Education	(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, 121, Speech 131	12 qtr. hrs.
Botany 120, 121, 222	12
Chemistry 120, 121; or 150, 151	8
Health Education 120	4
Electives	12
Physical Education	(3)

Second Year

Botany 231, 232, 233 or 335	12 qtr. hrs.
Geography 140 or Elective	4
Zoology 120, 121	8
Electives	24
Physical Education	(3)

Note: If vocational agriculture is planned, Education 230 and Psychology 231 should be added.

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 120, 121, 122, Geography 140, 141, 142, 151, 243, History 233, 234, 235, Economics 254, 255, 256, Industrial Arts 231, 232, 233.

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, 121, Speech 131	12 qtr. hrs.
Mathematics 130, 131	8

Botany 120, 121, 222 12
Chemistry 120, 121, 122; or 150, 151, 152 12
Geography 140 or 141 or 142 4
Physical Education ..... (3)

Second Year

Physics 130, 131 ..... 8 qtr. hrs.
Geography 141, 142, 380, 387 16
Industrial Arts 231, 232 8
History 234, 235 8
Electives 8
Physical Education ..... (3)

PRE-GEOLOGY

The courses in this curriculum correspond closely to freshman and sophomore courses ordinarily required in curricula in Geology.

First Year

English 120, 121, Speech 131 ..... 12 qtr. hrs.
Chemistry 120, 121, 122; or 150, 151, 152 12
Mathematics 130, 131, 134 12
Geography 140, 141, 142 12
Physical Education ..... (3)

Second Year

Physics 130, 131, 132 ..... 12 qtr. hrs.
Mathematics 235, 236, 345 12
Industrial Arts 231, 232 8
Electives 16
Physical Education ..... (3)

PRE-JOURNALISM

The program suggested below is designed to provide a general background for prospective journalism majors. Students with definite plans for transfer should consult the requirements of the journalism school to which they intend transferring and adjust their programs accordingly.

First Year

English 120, 121, Speech 131 ..... 12 qtr. hrs.
Laboratory Science (year) 12
Electives 24
Physical Education ..... (3)

Note: Students who have not had foreign language in high school should elect a year of foreign language. History 246, 247, 248 are strongly recommended.

Second Year

English 260, 261, 250 or 270 ..... 12 qtr. hrs.
Journalism 210, 211, 212 12

History 233, 234, 235 12
Electives 12
Physical Education ..... (3)

Note: Following are recommended electives: Geography 150, 151, Music 229, Industrial Arts 259, 260, Economics 254, 255, 256, Political Science 100, 110, 111, 112, Sociology 271, 272.

PRE-LAW

There is no formal curriculum for pre-legal studies. Students are referred to advisers who will counsel with them concerning the requirements for admission to law schools. Ordinarily, the student will take a bachelor's degree with a major and a minor in standard academic disciplines.

TWO YEAR GENERAL CURRICULUM

This curriculum offers a wide choice of electives but requires that they conform to a pattern which encourages both depth and breadth of education. The curriculum is recommended to students who have not yet decided upon a field of major interest and wish to explore several fields, to students who have definite plans for transferring to other colleges at the end of the first two years, and to students who wish to round out their education with two years of general college work.

First Year

English 120, 121, Speech 131 ..... 12 qtr. hrs.
Laboratory Science 12
Electives 24
Physical Education ..... (3)

Note: The laboratory science may be one year of botany, chemistry, physics, zoology, or general physical science.

Electives must be selected so that the four subjects are in four different fields. Courses in Education may not be counted as electives.

Second Year

History 233, 234, 235 ..... 12 qtr. hrs.
Foreign Language 12
Electives 24
Physical Education ..... (3)

Note: If the student has had two acceptable units of foreign language in high school he may substitute an elective.

Electives should be the second year in some subject studied during the first year.

VIII. Extension Services

ESTABLISHING CENTERS

Extension courses are assigned to centers where it is likely that needs and enrollment will justify the service. All requests from county superintendents, unit administrators, and groups of teachers are carefully 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 courses are open to high school graduates. An application for admission must be filed at the time of registration the first time a student registers for an 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 at the time of registration the first time he registers for a graduate course.

REGISTRATION PROCEDURES

Students 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

Application Fee

All students applying for admission to the University for the first time are required to pay a $15.00 non-refundable application fee. The fee must accompany the application for admission.

Course Fees

The fees are $6.00 per quarter hour of credit. In addition, a $2.50 book rental is charged each student.

Regular fees are required of students auditing a course.

CREDIT

Credit (in most cases, four quarter hours) is given in the course description.

Persons not interested in receiving credit may audit courses by 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 fifty minutes for sixteen weeks. Address all requests for bulletins and other inquiries to the Director of Extension.

IX. 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. 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 days before the first registration for graduate courses and must be accompanied by a $15 non-refundable application fee. Former students who return to the university after a lapse of one or more quarters must apply for readmission at least ten calendar days prior to the official registration day of the quarter in which they wish to enroll. Application blanks may be secured from the office of the Dean of the Graduate School.

Graduate Study in the Senior Year

During the final quarter of residence in undergraduate work, a student 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.

Graduate Assistantships

Graduate assistantships are available in the major field departments and certain administrative offices. The assistantships carry a stipend of $180 per month and appointments are for the academic year or summer sessions. To be eligible the applicant must have earned an overall 2.5 undergraduate grade point average and been admitted to take graduate courses. Further information on assistantships may be obtained by writing to the Dean of the Graduate School or the major department.

GENERAL REGULATIONS AND REQUIREMENTS

Scholastic Load

The maximum amount of credit toward a graduate degree that may be earned in full-time residence in any quarter of the academic year is sixteen quarter hours. The maximum that may be earned in

an academic year by a teacher who is employed full-time is twelve quarter hours; simultaneous enrollment in two or more courses is not permitted.

The maximum load for the summer eight-week graduate term is twelve quarter hours.

Residence Requirement

At least thirty-six quarter hours of credit toward the master's degree must be earned in residence courses at the university. One quarter in the academic year or two summer terms must be spent in full-time residence.

For the Specialist in Education degree, at least forty-eight quarter hours must be earned in residence credit at the university. One quarter in the academic year or two summer terms must be spent in full-time residence.

Residence credit is given for evening and Saturday courses on the campus. No credit is allowed for correspondence courses.

Transfer Credit

A maximum of twelve quarter hours of acceptable transfer and/or extension credit may be applied toward a master's degree.

Adviser

Each student who wishes to become a candidate for a degree is assigned to an adviser. It is the responsibility of the adviser to counsel with the student in his choice of courses, to sponsor his application for admission to candidacy, to approve his paper or study, and to arrange his examinations. Other faculty members may be appointed to share any of these reponsibilities.

Time Limit

The program for the master's degree must be completed within six consecutive years; that for the Specialist in Education degree must be completed within four years after admission to candidacy. An extension of time may be granted only when a delay has been caused by circumstances beyond the control of the student.

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. The Master of Science in Education degree may be earned in the following fields:

Art
Biological Sciences
Business Education
Education
  Educational Administration
  Elementary Education
  Guidance and Counseling
English
Foreign Languages
Geography
History
Industrial Arts
Mathematics
Music
Physical Education—Men
Physical Education—Women
Physical Sciences
Social Sciences
Speech

Admission to Candidacy. The student must petition for admission to candidacy for the Master of Science in Education degree on a form supplied by the Dean of the Graduate School. The petition must contain the proposed program of courses and be approved by the student's adviser.

The following requirements must be met at the time of filing the petition, or between the time the petition is filed and the time it is considered by the Council on Graduate Studies:

1. An applicant who does not have the B.S. in Ed. degree from Eastern must submit evidence that he has had the necessary courses in education and student teaching. (Usually one who holds a regular teacher's certificate valid in Illinois can meet this requirement). Any deficiencies prescribed by the Council on Graduate Studies must be made up through additional undergraduate courses to be taken without credit toward a degree.

2. The Graduate Record Examination must be taken. This may be scheduled through the University Testing Services or the Graduate School.

3. Twelve quarter hours of courses in the proposed program must be completed at this university, with grades of 3.0, except that this requirement is waived for students possessing an undergraduate grade-point average of 3.0 or better.

4. Grades in all graduate courses taken at the time the petition is considered, including those which may not have been included in the proposed program, must average at least 2.5.

5. The student must complete such deficiencies as the Council on Graduate Studies may prescribe if he did not rank in the top two-thirds of his undergraduate class or, if rank cannot be determined, hold a cumulative undergraduate grade-point average of 2.5 or more.

6. The student must present supporting evidence of the possession of desirable personal qualities of a teacher.

7. The student must secure admission to candidacy prior to beginning the final 24 quarter hours of a proposed program.

Program of Studies. The proposed program of studies included as a part of the petition for admission to candidacy must conform with the stipulations and purposes contained in the following paragraphs.

The program must include 48 quarter hours, of which at least 36 quarter hours are in courses numbered 500 or above.

The program is based on the assumption that the personal and professional competence sought by the candidate has at least three contributing factors: basic educational theory, specialized professional knowledge and experiences, and continued cultural and intellectual development independent of the field of concentration. These factors are the basis for the division of the program into three groups, as presented below:

GROUP I—BASIC EDUCATION COURSES

It is the purpose of the courses of this group to present aspects of fundamental educational theory. Three courses or 12 quarter hours must be chosen from the following:

Education 550. Principles of Curriculum Development
Education 551. Social Foundations of Education
Education 552. Understanding the Individual
Education 553. Philosophy of Education
Education 554. History of Educational Thought

It is recommended that no more than one of these courses be taken in any quarter or summer term.

A student may petition for a proficiency examination in any of these courses. Successful completion of the examination permits the substitution of elective courses of equivalent credit in the program of studies.

GROUP II—AREA OF CONCENTRATION

The courses of this group are intended to constitute an area of specialization. They may be taken in a single department or in more than one department. The unifying principle is their significance to

the teaching field or the specialized professional work of the candidate. An important consideration in admission to candidacy for the degree, Master of Science in Education, is the unity displayed in the selection of the courses of this group. Courses totaling 24 or 28 quarter hours credit must be taken in Group II.

GROUP III—GENERAL EDUCATION

The courses of this group are intended to implement the assumption that continued cultural and intellectual development independent of the field of concentration may contribute significantly to professional and personal competence. It is intended that these courses shall provide new intellectual experiences, consquently, they should be chosen in fields that are new to the student. They assume intellectual maturity but little or no previous introduction to the field of study. Normally a student is eligible to take a Group III course if he has taken no more than twelve quarter hours in that field. Courses totaling 12 or 8 quarter hours credit must be taken in Group III.

The following courses are currently acceptable in Group III: Anthropology 550; Art 550, 551; Botany 550, 551, 552; Business 550; Classics 550, 551 (Literature in Translation); Economics 550; English 550, 551; Geography 550, 551, 552; History 550, 551, 552; Industrial Arts 550; Mathematics 550; Music 550, 551; Philosophy 550; Physical Education 550, 551; Political Science 550; Zoology 550, 551.

The Paper. Each candidate who is granted the degree, Master of Science in Education, must present evidence of his ability to conduct an independent study and to report his findings in writing of a quality appropriate to the master's degree level of maturity. The report must be in a style and form acceptable in formal writing. It is recommended that the subject of the paper grow out of an aspect of Group II of the candidate's program of studies. The candidate may elect one of two plans for satisfying this requirement.

PLAN A. Candidates electing to complete requirements under this plan may register, and receive four quarter hours of credit toward graduation with the credit included as a part of Group II. The student's adviser may act as adviser for the paper or another faculty member may, with the consent of the Graduate Dean, be designated to take this responsibility. It is recommended that the paper be read by at least two members of the Graduate Faculty other than the adviser before it is given final approval. Candidates who contemplate graduate study beyond the master's degree are urged to elect Plan A.

It is required that the original and first carbon copy of the paper submitted under Plan A, appropriately bound, be deposited in the University Library. An abstract of the Plan A paper is also required.

PLAN B. Candidates electing to complete requirements under this plan may submit a term paper from a course in Group II in fulfillment of the requirement. To be acceptable for this purpose, the paper must be so certified by the candidate's adviser and the instructor of the course in which the paper is submitted.

It is required that the original copy of the paper submitted under Plan B, appropriately bound, be deposited in the office of the Dean of the Graduate School.

The Examination. An examination is required of all candidates for the degree, Master of Science in Education, during the final term of work. The purposes of the examination are to test the achievement of the student with respect to the purpose of his program of studies and to promote the integration of his studies.

The examination is given by a committee appointed by the adviser. It may be written, or oral, or both. The passing of the examination must be certified by the adviser at least two weeks before graduation.

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. Three departments have been authorized to give majors leading to the Master of Arts degree—History, Mathematics, and Music. Two majors, Physics and Speech Correction, have been authorized leading to the Master of Science degree.

Admission to Candidacy. The student must petition the major department for admission to candidacy, presenting a proposed program of courses. (See below.) Petition forms may be obtained from the Office of the Dean of the Graduate School. At the time the petition is filed, the following requirements must be met:

1. There must be adequate undergraduate preparation in the major field. Any deficiencies, as determined by the major department, must be made up without credit toward the degree.

2. The Graduate Record Examination must be taken. This may be scheduled through the University Testing Services or the Graduate School.

3. The candidate must have completed at least one course in his major field and his grade in that course and all other courses listed on his petition for admission to candidacy must average 3.0. The requirement of the completion of one course is waived for students possessing an undergraduate grade-point average of 3.0 or better.

4. The candidate must not have completed more than 24 quarter hours of his proposed program at the time of filing his petition for admission to candidacy.

Program of Studies. The program of studies may include work in a single discipline or a major in one discipline and a minor in another closely related one. Where a major and a minor are proposed, the major must comprise 32 or 36 quarter hours, and the minor, 16 or 12 quarter hours. (For further details on majors and minors, see the *Graduate Bulletin.*)

At least 36 quarter hours of the proposed program must be in courses numbered 500 and above.

Four quarter hours, or more, of the major shall be reserved for a thesis. An exception to this requirement is made in departments where independent research would be required and the formality of a thesis would be impractical. The student's adviser may act as adviser for the thesis or another faculty member may, with the consent of the department, be designated to take this responsibility.

The student's program, as approved by the department, must be filed in the Graduate School office. Deviations from the program may be permitted only on approval of the major department, with notification of such approval being filed in the Graduate School office by the department head.

The Examination. Each candidate for the M.A. and M.S. degree must undergo a comprehensive oral or written examination or both. This is given by his department and covers his major field. The purpose of the examination is to test his scholarly attainments in his discipline. The department may remand a student to further work if he fails to perform satisfactorily in this examination.

Graduation Requirements

The master's degree is conferred upon:

1. The completion of the approved program of studies of 48 quarter hours with grades that average B (3.0) or higher and with no more than eight quarter hours of courses with grades below B.

2. Certification by the adviser not later than the middle of the last term of residence that an acceptable paper or research project has been completed and approved.

3. Filing of the formal papers and abstracts (if required) in the proper depositories.

4. Satisfactory performance in a comprehensive examination.

5. Passing an examination on the Declaration of Independence, the proper use and display of the flag, the Constitution of the United States, and the Constitution of Illinois. This requirement may be waived if the candidate passed the examination as a requirement for an undergraduate degree at one of the state universities in Illinois within ten years of application for the graduate degree.

6. Completion of special departmental requirements, if any.

7. Applying for graduation and paying the $15 graduation fee no later than the official registration day of the quarter in which the candidate plans to graduate. (The application is filed at the Records Office and the fee paid at the Business Office.)

8. Providing a photograph, size not larger than 1½ x 2½ inches, for the files of the Records Office.

9. Registering or revising previous registration with the Placement Bureau.

All requirements are subject to the rules governing residence, transfer of credit, and extension credit.

Graduation Honors

A master's degree candidate who earns a 3.9 grade-point average for the forty-eight quarter hours of his program receives the honors designation "With Distinction." Such honors will be entered on the candidate's diploma and permanent record.

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.

Admission to Candidacy

The student must petition for admission to candidacy. The petition must contain the proposed program of studies and be approved by the student's adviser.

The following additional requirements must be met when the petition is filed, or at least prior to consideration of the petition by the Council on Graduate Studies:

1. The student should have completed 48 quarter hours of his proposed program, but not more than 64 quarter hours.

2. The Graduate Record Examination must be taken. The Examination may be scheduled through the University Testing Services or the Graduate School.

3. Evidence of an evaluation by the department of the student's record to date must be presented. (If a master's degree was taken independently of the Specialist in Education program, the courses taken for the degree will be evaluated and there is no assurance that all credit hours will automatically count toward the Ed.S. degree.)

4. The student must pass a comprehensive examination, either written or oral, or both.

5. Evidence must be presented of approval by the major department's screening committee.

Program of Studies

The courses proposed in the student's program for the Specialist in Education degree must total 96 quarter hours and is divided into Phases I and II as described below. Ordinarily, in the first 48 quarter hours the student will complete the requirements for a master's degree although it is not required that the master's degree be completed within the first half of the total program.

The final 48 quarter hours of the Ed.S. degree program are specifically planned to satisfy certification and accreditation requirements and include the major field and supporting academic minor.

PHASE I. Earning the master's degree with a major in educational administration will usually satisfy this requirement. For details on the program of studies for the master's degree see pages 123-124 of this catalog. The courses for Phase I must total at least 48 quarter hours.

PHASE II. The major field part of Phase II may total 24 or 28 quarter hours. The major department has developed a program of courses not only to meet certification requirements but also to develop further the student's professional competence. This program can be secured from the department.

The academic minor part of Phase II may total 24 or 20 quarter hours, but an academic minor of at least 20 quarter hours must be selected. It is recommended that these courses be taken in fields that will bring greater understanding and support for the major. Recommended are certain courses in the social sciences, business, history, and psychology. For more specific lists of eligible courses, consult with the department.

The courses in Phase II of the Specialist in Education degree program must total 48 quarter hours.

Final Examination

The candidate for the Specialist in Education degree must stand a final comprehensive examination which may be written or oral, or both. This examination is given by a committee appointed by the adviser. The passing of this examination must be certified by the adviser at least two weeks before completion of the requirements for the Ed.S. degree.

Graduation Requirements

The regulations concerning grade requirements and graduation are virtually the same for the Specialist in Education degree as they are for the master's degrees. For details see page 296 in this catalog.

Graduation Honors

Graduation honors will be conferred upon those Specialist in Education degree candidates whose records warrant recognition for distinction. Such honors will be entered on the graduate's diploma and permanent record.

X. Description of Courses

NUMBERING OF COURSES

Courses numbered 100-199 are freshman courses; 200-299, sophomore courses; 300-399, junior courses; 400-499, senior courses. Courses numbered 300-499 are not open to freshmen or sophomores except that courses numbered 300-499 in mathematics, foreign languages, and chemistry may be taken by underclassmen who have completed the prerequisite courses and have obtained the permission of the department.

Courses numbered 100-199 may not be taken for full credit by seniors except for courses in foreign languages. Courses numbered 500-549 are graduate courses open with special permission to seniors.

Courses numbered 550-599 are open only to graduate students and, therefore, may not be used for credit toward a bachelor's degree. Certain courses numbered between 450 and 499 may be taken for credit toward the Master's degree.

ACCOUNTING

(See Business 230, 231, 232, 354, 355, 356, 357, 360, 363, 444, 447, 448, 461, 462, 464, 466.)

ANTHROPOLOGY

(Taught in the Department of Sociology)

UNDERGRADUATE COURSES

273. Introduction to Anthropology. Every quarter. (4 q. hrs.)

A study of the races of the world, pre-literate culture, kinship systems, major institutions and social structure. Students are advised to take this course prior to enrolling in courses in sociology.

360. Peoples and Cultures of South America. (4 q. hrs.) Winter.

The pre-Colombian background; contemporary races, culture and social organization of selected Latin American societies. The emergence of Latin America as a distinct culture area in the modern world.

Prerequisite: Anthropology 273.

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. Summer. (4 q. hrs.)

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

Professors: Countryman (Head), Shull
Associate Professors: Leipholz, Stapp, Trank
Assistant Professors: Emmerich, Hyett, Knoop, Krutza, Settle, Watkins
Instructors: Andermann, DeRuiter, Eads, Hinson, McRoberts, Moldroski, Neitzel, Wilen

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. Every quarter. (4 q. hrs.)

Freehand drawing in various media; studies from nature designed to develop an interpretative approach.

101. Drawing II. Winter and Spring. (4 q. hrs.)

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. Every quarter. (4 q. hrs.)

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. Every quarter. (4 q. hrs.)

Development of three-dimensional organization of forms using various media.

140. Introduction to Art. Every quarter. (4 q. hrs.)

Study of the functions of art in our environment. Studio problems provide creative experiences in designing with a variety of two and three-dimensional media.

Prerequisite: Enrollment in the curriculum for elementary and junior high school teachers. Credit is not granted to students who have received credit in Art 110.

160. Introduction to Visual Arts. Fall and Winter. (4 q. hrs.)

Nature of art as revealed in works of painting, sculpture, architecture, and minor forms of art of men of the past and present.

For art majors and minors only.

205. Painting I. Every quarter. (4 q. hrs.)

Introduction to painting as a medium of expression; variety of approaches and media explored.

Prerequisite: Art 100 or Art 110.

225. Ceramics I. Every quarter. (4 q. hrs.)

Introduction to various hand-building techniques; decorative methods; firing process; use of potter's wheel.

Prerequisite: Art 110 or 111 or 140, or permission of instructor.

244. Art for Teachers in the Elementary Grades. Every quarter. (4 q. hrs.)

Developmental stages of children's artistic activity; motivation, classroom management, and appropriate use of art media for each stage stressed. Studio experiences with wide variety of art media.

Prerequisite: Art 140.

245. Theory and Practice of Art in the Elementary School. Winter. (4 q. hrs.)

Theory of child art such as those of Lowenfeld, McFee, Goodenough, and Arnheim; developments in children's expressions; evaluating children's progress in art.

Prerequisite: Art 244.

247. Theory and Practice of Art in the Junior High School. Spring. (4 q. hrs.)

Basic psychological and physical needs of young adolescents; visual-haptic tendencies; evaluation of student growth; development of sensitivity to aesthetic relationships.

Prerequisite: Art 244.

260. History of Art I. Fall. (4 q. hrs.)

Development of visual arts from pre-historic time to the medieval period; their use by man in his natural and social environment; the architecture, sculpture, painting, weaving, pottery, and other crafts of Egypt, Mesopotamia, Crete, Greece, and Rome.

For art majors and minors only.

261. History of Art II. Winter. (4 q. hrs.)

Art of the medieval period; the Renaissance through the seventeenth century; architecture of the Romanesque and Gothic periods; painting of the Renaissance; brief survey of the art of the Far East.

For art majors and minors only.

262. History of Art III. Spring. (4 q. hrs.)

General survey concerning the artistic achievements of man from the beginning of Mannerism to the present.

For art majors and minors only.

270. Introduction to Jewelry and Enameling I. Every quarter. (4 q. hrs.)

Decorative and constructive processes in the use of silver or other metals; enameling on copper.

Prerequisite: Art 110 or 111 or 140, or permission of instructor.

280. Introduction to Weaving and Textile Design. Every quarter. (4 q. hrs.)

Creative stitchery, block printing, and weaving. Study of the loom, its functions, and possibilities for creative weaving.

Prerequisite: Art 110 or 140.

290. Lettering. Fall. (4 q. hrs.)

Design and formation of basic styles of letters—Roman, Modern, and Text; development of skills of lettering with pen and brush.

300, 301, 302. Drawing III, IV, V. Fall and Winter. (4 q. hrs. for each course.)

Advanced drawing designed to develop individual sensitivity to form in two dimensions; development of an expressive and personal interpretation of dark and light shapes on a flat surface.

Prerequisite: Art 100, 101.

305, 306, 307. Painting II, III, IV. Every quarter. (4 q. hrs. for each course.)

Study of types of painting; craftsmanship and expression in several media stressed through progressive stages of the three courses.

Prerequisite: Art 205.

309. Survey of Two-Dimensional Art. Every quarter. (4 q. hrs.)

Studio experiences in fine, medium, and broad line media to provide the student with basic knowledge of aesthetic expression through experiences in two-dimensional media.

Not open to students whose major is in art.

310, 311, 312. Sculpture I, II, III. Every quarter. (4 q. hrs. for each course.)

Additional work in three-dimensional organization of form; individual concentration toward competent expression in modeling, carving, and constructing.

Prerequisite: Art 111 or Art 225.

319. Survey of Three-Dimensional Art. Every quarter. (4 q. hrs.)

A study of three-dimensionality in art. Studio experiences include work in ceramics, sculpture, jewelry and crafts. Materials, skills and techniques necessary to create three-dimensional art forms.

Not open to students whose major is in art.

325. Ceramics II. Fall. (4 q. hrs.)

Projects in hand building and throwing; study of ceramic bodies such as stoneware, porcelain, white wares.

Prerequisite: Art 225.

326. Ceramics III. Winter and Spring. (4 q. hrs.)

Projects in hand building, throwing, and ceramic sculpture; study of glaze materials and glaze calculations.

Prerequisite: Art 225.

327. Ceramics IV. Spring. (4 q. hrs.)

Projects in hand building, throwing, and ceramic sculpture; study of color in stoneware glazes.

Prerequisite: Art 225.

334. General Crafts. Every Quarter. (4 q. hrs.)

General course in crafts in which students may elect problems from block printing, batik, enamels, jewelry, leathers, mosaics, and glass.

Not open to students whose major is in art.

340. The Teaching of Art. Fall. (4 q. hrs.)

Philosophy of art education; study of the developmental stages of creative activity from the first representational attempts through adolescent art; appropriate use of art media, motivation, and evaluation for each stage.

Prerequisite: Admission to teacher education.

341. Art Education Laboratory. Fall and Spring. (4 q. hrs.)

Studio experiences in techniques and processes and their adaptation to various stages of development, elementary through secondary.

Prerequisite: Art 340.

343. Art Education for Secondary Schools. (Omitted 1966-67.) (4 q. hrs.)

Concerted study of use of certain materials, processes, and projects in the secondary school program; fostering art and art appreciation in the high school.

Prerequisite: Art 340.

356. Print Making I. Fall. (4 q. hrs.)

Survey and laboratory exploration of four methods of printmaking: relief, intaglio, planography, and stencil.

Prerequisite: Art 100 and 101.

357. Print Making II. Winter. (4 q. hrs.)

Intensive exploration of intaglio and serigraphy as two methods of print making; major emphasis on the intaglio method.

Prerequisite: Art 356.

358. Print Making III. Spring. (4 q. hrs.)

Advanced study of the relief and planographic methods of print making.

Prerequisite: Art 356.

360. Understanding Art. Every quarter. (4 q. hrs.)

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.

361. Art in Past Cultures. Winter and Spring. (4 q. hrs.)

Comparative study of subject, form and content in art of past cultures as it relates to purpose and style.

Prerequisite: Art 360. Not open to students whose major is in art.

362. Art Today. Winter and Spring. (4 q. hrs.)

Significance of art in present day living; derivation of contemporary art forms, processes, and techniques of expression.

Prerequisite: Art 360. Not open to students whose major is in art.

363. Classical Art. Fall. (4 q. hrs.)

Greek and Roman art, including architecture, painting, sculpture and the minor arts; study of major figures and dominant stylistic tendencies.

Prerequisite: One course in Art 260, 261, 262, or 360.

364. Medieval Art. (Omitted 1966-67.) (4 q. hrs.)

Arts of the Middle Ages in respect to the Early Christian, Byzantine, Romanesque, and Gothic, emphasizing in particular the transition from pagan art forms to Christian art forms.

Prerequisite: One course in Art 260, 261, 262, or Art 360.

365. Art of the Italian Renaissance. Spring. (4 q. hrs.)

Evolution and development of art forms in Italy during the fifteenth and sixteenth centuries; emphasis on the painting, sculpture and architecture of Florence, Rome, and Venice.

Prerequisite: One course in Art 260, 261, 262, or Art 360.

368. Twentieth Century Painting and Sculpture, 1905-c.1940. (Omitted 1966-67.) (4 q. hrs.)

Major developments, personalities, and significant achievements in painting and sculpture of the twentieth century with emphasis on Picasso, Matisse, Klee, Brancusi, Calder, and Moore.

Prerequisite: One course in Art 260, 261, 262, or Art 360.

370, 371, 372. Jewelry and Silversmithing II, III, IV. Every quarter. (4 q. hrs. for each course.)

Advanced problems in jewelry construction developing previously learned techniques in metal construction or enameling or both; introduction to basic silversmithing processes.

Prerequisite: Art 270.

380. Weaving II. Winter and Spring. (4 q. hrs.)

Experimentation and practice in design and production on various looms; principles of textile construction; materials of the weaver.

Prerequisite: Art 280 or permission of instructor.

390. Commercial Design I. Winter. (4 q. hrs.)

Lettering, posters, layout, current advertising problems. Silk screen, airbrush, and other printing techniques.

391. Commercial Design II. Spring. (4 q. hrs.)

Display advertising; concentration on three-dimensional design.

405, 406, 407. Painting V, VI, VII. Every quarter. (4 q. hrs. for each course.)

Advanced painting in a series of individual problems courses; opportunity for further intensive development of each student's creative expression and craftsmanship.

Prerequisite: Art 305, 306, 307 and permission of the instructor.

410, 411, 412. Sculpture IV, V, VI. Every quarter. (4 q. hrs. for each course)

Advanced study of sculpture with an increasing depth of experience in form and material. Organization of an individual plan of work at a mature level.

425, 426, 427. Ceramics V, VI, VII. Every quarter. (4 q. hrs. for each course.)

Development of techniques and processes to a level of professional attainment; emphasis upon growth in the area in which the student is most interested.

Prerequisite: Art 325, 326, 327 and permission of the instructor.

COURSES OPEN TO JUNIORS, SENIORS, AND GRADUATE STUDENTS

462. Art in America. Fall. (4 q. hrs.)

Architecture, painting, and sculpture from colonial times to the present; emphasis on leading artists and their works as related to historical and sociological events in the growth of America.

Prerequisite: One course in Art 260, 261, and 262, or Art 360.

463. Twentieth Century Architecture. (Omitted 1966-67.) (4 q. hrs.)

Architecture of the twentieth century; its roots in the past, its forms, its materials, its masters, and its social impact.

Prerequisite: One course in Art 260, 261, and 262, or Art 360.

465. The Visual Arts in the Elementary and Junior High School. Spring. (4 q. hrs.)

Our cultural heritage in visual arts for teachers; approaches to fostering appreciation of this heritage.

Prerequisite: Art 244.

469. Seminar in Art History and Criticism. Spring. (4 q. hrs.)

Seminar studies in painting, sculpture and architecture.

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. Materials for Designing I. Fall and Spring. (4 q. hrs.)
Experimentation with various materials, limitations, possibilities, adapted to teaching situations. Problems varied to meet individual needs.

520. Painting Problems I. Fall and Winter. (4 q. hrs.)
Techniques and media used by painters in development of different styles of painting, with opportunity for experience in working in each according to individual choice.

550. Contemporary Trends in Visual Arts. Spring. (4 q. hrs.)
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. Winter. (4 q. hrs.)
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. Fall. (4 q. hrs.)
A study of styles and techniques of contemporary printmakers.
Prerequisite: Two courses in undergraduate printmaking or permission of the instructor.

560. Materials for Designing II. Winter. (4 q. hrs.)
Advanced study of organization of form employing a variety of materials.

561. Advanced Drawing. Winter. (4 q. hrs.)
Development of personal expression in drawing and marking systems.
Prerequisite: Three courses in undergraduate drawing or permission of the instructor.

562. Watercolor. (Omitted 1966-67.) (4 q. hrs.)
Advanced study in various watercolor media.
Prerequisite: Three courses in undergraduate painting.

570. Painting Problems II. Winter. (4 q. hrs.)
Independent study in painting.

571. Painting Problems III. Spring. (4 q. hrs.)
Emphasis is placed upon the construction and development of form.
Prerequisite: Three undergraduate courses in painting.

580. Research in Art Education. Winter. (4 q. hrs.)
Statement, analysis and evaluation of current problems in the teaching of art in the public schools.

591. Problems in Art Education. Every quarter. (4 q. hrs.)
Statement, analysis and evaluation of current problems in the teaching of art in the public schools.

595. Thesis. (4 q. hrs.)

BIOLOGY

(The courses in this section are taught by members of the Departments of Botany and Zoology.)

UNDERGRADUATE COURSES

116. Life Science. Every quarter. (4 q. hrs.)
A survey of the principal structures and processes including genetics and embryology of plant and animals.
No prerequisites. This course is restricted to students in the elementary education and junior high school curricula.

117. Life Science. Fall, Winter and Spring. (4 q. hrs.)
A survey of the identification, natural history, distribution and economic importance of the principal animal and plant groups.
Prerequisite: Biology 116 or equivalent. This course is restricted to students in the elementary education and junior high school curricula.

126, 127, 128. General Biological Science. Fall, Winter, Spring, and Summer. (4 q. hrs. for each course.)
A survey course covering the fundamental structures and processes of plants and animals; genetics, embryology, local flora and fauna are included.
Students who have credit for Biology 126 may not have credit for Botany 120 or Zoology 120. Students who have credit for Biology 127 may not have credit for Zoology 121.

BOTANY

Professors: Damann (Head), Thut
Associate Professors: Arzeni, Whiteside
Assistant Professors: Ebinger, Jeglum, Lackey, R. L. Smith, T. M. Weidner

UNDERGRADUATE COURSES

Botany 120, 121, 222 are designed to meet the laboratory science general requirement and to be basic to further work in botany.

120. General Botany. Every quarter. (4 q. hrs.)

A study of the fundamental processes affecting plants; leaf, stem and root tissues; food manufacture and world food supplies; growth, energy releases, water deficits, and minerals affecting plant development and distribution.

121. General Botany. Every quarter. (4 q. hrs.)

A study of representative members of the Plant Kingdom; their development, environmental requirements and economic importance. Included is an understanding of inheritance by mitosis in vegetative reproduction and meiosis in plant life stories.

Prerequisite: Botany 120.

218. Vegetation of Illinois. Spring and Summer. (4 q. hrs.)

Use of local manuals and keys to identify common plants. A study of ecological relationships by means of field trips, reference readings, and Kodachrome slides; preparation of demonstration material and herbarium specimens.

Prerequisite: Biology 116, 117 or equivalent. Not open to students who have had Botany 120 or 121.

222 (122). General Local Flora. Spring and Summer. (4 q. hrs.)

Plant distribution of North America; identification of trees, shrubs and herbs and the lesser plants by appropriate keys; knowing and appreciating common plants.

Prerequisite: Botany 121, or permission of the instructor.

230. Morphology of Green Plants. Fall and Spring. (4 q. hrs.)

A comparative study of the vegetative structure and life histories of the green plants—algae, liverworts, mosses, ferns and fern allies, conifers, and flowering plants; much living plant material is made available for class study.

Prerequisite: Botany 222.

231. Morphology of Fungi. Winter. (4 q. hrs.)

The structure, life histories and classification of fungi and their economic and ecological importance.

Prerequisite: Botany 222.

232. Economic Botany. Fall and Spring. (4 q. hrs.)

Plant propagation and environmental requirements of the greenhouse and field; plant products and their origins in world commerce and their use in manufacture. Field trips are taken to observe some of these activities.

Prerequisite: Botany 121 or 218.

233 (225). Applied Plant Physiology. Spring. (4 q. hrs.)

Physical processes relating to plant growth and development; water relations; soils and soil formation; mineral nutrition.

Prerequisite: Botany 121. A year of chemistry is recommended.

234. Food and Sanitary Microbiology. Every quarter. (4 q. hrs.)

A course in microbiology for the Home Economics, Health Education, Elementary and Junior High curricula with emphasis on the identification and culture of bacteria, yeasts, molds, etc., and their relation to food preservation and sanitation.

Prerequisite: Sophomore college standing, and 3 quarters of laboratory sciences. Not to count toward a botany major or minor.

335 (235). Bacteriology. Every quarter. (4 q. hrs.)

A study of the occurrence, distribution, and culture of bacteria and other micro-organisms with emphasis on morphology and physiology.

Prerequisite: Botany 120 and junior standing. Botany 121, 230, 231 and a year of chemistry are recommended.

340. Methods of Teaching Biological Science in the High School. Fall, Winter, and Summer. (4 q. hrs.)

The collection and use of materials for demonstration and laboratory experiments are stressed.

Prerequisite: Admission to teacher education and junior standing.

345. Problems in Botany. Any quarter. (4 q. hrs.)

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 with junior standing.

350. Genetics. Winter. (4 q. hrs.)

Problems of heredity in living organisms; Mendelian inheritance, hybrid segregation, fluctuations and mutations and the genetic background necessary to explain inheritance.

Prerequisite: Five quarters of biological science.

COURSES OPEN TO JUNIORS, SENIORS, AND GRADUATE STUDENTS

453 (343). Plant Microtechnique. Winter. (4 q. hrs.)

The techniques of preparing permanent microscopic slides of plant material and an understanding of the part played by staining in producing superior teaching and research material.

Prerequisite: Two years of botany or its equivalent. A year of chemistry is desirable.

454 (344). Experimental Plant Physiology. Fall. (4 q. hrs.)

A qualitative and quantitative study by experiments and demonstrations of the biochemical processes that result in the growth and development of plants and the application of this knowledge in solving plant growth problems.

Prerequisite: Botany 121 and one year of chemistry. Botany 233 recommended.

456 (346). Plant Anatomy. Spring. (4 q. hrs.)

The origin and development of the tissues of leaves, stems, and roots of seed plants; the common ecological variations and hereditary types; wood anatomy and identification.

Prerequisite: Botany 230.

459 (349). Systematic Botany. Fall. (4 q. hrs.)

A detailed study of the Compositae, grasses and grass-like plants of Illinois and current trends in plant classification and plant analysis. Field trips are made for the observation and collection of plants from various habitats.

Prerequisite: Botany 222.

461 (351). Plant Ecology. Spring. (4 q. hrs.)

A study of the major plant formations of North America with emphasis on the factors which influence the development of local communities. Weekend and local field trips are part of the course.

Prerequisite: Botany 222 and two advanced courses in botany or related fields. Botany 454 and 459 are recommended.

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.)

545, 546, 547, 548. Advanced Botany. Any quarter. (4 q. hrs. for each course.)

Advanced work in some special field of botany. The student chooses the area in which he wishes to study, subject to the approval of his adviser.

Prerequisite: At least a minor in botany or its equivalent and the instructor's permission.

550. The Science of Plant Life. Summer 1967. (4 q. hrs.)

Fundamentals of plant science as experienced in everyday living and the common problems of the agriculturist and the home gardener.

Credit applicable only to the Group III requirement for the degree M.S. in Ed.

551. Systematic Botany and Local Flora. Summer 1966. (4 q. hrs.)

Identification of the trees, shrubs, herbs and lesser plants in this area; recognition of the common families of seed plants; appreciation of the plants outdoors and their geographical distribution.

Credit applicable only to the Group III requirement for the degree M.S. in Ed.

552. Microbiology for Everyday Living. Summer 1967. (4 q. hrs.)

A lecture-laboratory demonstration course with field trips to illustrate the application and control of bacteria, fungi, algae and other microorganisms concerned with various aspects of public health as related to food preservation, water purification, sewage disposal, etc.

Credit applicable only to the Group III requirement for the degree M.S. in Ed.

595. Thesis. (4 q. hrs.) Any quarter.

Study and investigation in botany for students electing Plan A paper for the M.S. in Ed. degree.

BUSINESS

Professors: G. K. Cooper (Head, Business Education and Secretarial Studies), Fagan, (Head, Marketing), Giffin (Director)
Associate Professors: Hallam (Head, Management), Roberts
Assistant Professors: Ballsrud (Head, Accounting), Chase, Drew, Gover, Holley, Lahey, Rooke, Sotka, Spaniol, Wyler
Instructors: Meier, Murry, Norem, Psimitis, Sullivan

UNDERGRADUATE COURSES

110. Typewriting. Every quarter. (4 q. hrs.)

Beginning touch typing instruction with emphasis on proper stroking, machine manipulation and placement of material. Minimum speed requirement: twenty words a minute for three minutes with not more than nine errors.

No credit toward graduation for students who have had the equivalent of one semester of typewriting instruction.

111. Typewriting, Continued. Every quarter. (4 q. hrs.)

Development of skill in machine operation and typing of personal letters, business letters, simple manuscripts and tabulations. Minimum speed requirement: thirty words a minute for five minutes with not more than ten errors.

Prerequisite: Business 110 or the equivalent. Not open to students who have had the equivalent of two semesters of typewriting instruction.

112. Typewriting, Continued. Every quarter. (4 q. hrs.)

Business communications problems: typewritten letters, reports, manuscripts, tabulations. Minimum speed requirement: forty words a minute for five minutes with not more than five errors.

Prerequisite: Business 111 or the equivalent. Not open to students who have had the equivalent of three semesters of typewriting instruction.

123. Shorthand. Fall and Winter. (4 q. hrs.)

Beginning instruction in Gregg Shorthand, Diamond Jubilee Series. Principles, brief forms, and phrasing.

Not open to students who have had the equivalent of one semester of shorthand instruction.

124. Shorthand, Continued. Winter and Spring. (4 q. hrs.)

Review of the principles of the system, brief forms, and phrasing. Dictation from familiar material of the Gregg Shorthand, Diamond Jubilee Series.

Prerequisite: Business 123 or the equivalent. Not open to students who have had the equivalent of two semesters of shorthand instruction.

125. Shorthand, Continued. Fall and Spring. (4 q. hrs.)

Vocabulary building. Introduction to transcription. Dictation from new material prepares the student for taking dictation in the business office.

Prerequisite: Business 124 or the equivalent. Not open to students who have had the equivalent of three semesters of shorthand instruction.

140. Business Mathematics. Fall and Spring. (4 q. hrs.)

Basic applications of arithmetic in the business world, percentage in business, elementary algebra in business, interest, basic problems in business ownership, installment buying, and statistics in business.

141. Business Correspondence. Every quarter. (4 q. hrs.)

The construction of effective letters; application letters, sales letters, credit letters, collection letters, adjustment letters, form letters, and business reports. Practice in writing these letters.

Prerequisite: Business 110 or equivalent.

142. Introduction To Business. Every quarter. (4 q. hrs.)

The American business scene; business and society; the nature of business: production, distribution, finance; the business manager as a directing force, his obligations and objectives; career opportunities in business.

210. Advanced Typewriting. Every quarter. (4 q. hrs.)

Remedial and advanced training in speed and accuracy. Study of advanced office projects. Minimum speed requirement: fifty net words a minute for five minutes with three errors or less.

Prerequisite: Business 112 or the equivalent.

211. Advanced Typewriting, Continued. Winter and Spring. (4 q. hrs.)

Speed and accuracy in the production of materials that meet rigid business requirements. Minimum speed requirement: sixty net words a minute for five minutes with three errors or less.

Prerequisite: Business 210 or the equivalent.

212. Office Machines. Every quarter. (4 q. hrs.)

Familiarization with the function, use, and operation of adding and calculating machines, voice-writing equipment, duplicating devices, copying machines, and filing systems.

Prerequisite: Business 111 or permission of the instructor.

223. Advanced Shorthand. Fall and Winter. (4 q. hrs.)

Transcription of business letters from dictated notes. Development of comprehensive vocabulary and ability to take dictation. Minimum speed requirement: eighty words a minute transcribed at not less than fifteen words a minute with 98 per cent accuracy.

Prerequisite: Business 125 or the equivalent and Business 112 or the equivalent.

224. Advanced Shorthand, Continued. Winter and Spring. (4 q. hrs.)

Rapid note taking, accurate transcription, and mailable copies are stressed. Minimum speed requirement: one hundred words a minute transcribed at not less than twenty words a minute with 98 per cent accuracy.

Prerequisite: Business 223 or the equivalent.

225. Secretarial Practice. Spring. (4 q. hrs.)

Professional secretarial levels in taking dictation and transcribing. The role of the secretary in business and the professions. Minimum speed requirement: one hundred twenty words a minute transcribed at not less than twenty-five words a minute with 98 per cent accuracy.

Prerequisite: Business 224 or the equivalent and Business 210 or the equivalent.

230. Accounting. Every quarter. (4 q. hrs.)

The principles of accounting as applied to the sole proprietorship. The balance sheet and income statement lead to the introduction of accounts.

Not open to freshmen.

231. Accounting, Continued. Winter and Spring. (4 q. hrs.)

Accounting as applied to partnerships, with specialized problems.

Prerequisite: Business 230.

232. Accounting, Continued. Spring (4 q. hrs.)

Continuation of specialized accounting problems, including corporation accounting, cost, budgeting, statement analysis.

Prerequisite: Business 231.

247. Principles of Marketing. Every quarter. (4 q. hrs.)

Current marketing channels; marketing functions and institutions; methods used in marketing agricultural products, raw materials and manufactured goods.

248. Principles of Salesmanship. Every quarter. (4 q. hrs.)

The psychology of salemanship as it relates to the planning and execution of a sale; principles of general selling.

249. Principles of Retailing. Every quarter. (4 q. hrs.)

The organization and management of retail stores; location, layout, financing, buying, pricing, credits and collections, stock control, personnel work, business forecasting.

250. Principles of Advertising. Every quarter. (4 q. hrs.)

Social and economic aspects of advertising; kinds of advertising, selection of media; costs; analysis of copy and displays; format; layout; labels; trademarks; slogans; campaigns.

330. Data Processing for Business. Every quarter. (4 q. hrs.)

The nature and function of modern, high speed information handling (data processing) equipment. Includes punched card units and high speed electronic computers with stored program capabilities. Problems on the computers.

331. Data Processing Systems for Business. Every quarter. (4 q. hrs.)

The structure and development of manual, mechanical, and electronic information handling systems. Unit record and computer systems. Basic operational procedures plus the analysis and design of new systems.

Prerequisite: Business 330.

346. Business Law. Every quarter. (4 q. hrs.)

Introduction to law; contracts; agency and employment commercial papers; personal property and bailments.

347. Business Law. Winter and Spring. (4 q. hrs.)

Sales of goods; partnerships; corporations; real property and leases; insurance; security devices; bankruptcy; trusts and estates.

Prerequisite: Business 346.

354. Intermediate Accounting. Fall. (4 q. hrs.)

Review of fundamental processes on a higher level with additions not covered in beginning accounting; cash and temporary investments, receivables, inventories, investments, plant and equipment, intangibles and deferred charges.

Prerequisite: Business 230, 231, 232.

355. Intermediate Accounting, Continued. Winter (4 q. hrs.)

Liabilities both current and long term, capital stock, surplus, statement analysis, statement of application of funds, partnership formation and operation, partnership dissolution and joint ventures.

Prerequisite: Business 230, 231, 232.

356. Advanced Accounting, Continued. Spring. (4 q. hrs.)

Accounting problems of a specialized nature dealing with installment sales, consignments, agency and branch accounts, corporate combination, consolidated balance sheet and income statements, statement of affairs and receivership accounts.

Prerequisite: Business 230, 231, 232, 354, 355.

357. Advanced Accounting. Spring. (4 q. hrs.)

Special problems in accounting including foreign exchange, branch accounting, statement of affairs, receiverships, estates and trusts and governmental accounting.

Prerequisite: Business 355.

360 (460). Cost Accounting. Fall and Spring. (4 q. hrs.)

An introductory course involving principles and methods in handling materials, direct labor and the distribution of overhead expenses. Historical and critical appraisal of product, process cost systems, standard costs.

Prerequisite: Business 230, 231, 232.

363 (463). Accounting for Management. Winter and Spring. (4 q. hrs.)

Analysis and interpretation of financial statements with advanced problems. Particular types of statements as they apply to public utilities, industrials, and moneyed corporations.

Prerequisite: Business 230, 231, 232. Not open to accounting majors.

370. Credit Management. Every quarter. (4 q. hrs.)

Consumer and commercial credit and collection practices and policies in business organizations. Organization and operation of credit departments.

Prerequisite: Business 230, Economics 256, or permission of the instructor.

380. Investments. Fall and Spring. (4 q. hrs.)

Classification and analysis of the contractual features of securities; the mechanics of investment; determination of the qualities of a security; selection of securities for portfolios. Problems of individual and institutional investors.

Prerequisite: Business 230, Economics 255, or permission of the instructor.

383. Business Report Writing. Every quarter. (4 q. hrs.)

The organization and preparation of reports of the types used in education, business, and government. Techniques of collecting, interpreting, and presenting information. Study of actual reports.

430. Data Processing Laboratory. Every quarter. (4 q. hrs.)

Experiences in the processing of information by the use of punched card equipment and computer. Use of the card punch, sorter, reproducer, accounting machine, printer, and the electronic computer.

Prerequisite: Business 330 and consent of the Chairman of the Department of Management.

440. Supervised Experiences in School Business Management. Every quarter. (4 q. hrs.)

School business is studied under the direction and supervision of a school business manager.

Prerequisite: Consent of the Chairman of the Business Education Department.

444. Auditing Practice. Spring. (4 q. hrs.)

Practice in auditing techniques, including report writing and filing with regulatory bodies. Study of auditing standards, professional ethics, legal reponsibility, current auditing trends.

Prerequisite: Business 464.

447. C.P.A. Problems I. Fall. (4 q. hrs.)

Application of accounting principles to problems of a professional level. Analysis and study of representative problems from C.P.A. examinations.

Prerequisite: Business 356.

448. C.P.A. Problems II. Spring. (4 q. hrs.)

A continuation of Accounting 447.

Prerequisite: Business 447.

490. Internship in Business. Arr. (4 q. hrs.)

Employment experience appropriate to the student's major, for one quarter, in a firm approved by the chairman of the student's major department, to be agreed upon by the firm and the department chairman involved.

Prerequisite: Permission of the Department Chairman 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

451. Principles of Management. Every quarter. (4 q. hrs.)

Fundamentals of management: objectives, policies, functions, executive leadership, organization structure and morale; operational procedure and control.

452. Personnel Management. Winter and Spring. (4 q. hrs.)

Objectives, functions, and organization of a typical personnel program. Problems in personnel administration.

453. Office Management. Fall and Spring. (4 q. hrs.)

Duties and responsibilities of the office manager: selection, training, pay and promotion of office employees; controlling office expense; flow of work; purchase and use of office equipment; physical factors; report writing.

458. Case Problems in Business Law. Spring. (4 q. hrs.)

This course assumes that the student has a knowledge and background of the theory of business law. The course deals with the solution of case problems as applied to the various topics in the field of business law.

Prerequisite: Business 346 and 347 or the equivalent.

461. Income Tax Accounting. Winter and Spring. (4 q. hrs.)

The fundamentals of Federal Income Tax Accounting under the latest amendments to the Internal Revenue Code. Income tax blanks and forms are filled in with special emphasis upon the returns of individuals.

Prerequisite: Business 230, 231, 232 or permission of instructor.

462. Managerial Accounting. Spring. (4 q. hrs.)

Accounting, as viewed by the user rather than the supplier of financial data.

Prerequisite: Business 360 or 363.

464. Auditing. Fall and Spring. (4 q. hrs.)

The examination and verification of accounting for the purpose of establishing the reliability of financial statements. Deals with the nature and application of auditing ethics, standards, techniques, procedures, programs, and reports.

Prerequisite: Business 230, 231, 232, 354, 355.

466. Advanced Income Tax Problems and Research. Spring. (4 q. hrs.)

Emphasis on partnership, corporation, fiduciary tax problems. Consideration given to gift, estate, inheritance taxes. Corporate tax case research and report preparation.

Prerequisite: Business 461.

470. Methods of Teaching Bookkeeping and Accounting. Fall and Spring. (4 q. hrs.)

Methods, texts, audio-visual aids, professional organizations and journals are studied. An introduction to teaching experiences. Lectures, discussions, demonstrations and laboratory work to insure mastery of the subject.

Prerequisite: Admission to teacher education.

471. Methods of Teaching Basic Business. Fall and Spring. (4 q. hrs.)

Methods, texts, audio-visual aids, professional organizations and journals are studied. An introduction to teaching experiences. Lectures, discussions, demonstrations and laboratory work to insure mastery of the subject.

Prerequisite: Admission to teacher education.

472. Methods of Teaching Gregg Shorthand. Winter and Spring. (4 q. hrs.)

Texts, audio-visual aids, professional organizations and journals are studied. An introduction to teaching experiences. Lectures, demonstrations and laboratory work to insure proficiency in the subject.

Prerequisite: Admission to teacher education.

473. Methods of Teaching Typewriting and Office Practice. Fall and Winter. (4 q. hrs.)

Methods texts, audio-visual aids, professional organizations and journals are studied. An introduction to teaching experiences. Lectures, demonstrations and laboratory work to insure proficiency in the subject.

Prerequisite: Admission to teacher education.

476. Traffic Management. Spring. (4 q. hrs.)

Transportation facilities and their historical development; comparison of alternative services; transport costs, rates and routes; shipping documents. The scope of traffic management; organization and operation of traffic departments.

Prerequisite: Business 247, 347.

480. Principles of Insurance. Fall and Spring. (4 q. hrs.)

A survey of the risks to which man and property are subject and the elimination of the financial consequences of these risks through insurance coverages. Include life, property, and casualty insurance.

481. Business Statistics. Fall and Winter. (4 q. hrs.)

Provides a working knowledge of the statistical tools used in analyzing business problems. Fundamental phases of statistical technique, as graphic presentations, averages, index numbers, sampling error, and simple correlation.

482. Corporation Finance. Winter and Spring. (4 q. hrs.)

The corporation in a possible life cycle of organization, operation, and reorganization or failure; the various forms of corporate securities; financing the corporation management of income.

Prerequisite: Business 230, 231, 232 and Economics 254, 255, 256, or the equivalent.

484. Commercial Banking. Winter. (4 q. hrs.)

The organization and management of commercial banks. Functions, departments, personnel, policies. The contribution of the modern commercial bank to the community.

Prerequisite: Business 230, Economics 255.

486. Marketing Research. Fall and Spring. (4 q. hrs.)

A basic course. Topics covered are: nature and scope of marketing research; scientific method and research design; specific marketing research procedures; research report, follow-up, and evaluation of research process. Problems.

Prerequisite: Business 247.

487. Market Management Problems. Winter and Spring. (4 q. hrs.)

Marketing problems encountered by businesses that find it necessary to adapt marketing organization and policy to changing economic conditions. Emphasis on the case method in problem analysis.

Prerequisite: Business 232, 247.

498. Readings in Business. Arr. (4 q. hrs.)

Individual study programs. The student will be assigned material from literature of his major field selected in cooperation with the department chairman. 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 Chairman of the Department of the student's major.

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.)

520. Practicum in Data Processing. Summer. (4 q. hrs.)

The nature and function of modern, high speed information handling equipment. Includes unit record and electronic computers. Problems on the equipment, with special emphasis on the development of teaching materials.

Not open to students with credit in Business 330 or 331.

543. Measurement and Evaluation in Business Education. Summer. (4 q. hrs.)

Evaluation and development of guidance materials in business education. Testing techniques and the construction of tests, statistical procedures necessary for test interpretation and use.

544. Foundations in Business Education. Summer. (4 q. hrs.)

The evolution of the business curriculum; large and small high schools. Philosophies and objectives of business education are appraised in terms of business occupational requirements.

545. Problems in Business Education. Summer. (4 q. hrs.)

Current business education problems, such as supervision, administration, curriculum, equipment, standards, viewpoints of national leaders; problems growing out of the particular needs and interests of the students.

550. The Corporation in Society. Summer. (4 q. hrs.)

A course for non-business majors to give an understanding of the corporate form of organization; the genesis of the corporate idea and the adaptation of this idea to the requirements of modern society; implications for the individual and society.

Credit applicable only to the Group III requirements for the degree M.S. in Ed.

595. Thesis. (4 q. hrs.)

Study and investigation in business education for students electing Plan A for the master's degree.

CHEMISTRY

Professors: Baker, Foreman, Marcy, Phipps (Head), R. J. Smith, Steele
Associate Professors: Cunningham, Hamerski
Assistant Professors: Foote, Hoffman
Instructor: N. D. Smith
Faculty Assistant: Tucker

UNDERGRADUATE COURSES

Chemistry 120, 121, and 122 is a year's sequence planned as a general cultural course and to satisfy the general requirement for a year of laboratory science. This sequence also serves as a foundation for further work in chemistry. Students with the necessary background should enroll in Chemistry 150, 151, 152 in place of Chemistry 120, 121, 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.

All courses except Chemistry 300, 342, 420, 421, 491, 556 and 557 have two classes and two two-hour laboratories per week. Chemistry 300 has three classes and individual laboraotry work. Chemistry 491 meets four times weekly. Chemistry 420, 421, 554, 555 have four two-hour periods weekly with conferences.

120, 121, 122. Introductory Chemistry. (4 qr. hrs. for each course.)

A study of the principles of chemistry, the more important nonmetals and a few of the metals. Qualitative analysis is introduced in the third term. The relationship of chemistry to many of today's problems is stressed.

To be taken in sequence. Credit is not granted to students who have received credit for Chemistry 150, 151, 152.

150, 151. General Chemistry. Fall and Winter. (4 q. hrs. for each course.)

The principles of chemistry are studied with emphasis on bonding, stoichiometry, states of matter, kinetics and equilibrium.

Prerequisite: One unit of high school chemistry which included laboratory work and in which the grade B or A was earned, plus two and a half units of mathematics with C+ or better average.

To be taken in sequence. Credit not granted to students who have received credit in Chemistry 120, 121, 122.

152. General Chemistry and Qualitative Analysis. Spring. (4 q. hrs.)

A continuation of Chemistry 150, 151 with emphasis on ionic equilibrium and qualitative analysis.

Prerequisite: Chemistry 151.

Credit is not granted to students who have received credit in Chemistry 122.

153, 154, 155. Elementary and Organic Chemistry for Majors in Home Economics. 153, Fall. 154, Winter, and 155 Spring. (4 q. hrs. for each course.)

The principles of chemistry and some of the common elements, including carbon, are studied. Chemistry 155 introduces organic chemistry necessary for the understanding of carbohydrates, fats, proteins, textiles, dyes and plastics.

Restricted to home economics majors. To be taken in sequence.

234. Elementary Quantitative Analysis. Every quarter. (4 q. hrs.)

The general principles of volumetric and gravimetric analysis;

critical evaluation of analytical data; theory of neutralization reactions; extensive treatment of problems illustrating each topic.

Prerequisite: Chemistry 122 or 152; Mathematics 131.

235. Quantitative Analysis. Winter. (4 q. hrs.)

A continuation of Chemistry 234. Experiments include oxidation-reduction and precipitation titrations, additional gravimetric determinations, an electrodeposition and a brief introduction to instrumental analysis.

Prerequisite: Chemistry 234.

300. Photography. Spring. (4 q. hrs.)

The theory and use of the camera, types of emulsion, latent image, development, fixation, printing, enlarging, toning, filters, color photography, composition. Experiments are assigned in accordance with experience and ability.

Prerequisite: One year of college laboratory science and a camera. The student is to purchase the paper and film he uses. This course does not count toward a major or minor in chemistry.

330. Quantitative Analysis. Spring or Fall. (4 q. hrs.)

A study of the principles and practice of gravimetric and volumetric analysis, chemical stoichiometry and the evaluation of analytical data.

Prerequisite: Chemistry 122 or 152, 343.

Required of chemistry majors. Open to majors in mathematics and physics. Others with permission of department head. Credit not granted to students who have received credit in Chemistry 234.

342. Practicum in Chemistry. Every quarter. (1 q. hr.)

This course is designed to afford the future chemistry teacher some practical experience in laboratory teaching and in servicing the laboratory. Two hours are to be spent assisting in an elementary chemistry laboratory and two hours in the storeroom each week.

Prerequisite: Two years of college chemistry.

Required of Chemistry majors in the junior year of B.S. in Ed. curriculum. Should be completed prior to student teaching.

343, 344, 345. Organic Chemistry. Chemistry 343, 344, Every quarter; Chemistry 345, Spring. (4 q. hrs. for each course.)

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.

356. Biochemistry. Spring. (4 q. hrs.)

A brief survey of the chemistry of biologic materials, of cellular nutrition and the biological function of carbohydrates, lipids, proteins, and nucleic acids.

Prerequisite: Chemistry 234 and 344 or their equivalent.

361. Modern Inorganic Chemistry. Spring. (4 q. hrs.)

A study of the structures and reactions of inorganic compounds with particular emphasis on chemical bonding and coordination theory. The laboratory work consists of the preparation of some representative compounds.

Prerequisite: Five quarters of college chemistry.

420, 421. Special Problems. Every quarter by arrangement. (4 q. hrs. for each course.)

Laboratory problems selected in terms of the student's training and interest in some field of chemistry. Laboratory work, use of chemical literature and conferences with the instructor. Results are to be presented in the form of a written report, one copy of which is to be filed with the department office.

Prerequisite: Permission of instructor and department head.

COURSES OPEN TO JUNIORS, SENIORS, AND GRADUATE STUDENTS

470. Instrumental Methods in Chemistry. Winter. (4 q. hrs.)

The principles involved in using various instruments and the techniques required for making chemical measurements. Study includes such subjects as colorimetry, chromatography, spectrophotometry, polarography, etc.

Prerequisite: Chemistry 235 and 343.

491, 492, 493. Physical Chemistry. Fall, Winter, Spring. (4 q. hrs. for each course.)

A study of the principles governing chemical change. Included are: thermodynamics; equilibria; kinetic theory; the gaseous, liquid and solid states; solutions; atomic and molecular structure; electrochemistry, quantum theory and chemical kinetics.

Prerequisite: Chemistry 234. Mathematics 235, 236 or simultaneous registration therein. To be taken in sequence.

494. Nuclear Chemistry. (Omitted 1966-67.) (4 q. hrs.)

Radioactivity and the radioactive properties of isotopes are studied in relationship to their chemical properties and uses.

Prerequisite: Five terms of chemistry including 234 and/or 361, or permission of 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.)

500. Seminar. (Omitted 1966-67.) (2 q. hrs.)

Reports and discussion of topics selected from recent developments in chemistry.

Prerequisite: Chemistry 234 and 344, and permission of the head of the department.

501. History of Chemistry. (Omitted 1966-67.) (4 q. hrs.)

The sources of chemical information including abstracts, journals, texts and reference works are consulted in the study of the historical development of chemistry.

536. Biological Chemistry. Spring. (4 q. hrs.)

A course designed to study the chemistry of biological materials and processes, including the metabolism of carbohydrates, lipids, proteins and nucleic acids, their structures and functions.

Prerequisite: Chemistry 234 and 344 or their equivalent, or by permission of the head of the department.

540 (480). Organic Mechanisms and Preparations. (Omitted 1966-67.) (4 q. hrs.)

A study of the mechanisms of reactions in organic chemistry through the preparation of selected compounds.

Prerequisite: Chemistry 234, 344.

556, 557 (450, 451). Advanced Chemistry. Every quarter by arrangement. (4 q. hrs. for each course.)

A problem is selected in the area of the student's major interest after consultation with the department head and the instructor. The methods used in solving scientific problems are developed through the use of literature, laboratory and consultations.

Prerequisite: Consent of the head of the department.

595. Thesis. (4 q. hrs.)

ECONOMICS

Professors: McConkey (Head), Plath
Associate Professor: Murad
Assistant Professors: Burke, Hooks, Kesler
Instructor: Roderick

UNDERGRADUATE COURSES

254. Principles of Economics. Every quarter. (4 q. hrs.)

The nature of economics, the American economic system, business organization, personal finance, labor-management relations, government finance, national income analysis.

Not open to freshmen.

255. Principles of Economics (continued).

Every quarter. (4 hrs.)

Business cycles, money and prices, banking and monetary policy, fiscal policy, supply and demand analysis.

Prerequisite: Economics 254.

256. Principles of Economics (continued).

Every quarter. (4 q. hrs.)

Theory of production and factoral distribution, international economics, problems of economic growth and price stability.

Prerequisite: Economics 255.

320. International Economics. Winter. (4 q. hrs.)

Principles of foreign trade and lending, the nature of international payments, tariffs and quotas, commercial policies currently being followed by the major countries participating in the world economy.

Prerequisite: Economics 254, 255, 256 or consent of the instructor.

356. Government and Business. Fall. (4 q. hrs.)

The market structures in which business operates; public policies for regulation and control of those markets.

Junior standing required.

357. Labor Economics. Fall and Spring. (4 q. hrs.)

An intensive study of labor as a factor in the economic system; history of the labor movement; technique and objective of labor organization; fundamental issues in labor-management disputes; labor legislation.

358. American Economic Development. Fall. (4 q. hrs.)

A study of the economic development of the United States, with special emphasis upon our basic economic organizations, such as the business enterprise, the labor union, and the economic functions of government.

Prerequisite: Economics 254, 255, 256.

COURSES OPEN TO JUNIORS, SENIORS, AND GRADUATE STUDENTS

453. Comparative Economic Systems. Winter. (4 q. hrs.)

A comparative study of the origin, organization, operation, and achievements of the systems of capitalism, socialism, communism, and fascism.

Prerequisite: Economics 254, 255, 256 or consent of the instructor.

454. History of Economic Thought. Winter. (4 q. hrs.)

The ancient world; scholasticism; mercantilism; the physiocrats; Adam Smith and classical economics; Marx; Veblen; Keynes.

Prerequisite: Economics 254, 255, 256.

460. Intermediate Economic Analysis. Fall. (4 q. hrs.)

A study of commodity and factor price theory.

Prerequisite: Economics 254, 255, 256.

461. Statistics and Research Techniques in the Behavioral Sciences. Spring. (4 q. hrs.)

Programmed as Social Science 461.

462. Economic Stability and Growth. Winter. (4 q. hrs.)

An analysis of factors affecting the level of national economic activity, its fluctuation, and rate of increase.

Prerequisite: Economics 254, 255, 256.

465. Economics of Underdeveloped Areas. Spring. (4 q. hrs.)

An intensive study of the economic structures of the underdeveloped areas of the world. An analysis of the causes of their continuing low levels of output will be followed by an examination of the policy alternatives open to them for the development of their economies.

Prerequisite: Economics 254, 255, 256 or consent of the instructor.

480. Money and Banking. Winter and Summer. (4 q. hrs.)

An intensive study of money and banking and their importance in our economy; government monetary and banking policy and its significance to economic well-being.

Prerequisite: Economics 254, 255, 256.

485. Public Finance. Fall and Spring. (4 q. hrs.)

A study of taxation, government spending, public debt and their importance to economic welfare.

Prerequisite: Economics 254, 255, 256 or consent 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.)

550. The Soviet Economy. Spring and Summer. (4 q. hrs.)

Emphasis will be given to the current and historical economic factors which have given rise to the phenomenal development of the Soviet economy.

Credit applicable only to the Group III requirement for the degree M.S. in Ed.

EDUCATION

Professors: A. U. Edwards, C. R. Garner, Matzner, McKenna, Moler (Chairman, Guidance and Counseling), Schaefer (Dean), Stockman
Associate Professors: Corey, Crane, Grado, C. K. Green, Knapp, Schenke, Shuff (Chairman, Administration and Supervision), Zabka
Assistant Professors: Larson, Overton

COORDINATORS OF TEACHING PRACTICUM

Associate Professors: Erwin, McDonald, James H. Robertson
Assistant Professors: Bally, Chase, Elmore, Emmerich, Hancock, Hoffman, Lackey, Lahey, Pettypool, Spaniol, Starck, Twenter
Instructors: Hockman, Jorgenson, Leathers, Pierson, John H. Robertson, VanDeventer

UNDERGRADUATE COURSES

120, 121. Laboratory in Education. Every quarter. (1 q. hr.)

A laboratory course with emphasis on directed observations and individualized experiences with children of pre-school and elementary school ages, under a variety of environmental conditions.

Required of and restricted to freshmen and transfer students in the elementary education curriculum.

232. Human Growth, Development, and Learning. Every quarter. (4 q. hrs.)

Physical, social, emotional, and intellectual growth and development of children and adolescents with an emphasis upon learning.

Prerequisite: Psychology 231. Restricted to students in elementary, junior high, and dietetics curricula.

311. Directing Learning in the Junior High School. Fall. (4 q. hrs.)

Selection, organization, presentation of learning experiences and evaluation; application of principles of learning, classroom management, guidance as applied to junior high school organization; teacher relationships to staff, home, and community.

Prerequisite: Education 232 and admission to teacher education.

312. Instructional Media in the Junior High School. Fall. (4 q. hrs.)

Nature, purpose, current trends in developmental reading programs in junior high school. Development of skill and appreciation of values, uses, and sources of instructional materials and equipment.

Prerequisite: Education 232 and admission to teacher education.

313. Teaching Social Studies and Language Arts in the Junior High School. Winter. (4 q. hrs.)

The objectives of social studies and language arts programs exclusive of reading; the nature, selection, and utilization of materials, methods, and content with emphasis upon integration of the two areas.

Prerequisite: Education 311 and admission to teacher education.

314. Teaching Mathematics and Science in the Junior High School. Spring. (4 q. hrs.)

The nature and scope of materials and methods in teaching mathematics and science, with concern for the posssibilities of correlation of the two areas.

Prerequisite: Education 311 and admission to teacher education.

324. Directing Learning in the Elementary School. Every quarter. (4 q. hrs.)

Selection, organization, presentation of learning experiences; emphasis on application of principles of learning, instructional programs, classroom management, guidance, evaluation; teacher relationship to staff, home, community, and the profession.

Prerequisite to student teaching. Prerequisite: Education 232 and admission to teacher education.

327. Elementary Curriculum: Teaching Social Studies and Language Arts; Use of Instructional Materials in the Elementary School. Every quarter. (4 q. hrs.)

Objectives, techniques, and materials of social studies and language arts excluding reading and children's literature; instruction in handwriting is included. Patterns of curriculum organization, unit teaching, selection and utilization of instructional materials and equipment.

Prerequisite: Education 324 and admission to teacher education.

328. Developmental Reading in the Elementary School. Every quarter. (4 q. hrs.)

Basal reading program from kindergarten through junior high school; nature, purpose, and current trends in reading instruction; guiding principles, types of reading materials, techniques; evaluating progress.

Prerequisite: Education 324 and admission to teacher education.

329. Science in the Elementary School. Every quarter. (4 q. hrs.)

Selection and development of units, demonstrations, and laboratory work.

Prerequisite: Biology 116, 117; Physical Science 100, 101; Education 324; admission to teacher education.

332. Educational Psychology. Every quarter. (4 q. hrs.)

Individual growth and development with emphasis upon the secondary student, learning theories and ways of facilitating the learning process, measurement and evaluation with emphasis upon standardized testing.

Prerequisite: Psychology 231 and admission to teacher education.

333. The Instructional Task in the Secondary School. Every quarter. (4 q. hrs.)

Secondary school teaching as a profession; the secondary curriculum, guidance in the secondary school; selection and use of instructional material; the development of a secondary reading program.

Prerequisite: Education 332 and admission to teacher education.

334. Kindergarten Education. Winter and Spring. (4 q. hrs.)

Aims, organization, equipment and curriculum for nursery school and kindergarten, including recent trends and techniques. Prerequisite to teaching practicum in kindergarten.

Prerequisite: Education 324 and admission to teacher education.

441, 442, 443, 444. Teaching Practicum in the Elementary or Secondary School. Every quarter. (4 q. hrs. for each course.)

Twelve quarter hours of the teaching practicum are required for the Bachelor of Science in Education degree. Majors in secondary school curricula must take at least 4 quarter hours, preferably 8 quarter hours, of teaching practicum in major field.

Prerequisite: See Admission to Teaching Practicum.

443L. Professional Laboratory Experiences. Summer. (4 q. hrs.)

Laboratory experiences adapted to the needs of experienced elementary school teachers. Opportunity is provided for study of teaching through observations, discussions, and readings. Under certain conditions, this course may be substituted for Education 443.

Prerequisite: Education 441 and 442, permission of instructor and Director of the School of Elementary and Junior High School Teaching.

445. Philosophy and History of Education. Every quarter. (4 q. hrs.)

The chronological development of the main philosophical principals of modern educational practices.

Prerequisite: Admission to teacher education. Not open to students who have credit in Education 343 or 440.

COURSES OPEN TO JUNIORS, SENIORS, AND GRADUATE STUDENTS

460. Problems in Secondary Education. (Omitted 1966-67.) (4 q. hrs.)

Concerned with specific problems in the evolution of secondary education, student activities, curriculum, guidance, and evaluation. Each student is assigned an individual problem.

Prerequisite: Twelve quarter hours in education and psychology.

464. History of Education in the United States. Summer. (4 q. hrs.)

The colonial roots of pluralism; the single-track system; expansion of institutions and enrollments; and modern cross-currents.

Prerequisite: American history. Admission to teacher education.

465. Special Educational Problems. (On demand.) (4 q. hrs.)

Provides the student an opportunity for investigation and analysis of elementary or secondary school problems of a significant nature.

Prerequisite: Junior standing or experience in teaching and permission of the instructor.

466. Modern Trends in Education. (Omitted 1966-67.) (4 q. hrs.)

Study of changes, trends, and problems in modern education with emphasis on underlying theories. Each student chooses for intensive study a problem of particular interest to him.

Prerequisite: Twelve quarter hours in education and psychology; admission to teacher education.

471. Teaching of Social Living in the Elementary School. Summer 1967. (4 q. hrs.)

A course in methods and materials related to teaching social living. Designed to aid teachers, supervisors, and administrators in understanding the role of history, civics, geography, and the natural sciences as interacting factors in solving social problems.

Prerequisite: Twelve quarter hours in education and psychology.

477. The Junior High School. (Omitted 1966-67.) (4 q. hrs.)

A course concerned with certain aspects of junior high school education—historical development, basic philosophy, practices.

Prerequisite: Twelve quarter hours in education and psychology, including Education 232 or 332 and Education 324 or 333.

484. Photography in Audio-Visual Education. Fall. (4 q. hrs.)

Photographic techniques for making materials for use in classroom instruction, community resources and school public relations. Emphasis will be upon obtaining materials for prints, color slides and large transparencies to be used in the classroom.

485. School Law. Spring; Summer. (4 q. hrs.)

A course designed to develop an understanding of the basic legal factors related to the school. Professional and extra-legal controls are also considered.

Prerequisite: Twelve quarter hours in education and psychology.

487. Introduction to Audio-Visual Education. Fall, Spring, Summer. (4 q. hrs.)

Theory and principles for use of audio-visual materials in teaching. Experiences are provided in the operation, selection, and utilization of audio-visual aids.

Prerequisite: Twelve quarter hours in education and psychology.

488. Preparation and Use of Instructional Materials. Summer. (4 q. hrs.)

Production of locally prepared audio-visual materials using the techniques of mounting, lettering, and reproducing by pictorial or graphic means. Emphasis is upon improving communication in the learning process.

Prerequisite: Twelve quarter hours in education and psychology.

490. Principles and Techniques of Guidance. Fall, Winter, Summer. (4 q. hrs.)

An introductory course; principles and purposes underlying guidance activities; means by which guidance activities may be carried on in the school system.

Prerequisite: Twelve quarter hours in education and psychology.

GRADUATE COURSES

(Courses numbered 500-549 inclusive may be taken by a senior whose grade point average is 3.0 of higher, with permission of the instructor and the Dean of the Graduate School. Courses numbered 550 and above are open only to graduate students.)

520. Television in Education. Summer. (4 q. hrs.)

Methods and techniques for effective instruction by means of open and closed-circuit television. Consideration will be given to the adaptation of television to school curricula. Sources of programs for school use will be explored. Evaluation of kinescopes, broadcast programs, and closed-circuit usages will be conducted.

521. Audio-Visual Systems. Spring. (4 q. hrs.)

Theory and principles in use of various systems such as teaching machines and programmed learning, filmed courses, taped courses, language laboratory programs. Emphasis is on the position of these systems in the curriculum and their influence on the curriculum and the teaching-learning situation.

527. Reading Instruction in the Junior and Senior High School. Summer 1967. (4 q. hrs.)

A systematic study of the objectives, methods, materials, and organization of junior and senior high school reading programs.

Prerequisite: 16 hours of education and psychology.

528 (469). Problems in the Teaching of Reading. Fall and Spring; Summer. (4 q. hrs.)

A study of the types of reading and study difficulties; methods of diagnosis and remedial work useful to classroom teachers and supervisors. Experience with children in clinic whenever possible.

Prerequisite: Sixteen quarter hours in education and psychology.

540 (459). Advanced Educational Psychology. Fall. (4 q. hrs.)

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.

543. Measurement and Evaluation. Summer. (4 q. hrs.)

Nature and use of standardized tests. Sources of test information, statistical concepts and devices used in measurement of achievement, evaluation of reliability and validity data and the interpretation of scores and profiles. Test planning, item construction and analysis assignment of marks.

Prerequisite: 8 q. hrs. in Human Growth and Development, and/or Psychology.

544. Educational Statistics. Summer 1967. (4 q. hrs.)

Fundamentals of statistics and their application.

Prerequisite: Twelve quarter hours in education and psychology.

550. Principles of Curriculum Development. Every quarter. (4 q. hrs.)

Basic concepts underlying curricula; processes used in curriculum development. Building of evaluative criteria for analyzing current and proposed curricula.

Credit applicable to Group I of the requirements for the degree M.S. in Ed.

551. Social Foundations of Education. Fall; Summer. (4 q. hrs.)

Some of the effects of cultural patterns, economic changes, social stratifications, community and institutional organizations.

Credit applicable to Group I of the requirements for the degree M.S. in Ed.

552. Understanding the Individual. Every quarter. (4 q. hrs.)

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. Winter; Summer. (4 q. hrs.)

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. Spring, Summer. (4 q. hrs.)

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.

558. Child Study for the Elementary School Teacher. Summer 1967. (4 q. hrs.)

A study of the behavior of children as influenced by the impact of factors: physical, family relationships, cultural, social concepts (self), school experiences. Various child study techniques employed in gathering and handling child data for child study problems in the classroom.

Prerequisite: Education 232 or equivalent. 16 q. hrs. in Education and child psychology. Limited to experienced teachers working with children.

560. Introduction to Research in Education. Every quarter. (4 q. hrs.)

The nature and responsibilities of advanced professional study. Gives experiences in locating and defining problems, in using research techniques, in writing in acceptable form, and in interpreting and evaluating research.

Prerequisite: Sixteen hours of education and psychology.

561. Advanced Developmental Reading. Winter and Summer. (4 q. hrs.)

A study of the educational and psychological backgrounds of reading instruction. Emphasis is placed upon the nature of the reading instruction, programs of instruction, and methods and materials.

Prerequisite: Education 328 or equivalent.

562. Remedial Reading Practicum. Spring and Summer. (4 - 8 q. hrs.)

Supervised practice in working with individual students in remedial reading situations. Practice will be provided using students from the laboratory school or from schools of the surrounding area.

Prerequisite: Education 528 and permission of instructor.

563. Supervision and Curriculum in Reading. Summer 1967. (4 q. hrs.)

A study of selected curriculae and the planning of a sound school curriculum in reading; an understanding of the functions and duties of the reading supervisor or consultant and the effective ways of implementing them.

Prerequisite: Developmental Reading (Education 328) or Education 561.

564. Teaching and Supervision of Social Studies in Elementary Schools. Summer. (4 q. hrs.)

A study of the objectives, the scope and sequence of content in teaching social studies in elementary schools. Consideration is given to methods and techniques used in providing for individual differences through the effective use of concrete experience, audio-visual materials, group dynamics, reading, and evaluation.

565 (470). Language Arts in the Elementary School. Spring. (4 q. hrs.)

A critical review of objectives proposed for language arts instruction (exclusive of reading and children's literature) with emphasis on their implications concerning organization of the program, content, materials, and procedures.

Prerequisite: Twelve quarter hours in education and psychology.

566. The Science Curriculum in the Elementary School. Summer. (4 q. hrs.)

A course to help the elementary teacher, the elementary supervisor, and the elementary principal improve the elementary science curriculum. Scope and sequence of elementary school science; revision of existing science curricula; selection of materials for teaching the revised elementary science curricula.

Prerequisite: 8 q. hrs. of biological science, 8 q. hrs. of physical science, and Education 329 or permission of the instructor and the Dean of the Graduate School.

567. Advanced Laboratory in Elementary Education. Summer. (4 - 8 q. hrs.)

A course designed for the study of educational problems, new trends and developments in areas of curriculum instructional materials, methods, techniques, using observations and demonstrations in the Laboratory School with analysis of instructional media and pertinent published research.

Prerequisite: 8 q. hrs. in graduate courses in elementary education.

568. Guiding Student Teaching. Summer 1967. (4 q. hrs.)

Theories, training programs and practices, and research findings in the field of teacher education with a major emphasis upon professional laboratory experiences. Limited to prospective college supervising teachers, coordinators, and co-operating teachers actively engaged in student teaching programs.

570. Psycho-Social Development in Childhood. Spring. (4 q. hrs.)

A discussion of psychological and cultural forces which shape the behavior patterns of the growing child.

Prerequisite: Sixteen hours of education and psychology.

571. Psycho-Social Development of the Adolescent and Young Adult. Fall. (4 q. hrs.)

A discussion of psychological and cultural forces which shape the behavior patterns of the growing child.

Prerequisite: Sixteen hours of education and psychology.

572. Measurement Applied to Guidance. Fall, Winter, Summer. (4 q. hrs.)

A study of the selection, administration, scoring, and interpretation of standardized tests and other measuring techniques suitable for use in guidance programs.

Prerequisite: Sixteen hours of education and psychology.

573. Play Therapy. (Omitted 1966-67). (4 q. hrs.)

The importance of play in education; discussion of theories and values of play; using play as therapeutic treatment.

Prerequisite: Education 574 and 593.

574. Personality Dynamics. Fall, Spring, Summer. (4 q. hrs.)

A study of the nature of personality and of various theories of personality with attention given to techniques of personality evaluation.

Prerequisite: Sixteen hours of education and psychology.

576. Student Personnel Work in Higher Education. Spring. (4 q. hrs.)

A study of the backgrounds of personnel functions in higher education including specific reference to such problems as admissions, discipline, student activities, housing, scholarship programs.

Prerequisite: Education 590.

577. Residence Hall Personnel Work. Winter. (4 q. hrs.)

A study of the functions of persons charged with managing and supervising university residence halls including administrative, business, counseling, and teaching duties.

Prerequisite: Education 490.

578. Theories of Aptitudes and Abilities. Summer. (4 q. hrs.)

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. Independent Study in Guidance. (On demand.) (4 q. hrs.)

Intended to permit a student to pursue more intensively various aspects of the area of his special interest.

Prerequisite: Education 590. Permission of the department.

580 (480.) School Organization and Administration. Fall; Summer. (4 q. hrs.)

Educational administration in social and historical perspective; authentication of principles of administration; application of principles; legal structure of education as a state function.

Prerequisite: Twelve quarter hours in education and psychology.

581. School Supervision—A Group Process. Fall; Spring; Summer. (4 q. hrs.)

The origin and development of the supervisory function. The roles of teachers, supervisors, and administrators in the practical application of theories of supervision.

Prerequisite: Education 550.

582 (481.) Work of the Principal in the Modern School. Winter; Summer. (4 q. hrs.)

A basic professional course for the principalship in either the elementary or secondary school. The discussion, materials, and assigned problems are adapted to the interests and needs of the individual student.

Prerequisite: Twelve quarter hours in education and psychology, Education 580.

585. School Plant Planning. Winter. (4 q. hrs.)

Covers concepts and procedures for relating proposed school plants to the instructional program and community resources. Considers site selection, financing, legal requirements and the administration of the building program.

Prerequisite: Education 580 or equivalent.

586. School Finance. Spring. (4 q. hrs.)

A study of the legal basis for the support of public school, school revenues, and the expenditures of school funds, and an introduction to the concepts which underlie the accounting required for such funds.

Prerequisite: Education 580 or equivalent.

589 (489.) Special Problems in Audio-Visual Education. Winter. (4 q. hrs.)

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. Winter; Summer. (4 q. hrs.)

A course in theory and practices of counseling with emphasis upon the duties of the school counselor.

Prerequisite: Education 490.

591. Organization and Administration of Guidance and Personnel Services. Spring. (4 q. hrs.)

Principles and current trends in organization and administration of school guidance programs; types of organizations, public relations, integration of guidance services and curriculum.

Prerequisite: Education 490.

592. Occupational, Educational, Personal, and Social Information. Winter; Summer. (4 q. hrs.)

A study of sources, evaluation, and use of occupational, educational, personal, and social information. Employment conditions, job requirements and training facilities.

Prerequisite: Education 490.

593. Counseling Practicum. Fall; Spring; Summer. (4 q. hrs.)

Supervised practice in counseling individual students. Practice provided at the level of the graduate's primary interest.

Prerequisite: Education 590, 592.

594. Principles and Techniques of Group Guidance. Spring. (4 q. hrs.)

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. (4 q. hrs.)

596. The Junior College Movement. Winter. (4 q. hrs.)

History of the junior college movement in the United States with special attention to problems and issues affecting junior colleges in Illinois. Research is utilized in examining the extent to which the junior college is achieving its stated objectives.

Prerequisite: Sixteen hours of education and psychology.

597. Seminar in Guidance. Winter, Summer. (4 q. hrs.)

Discussion of current problems and trends in guidance. Critical examination and evaluation of current literature in the field.

Prerequisite: Education 590 and 592.

600 (580.) Problems in School Administration. Fall; Summer. (4 q. hrs.)

An advanced seminar in problems of significance to educational administration.

Prerequisite: At least 12 credits in administration and supervision plus completion of Group I courses.

601, 602. The Field Experience in Administration. Every quarter. (4 q. hrs. for each course)

The field experience is designed to provide a comprehensive experience planned by the student's committee and the supervising administrator. Evaluation and supervision is the responsibility of the advisor.

Prerequisite: Admission to Candidacy for the Certificate of Advanced Study and approval of the department.

690. Field Study in Guidance. (Internship.) (4-8 q. hrs.)

Supervised experience in all services normally considered a part of the guidance program.

Prerequisite: Education 593 and approval of the department.

ENGLISH

Professors: Blair, Brooks, Ekeberg, E. C. Kelly, Kline, Palmer, Rommel, Waffle (Head), Wharton

Associate Professors: Batzer, V. Johnson, Kelleher, Mather, R. N. Pollard, Steinmetz, Tycer, Walker, White

Assistant Professors: Colby, J. Cooper, Eapen, Kagan, McColl, Thornburgh

Instructors: Dvorak, Leathers, W. D. Miller, Nelson, Parks, R. G. Richardson, K. W. Robertson, Silverstein, Wagenheim, Zuger

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.

Demonstration of English Proficiency. A demonstration of English proficiency is prerequisite to graduation. Students who have passed the Junior English Examination prior to September 1, 1964, will be considered as having met this requirement. Other students are required to demonstrate proficiency in one of the following ways.

1. A student whose average in English 120 and 121 is "B" or higher is considered as having met the requirement.
2. A transfer student who has met the requirement for exemption from English 220 has satisfied the requirement.
3. A student enrolled in English 220 who achieves a grade of "C" or "AC" on the departmental examination has met the requirement.

4. A student in a curriculum which does not require English 220 can satisfy the proficiency requirement by taking the departmental examination in English 220 and making a grade of "C" or "AC". A student who wishes to do this must register with the English Department two weeks prior to the beginning of the final examination period.

UNDERGRADUATE COURSES

120. Composition. Every quarter. (4 q. hrs.)

A basic course in communication, including listening, reading, speaking, and writing. Many short themes required to develop facility in writing correct, effective sentences and paragraphs. Some study of rhetorical and grammatical principles.

121. Composition. Every quarter. (4 q. hrs.)

Further study of rhetoric and grammar. Longer units of composition in which problems of organizations, coherence, and unity are studied. One research paper required in addition to shorter themes.

Prerequisite: English 120.

123. Story-Telling. (Omitted 1966-67.) (4 q. hrs.)

Theory and practice in telling stories to children of different ages.

126. Grammar. Fall, Winter and Spring. (4 q. hrs.)

A study of the English sentence, with some attention to the parts of speech. This is primarily a course for those preparing to teach in the upper grades or in junior or senior high school English, but is open to any student.

220. Composition. Fall, Winter and Spring. (4 q. hrs.)

Additional practice in composition, intended to strengthen the student's competence in clear and forceful writing.

Prerequisite: English 120, 121, and sophomore standing.

226. The Structure of the English Language: Phonology and Orthography. Fall, Winter and Spring. (4 q. hrs.)

Phonetics, phonemics, supra segmentals of stress and pitch; dialectology, including culturally deprived, British and American "correctness," and pronouncing dictionaries. History of Roman alphabet, of continental and English orthography; graphemics. Applied linguistic theories of reading.

227. The Structure of the English Language: Morphology and Syntax. Winter. (4 q. hrs.)

A study of morphemics, morphology, basic structures of syntax.

Traditional vocabulary (conjugation, etc.). Sound and form change by contact (sandhi, assimilation, etc.). Vocabulary formation (borrowing, derivation, etc.). "Correctness" in agreement, etc.; dialectology and "grammars" of English.

228. The Structure of English: History of the Sound System, the Word System, the Syntactical Systems. Spring. (4 q. hrs.)

English sounds and dialects, words, sentences, vocabulary formation in 800, 1400, 1600, and 1960 A.D. General linguistic change and major events: coming of Indo-Europeans, American settlement, etc. American and world dialects. History of dictionary making; dictionaries today.

245. A Survey of English Literature I. Fall and Winter. (4 q. hrs.)

English prose and poetry (including drama) from *Beowulf* to Bunyan. Adequate attention to the occasional short masterpieces of the minor writers and special study of the major works of greater writers.

246. A Survey of English Literature II. Fall, Winter, and Spring. (4 q. hrs.)

English prose and poetry (including drama) from Dryden to DeQuincey. Adequate attention to the occasional short masterpieces of the minor writers and special study of the major works of greater writers.

247. A Survey of English Literature III. Winter and Spring. (4 q. hrs.)

English prose and poetry (including drama) from Macaulay to Dylan Thomas. Adequate attention to the occasional short masterpieces of the minor writers and special study of the major works of greater writers.

250. American Literature I. Fall, Winter, and Spring. (4 q. hrs.)

A survey of American Literature from Colonial times through the Transcendental Movement, stressing trends and major writers. Special emphasis is given to works of Edward Taylor, Nathaniel Hawthorne, Edgar Allan Poe, Ralph Waldo Emerson, and Henry David Thoreau.

251. American Literature II. Fall, Winter, and Spring. (4 q. hrs.)

A survey of American literature from the close of the Transcendental Movement to 1900, stressing trends and major writers.

Special emphasis is given to works of Herman Melville, Walt Whitman, Emily Dickinson, Mark Twain, and Henry James.

252. American Literature III. Fall, Winter, and Spring. (4 q. hrs.)

A survey of American literature from 1900 to the present, stressing trends and major writers. Special emphasis is given to works of E. A. Robinson, Robert Frost, T. S. Eliot, William Faulkner, and Ernest Hemingway.

260. English Novel to 1850. Fall. (4 q. hrs.)

English 260 treats of fiction of the first half of the nineteenth century with emphasis upon the novels of Austen, Thackeray, Dickens, Trollope, Scott, the Brontes. Standards of good fiction, past and present, are discussed.

Prerequisite: English 121.

261. English Novel From 1850 to 1900. Winter. (4 q. hrs.)

English 261, a continuation of English 260, is concerned with the fiction of the latter half of the nineteenth century as represented by the novels of George Eliot, Hardy, Meredith, Stevenson, Willkie Collins.

Prerequisite: English 121.

262. The American Novel to 1900. Winter. (4 q. hrs.)

A study of the best American novels before the twentieth century, with emphasis on the works of Hawthorne, Melville, Twain, and James.

Prerequisite: English 120, 121.

263. The Twentieth Century Novel: English and American. Spring. (4 q. hrs.)

An analysis of selected novels by major figures in English and American fiction such as Joyce, Dreiser, Fitzgerald, Hemingway, Steinbeck, Lawrence. Emphasis is on types and trends in the modern novel.

Prerequisite: Sophomore standing advisable.

270. Modern Drama. Spring. (4 q. hrs.)

The purpose of this course is to familiarize the student with what is best in modern drama.

275. Literature of the Old Testament. (Omitted 1966-67.) (4 q. hrs.)

An objective study of types of literature of the Old Testament —simple narratives, biography, history, law, short story, drama,

prophecy, poetry, and wisdom literature. Some attention is paid to historical backgrounds.

310. Studies in Major American Poets. (Omitted 1966-67.) (4 q. hrs.)

A study in depth of various major American poets, such as Taylor, Whitman, Dickinson, Robinson, Frost. Only one or two poets will be studied during any given quarter, and the poet or poets studied may vary from quarter to quarter.

322. Literature in the Grades. Fall, Winter and Spring. (4 q. hrs.)

Emphasizes chiefly wide acquaintance with the great bodies of world literature—myth, legend, etc.—and with the best poetry suitable for children.

Enrollment restricted to students in the elementary curriculum.

325. Greek Drama. Spring. (4 q. hrs.)

Origin and development of classical drama. Aeschylus, Sophocles, Euripides, with a study of Greek life and thought, and their contribution to our culture.

Prerequisite: English 120, 121.

326. Shakespeare's Earlier Plays. Fall and Winter. (4 q. hrs.)

A study of Shakespeare from his earliest plays to 1600, including *Richard III, Richard II, Romeo and Juliet, Midsummer Night's Dream, Merchant of Venice, Much Ado About Nothing, Henry IV, As You Like It,* and *Julius Caesar.*

327. Shakespeare's Later Plays. Winter and Spring. (4 q. hrs.)

A study of Shakespeare from 1600 to his last plays, including *Twelfth Night, Hamlet, Troilus and Cressida, Othello, Measure for Measure, King Lear, Macbeth, Antony and Cleopatra, Coriolanus,* and *The Tempest.*

333. Colonial American Literature. Spring. (4 q. hrs.)

A study of American literature from its beginnings through the Revolutionary period. Essays, biographies, poetry, and fiction will be studied both for their intrinsic value and for their importance as a background for subsequent literary expression in America.

340. Methods of Teaching English in the High School. Fall, Winter and Spring. (4 q. hrs.)

Important topics connected with English in the high school are covered as fully as time permits.

Prerequisite: Admission to teacher education.

355. Advanced Rhetoric. Winter. (4 q. hrs.)

Chiefly written composition, applying the principles of organization and effective expression to somewhat more extended material than do English 120 and 121.

Prerequisite: Twelve quarter hours of English.

356. Creative Writing. Spring. (4 q. hrs.)

Practice in finding, organizing and presenting materials for poetry, the familiar essay, the biographical sketch, and the short story. Emphasis is placed on materials drawn from the writer's experience and environment.

360. Studies in Major American Novelists. Fall. (4 q. hrs.)

A study in depth of various major American novelists, such as Hawthorne, Melville, Twain, James, Faulkner, Hemingway. Only one or two novelists will be studied during any given quarter, and the novelist or novelists studied may vary from quarter to quarter.

361. World Literature: Ancient and Medieval. Fall. (4 q. hrs.)

Reading in translation of representative masterpieces of the ancient world and of the middle ages.

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. Winter. (4 q. hrs.)

Emphasis on generally recognized masters, Rabelais, Montaigne, Shakespeare, Goethe, Moliere, Racine, Cervantes, and others.

363. World Literature: Since 1850. Spring. (4 q. hrs.)

Readings in the masterpieces of realism, naturalism, symbolisms: Balzac, Flaubert, Dostoevsky, Tolstoy, Ibsen, Mann, Proust, Faulkner, and others.

364. Introduction to the General Nature of Language and of English. Fall, Winter and Spring. (4 q. hrs.)

An over-view of theories of the nature of language; of the language and writing systems of the world and their growing conflicts; modern American English and its cultural setting. Concentration topics, e.g., psycho-linguistics, chosen by instructor.

370. Twentieth Century British Literature. Fall. (4 q. hrs.)

Representative writings in twentieth century British literature (exclusive of the novel) with special attention to Conrad, Yeats, Joyce, and Eliot.

379. Nineteenth Century American Poetry. (Omitted 1966-67.) (4 q. hrs.)

A study of major trends and significant figures in nineteenth century American poetry. Various genres, such as the lyric and the epic, are considered, and attention is given to the relationship between poetic theory and practice.

380. Theory and Practice of Modern Drama I. Fall. (4 q. hrs.)

The best of Ibsen, Shaw, Chekhov, and Strindberg. A course taught cooperatively by the Department of English and the Department of Theatre Arts. The aim of the course is to give the student experience in intellectual analysis and interpretation of significant dramatic works, and also experience in acting and directing. Acting is optional.

381. Theory and Practice of Modern Drama II. Winter. (4 q. hrs.)

The best of O'Neill, Tennessee Williams, Arthur Miller, and Thornton Wilder.

382. Theory and Practice of Modern Drama III. Spring. (4 q. hrs.)

The best of the "Absurdists"—Beckett, Ionesco, Albee, Pinter, Genet.

COURSES OPEN TO JUNIORS, SENIORS, AND GRADUATE STUDENTS

453. Sixteenth and Seventeenth Century Prose. (Omitted 1966-67.) (4 q. hrs.)

Development of prose from the earliest experiments to later times, including such authors as Lyly, Sidney, Bacon, Bunyan, and Milton together with the times that influenced and made it.

454. The Transcendental Movement. Winter (4 q. hrs.)

A study of the New England Transcendental movement. Major emphasis is placed on the writings of Ralph Waldo Emerson and Henry David Thoreau, although some attention is given to other writers who figured in the movement.

455. Eighteenth Century Prose Writers. Fall. (4 q. hrs.)

A study concerned with the prose writers of Queen Anne and the Hanoverians. Emphasis upon periodical literature and its influences on the education of the lower classes.

456. Eighteenth Century Prose Writers. (Omitted 1966-67.) (4 q. hrs.)

Henry Fielding, Richardson, Goldsmith, Smollett, Sterne, Walpole, Johnson.

457. Nineteenth Century English Prose. Fall. (4 q. hrs.)

Major nineteenth century English prose writing (exclusive of fiction) of Carlyle, Macaulay, Newman, Lamb, Hazlitt, Mill, Froude, Thackeray, Ruskin, Arnold, Huxley, Coleridge, Wordsworth, Morris, Pater, Stevenson.

459. Methods of Teaching Children's Literature. (Omitted 1966-67.) (4 q. hrs.)

A course 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.

465. Middle English Literature. Winter. (4 q. hrs.)

A study of the non-Chaucerian literature of the Middle Ages, including a brief initial survey of Old English literature; stress on major types: religious prose and poetry, social commentary, lyric poetry, the romance, drama.

470. English Poetry. Fall. (4 q. hrs.)

English poetry from 1550 to 1798, exclusive of Milton and the precursors of romanticism.

471. Poetry of the Romantic Period. Winter. (4 q. hrs.)

Precursors of Romanticism and Blake, Burns, Wordsworth, Coleridge, Byron, Shelley, Keats.

472. Poetry of the Victorian Period. Spring. (4 q. hrs.)

Tennyson and Browning, etc.

475. Milton. Spring. (4 q. hrs.)

A study of the life, prose, and poetry of John Milton, and his relationship to the literary trends of his century.

480. Chaucer. Winter. (4 q. hrs.)

Canterbury Tales; the London dialect out of which modern English grew; the life of the times.

481. Chaucer. Spring. (4 q. hrs.)

A study of *Troilus* and *Criseyde* and such other works as *The House of Fame, The Parliament of Fowls* and *The Legend of Good Women;* a study of the London dialect out of which modern English grew; and ideas of the time such as courtly love, predestination and free will.

490 (457). Elizabethan Drama. Fall. (4 q. hrs.)

A survey of the development of the English drama of the Renaissance, based on the works of the major playwrights of the period, including selected plays of Shakespeare.

491 (458). Drama of the Restoration and Eighteenth Century. Winter. (4 q. hrs.)

A critical survey of the dramatic development beginning with the plays of the later seventeenth century and culminating in the comedies of Sheridan and Goldsmith.

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. Fall. (4 q. hrs.)

An extensive study of the basic principles of evaluating the standard literary forms—epic, dramatic, lyrical, and prose narrative.

510. Studies in Medieval Literature. Fall. (4 q. hrs.)

A study in depth of representative non-Chaucerian literature of the English Middle Ages. The course may concern itself with genres—the drama, the romance, the ballad—or with figures: the Gawain poet, William Langland, John Gower, John Lydgate, Robert Henryson.

520. Studies in Renaissance Poetry. Winter. (4 q. hrs.)

A study of a single major poet—such as Spenser or Sidney—or a group of poets, in relation to the dominant ideals and attitudes of the Renaissance.

541. Studies in American Prose. Spring. (4 q. hrs.)

A course devoted to the study of some movement in American prose, such as the romance and the novel in nineteenth century fiction; the short story; the rise of realism; the nineteenth century novel; theory and practice; the novelle; biography, autobiography, and the essay; the local color movement. Only one movement to be treated in any given term, and the movement and authors studied may change from term to term.

Prerequisite: English 250 and 251 or their equivalent, or by permission of the instructor.

545. Descriptive Linguistics. (Omitted 1966-67.) (4 q. hrs.)

A survey of the activity of descriptive linugistics from the 1930's and the war years to the present, with some training in the various disciplines arising therefrom; e.g., structural, transformational, and other grammars; techniques in teaching English as a foreign language; techniques in related fields.

Prerequisite: Permission of the instructor.

550. Comparative Literature. Winter. (4 q. hrs.)

Literature, chiefly of the Western World 1650 to 1900. It has a double aim: first it proposes to offer for the enjoyment and appreciation of the student some of the best literature of the period; second, it will call to the student's attention the ideas and movements of the time.

Credit applicable only to the Group III requirement for the degree M.S. in Ed.

551. Biography. (Omitted 1966-67.) (4 q. hrs.)

A survey of biography designed to whet the reader's interest in the major periods of culture, English and American.

Credit applicable only to the Group III requirement for the degree M.S. in Ed.

575. Studies in Shakespeare. Winter. (4 q. hrs.)

The content of the course will vary from year to year in order to provide opportunity for investigation of intellectual patterns and socio-political aspects of the works in addition to their distinctively literary values.

Prerequisite: English 326 or 327 or their equivalent, or by permission of the instructor.

577. Studies in Seventeenth Century Literature. Winter. (4 q. hrs.)

Studies in single or related authors from John Donne to John Dryden, excluding Milton and the drama.

579. Studies in Eighteenth Century Prose and Poetry. Spring. (4 q. hrs.)

Focus upon Pope and the Neo-classical ideal; the Johnson circle; the Scottish nature poets.

585. Studies in Nineteenth Century Literature. Fall. (4 q. hrs.)

A detailed study of some of the basic and most typical thematic preoccupations of the nineteenth century as revealed in its literature. Although primary emphasis will be on English literature, some study of relevant American and European literature will be included. Since emphasis is upon themes rather than literary genres, the course will include studies of particular poems, novels, and non-fictional prose.

592. Studies in Twentieth Century Prose.
(Omitted 1966-67.) (4 q. hrs.)

An intensive study of the major figures of the period in England and America: Conrad, Lawrence, and Joyce; Hemingway and Faulkner. Focus will be on one or two writers, varying from quarter to quarter.

595. Thesis. (4 q. hrs.)

FOREIGN LANGUAGES

Professors: Michael, Miess (Head)
Associate Professors: Cobb, L. L. Kelly, Kirby, Morfit, Ovcharenko, O. W. Russell
Assistant Professors: Ceide-Echevarria, Ortiz-Muniz
Instructors: Betts, McKee, D. G. Miller, VanDeventer, Weier

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	Latin 122 French 132 German 132 Russian 142 Spanish 132	Latin 220 French 230 German 233 Russian 250 Spanish 230
3 years	Latin 220 French 230 German 233 Russian 250 Spanish 230	Latin 221 French 231 German 234 Russian 251 Spanish 231
4 years	Latin 222 French 232 German 235 Russian 252 Spanish 232	a course numbered above 300

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:

French 333, 334, 335, 410, 411, 412, 450, 451, 452, 510, 511, 512
German 353, 355, 362, 363, 411, 412, 453, 454, 511, 512
Russian 360, 361, 363
Spanish 321, 322, 323, 332, 411, 456, 457, 458, 510, 511, 512

LATIN

UNDERGRADUATE COURSES

120, 121, 122. Elementary Latin. Fall, Winter, Spring.
(4 q. hrs. for each course.)

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.

No credit for graduation for less than a year's work.

220. Introductory Latin Reading. Fall. (4 q. hrs.)

Selection from Aulus Gellius, Phaedrus, and Caesar.

Prerequisite: Latin 122, or two yaers of Latin in high school.

221. Vergil's Aeneid. Winter. (4 q. hrs.)

Selections from Book I to VI. Greek and Roman mythology; scansion; sight translation; life of Vergil.

Prerequisite: Latin 220 or equivalent.

222. Orations of Cicero. Spring. (4 q. hrs.)

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 equivalent.

310 (210). Readings in Roman History and Mythology.
Fall. (4 q. hrs.)

Selections from Caesar, Eutropius and Sallust.

Prerequisite: Latin 222 or four years of Latin in high school.

311 (211). Selected Letters. Winter. (4 q. hrs.)
Readings from the correspondence of Cicero and Pliny.
Prerequisite: Two years of college Latin or permission of the department.

312 (212). Roman Biography. Spring. (4 q. hrs.)
Readings from Cornelius Nepos.
Prerequisite: Two years of college Latin or permission of the department.

330. Cicero Essays, Selections from De Amicitia and De Senectute. (Omitted 1966-67.) (4 q. hrs.)
Prerequisite: Two years of college Latin or permission of the department.

331. Horace, Selections from the Odes, Satires, and Epistles. (Omitted 1966-67.) (4 q. hrs.)
Prerequisite: Two years of college Latin or permission of the department.

332. Livy, Selections from Books I, XXI, XXII. (Omitted 1966-67.) (4 q. hrs.)
Prerequisite: Two years of college Latin or permission of the department.

340. Methods of Teaching Latin. Winter. (4 q. hrs.)
Prerequisite: Admission to teacher education.

433. Ovid, Selections from Trista, Heroides, Amores, Fasti, Metamorphoses. Fall. (4 q. hrs.)
The life and times of Ovid; Roman and Greek mythology.
Prerequisite: Three years of college Latin or permission of the department.

434. Latin Composition. Winter. (4 q. hrs.)
The purpose of this course is to give the prospective Latin teacher a facility in the use of the more elementary constructions. The exercises are based upon the authors usually read in high school.
Prerequisite: Three years of college Latin or permission of the department.

435 (345). Medieval Latin. Spring. (4 q. hrs.)
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. (Omitted 1966-67.) (4 q. hrs.)

451. Selections from Catullus and Martial. (Omitted 1966-67.) (4 q. hrs.)

452. Roman Comedy. The Menaechmi and Captives of Plautus; The Phormio and Andria of Terence. (Omitted 1966-67.) (4 q. hrs.)

510. Suetonius: The Life of Augustus Caesar. Fall. (4 q. hrs.)
Translation of a 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, Apocolocyntosis. Winter. (4 q. hrs.)
Examples of Roman satire in the first century A.D.; introduction to the picaresque novel.

512. Apuleius, The Story of Cupid and Psyche. (4 q. hrs.)
Translation of a major excerpt from Apuleius' Metamorphosis; introduction to the Eastern cults prevalent in Rome.

FRENCH

UNDERGRADUATE COURSES

130, 131, 132. Elementary French. Fall, Winter and Spring. (4 q. hrs. for each course.)
Principles of grammar; phonetics; pronunciation and drill in rhythm and intonation; reading of simple French texts; conversation.
No credit for graduation for less than a year's work.

230, 231, 232. Second Year French. Fall, Winter and Spring. (4 q. hrs. for each course.)
Review of grammar; exercises in composition; conversation; readings.
Prerequisite: Two years of high-school French or one year of college French.

330. Applied Linguistics. Fall. (4 q. hrs.)

Application of principles of linguistic analysis to modern French. 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. Winter. (4 q. hrs.)

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. Spring. (4 q. hrs.)

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.

333. 17th Century Drama. Fall (4 q. hrs.)

Selected works: Moliere, Racine, Corneille.

Prerequisite: Two years of college French or permission of the department.

334. 18th Century Drama. Winter. (4 q. hrs.)

Selected works: Lesage, Voltaire, Beaumarchais, Marivaux.

Prerequisite: Two years of college French or permission of the department.

335. 19th Century Drama. Spring. (4 q. hrs.)

Selected works: Hugo, Musset, Dumas fils, Rostand, Maeterlinck, Claudel.

Prerequisite: Two years of college French or permission of the department.

340. Methods of Teaching French. Fall and Winter. (4 q. hrs.)

Prerequisite: Admission to teacher education.

410. Introduction to the French Novel I. Fall. (4 q. hrs.)

A study of selected novels of Mme. de LaFayette, Prévost, Constant, George Sand.

Prerequisite: Three years of college French or permission of the department.

411. Introduction to the French Novel II. Winter (4 q. hrs.)

A study of selected novels of Victor Hugo, Balzac, Stendhal, Flaubert.

Prerequisite: Three years of college French or permission of the department.

412. Introduction to the French Novel III. Spring. (4 q. hrs.)

A study of selected novels of Zola, Proust, Gide, Camus.

Prerequisite: Three years of college French or permission of the department.

COURSES OPEN TO JUNIORS, SENIORS, AND GRADUATE STUDENTS

450. Survey of French Literature from the Middle Ages to the 18th Century. (Omitted 1966-67.) (4 q. hrs.)

Readings: Chanson de Roland, Villon, Marot, Rabelais, Ronsard, Descartes, Pascal, La Rochefoucauld, Mme de Sevigne, La Fontaine, La Bruyere, Boileau.

451. Survey of French Literature of the 18th Century. (Omitted 1966-67.) (4 q. hrs.)

Readings: Lesage, Montesquieu, Voltaire, Diderot and the Encyclopedistes, Bernardin de Saint-Pierre, Chenier.

452. Survey of French Literature of the 19th Century. (Omitted 1966-67.) (4 q. hrs.)

Readings: Chateaubriand, Mme de Stael, Lamartine, Hugo, Vigny, Musset, Gautier, Balzac, Sainte-Beauve, Flaubert, Taine, Renan, Leconte de Lisle, Baudelaire, Daudet, Maupassant, Zola.

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 gradute students.)

510. French Novel I: Before Balzac. (Omitted 1966-67.) (4 q. hrs.)

A study of selected novels of Mme. de La Fayette, Le Sage, Prevost, Constant, Dumas, Hugo, George Sand.

511 (454). French Novel II: Balzac to Proust. (Omitted 1966-67.) (4 q. hrs.)

A study of selected novels of Balzac, Stendhal, Flaubert and Zola.

512 (455). French Novel III: Proust to the Present. (Omitted 1966-67.) (4 q. hrs.)

A study of selected novels of Proust, Alain Fournier, Gide, Mauriac, and Camus.

595. Thesis. (4 q. hrs.)

GERMAN

UNDERGRADUATE COURSES

130, 131, 132. Elementary German. Fall, Winter and Spring. (4 q. hrs. for each course.)

Direct method: equal emphasis upon conversation, grammar, reading; incorporation of cultural, geographical, and historical information; extensive use of audio-visual aids.

No credit for graduation for less than a year's work.

233, 234, 235. Second Year German. Fall, Winter and Spring. (4 q. hrs. for each course.)

Rapid review of grammar; practice and vocabulary-building exercises in conversation, and regular exercises in composition; intensive reading of selected short stories and novels.

Prerequisite: German 132 or two years of high school German.

250. Scientific German. Spring. (4 q. hrs.)

Extensive readings in and development of the terminology of the Physical Sciences, the Biological Sciences and the Social Sciences.

Prerequisite: German 234 or four years of high school German.

340. Methods of Teaching German. Winter. (4 q. hrs.)

Prerequisite: Admission to teacher education.

353. Masterpieces of German Literature. (Omitted 1966-67.) (4 q. hrs.)

Introduction to German literature, its themes, forms, and ideals.

Prerequisite: German 235 or permission of the department.

354. Conversation and Writing. Winter. (4 q. hrs.)

Training in writing German, diction and pronunciation.

Prerequisite: German 235 or permission of the department.

355. Twentieth Century German Literature. (Omitted 1966-67.) (4 q. hrs.)

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. Applied Linguistics. Fall. (4 q. hrs.)

Application of the findings of descriptive linguistics to the study and the teaching of German; the results of linguistic analysis and their practical significance both to the student of that language and to the teacher.

Prerequisite: German 235 or permission of the department.

362. Schiller's Dramas. Spring. (4 q. hrs.)

A study of the development of German classicism as embodied in Schiller's dramas; the theory, structure and dramaturgy of the classical drama in Germany.

Prerequisite: German 235 or permission of the department.

363. Lyrics and Ballads. (Omitted 1966-67.) (4 q. hrs.)

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. Fall. (4 q. hrs.)

A systematic study of present day Germany, Austria, and Switzerland.

Prerequisite: Three years of college German or permission of the department.

411. German Drama. Winter. (4 q. hrs.)

A study of the outstanding German dramas until 1800.

Prerequisite: Three years of college German or permission of the department.

412. Introduction to Goethe. Spring. (4 q. hrs.)

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. (Omitted 1966-67.) (4 q. hrs.)

Students will read selected works in their entirety and portions or condensations of other major works from anthologies. Lectures and discussions in German will amplify and clarify the various periods.

454. German Literature Since 1700. (Omitted 1966-67.) (4 q. hrs.)

Students will read selected works in their entirety and portions or condensations of other major works from anthologies. Lectures and discussions in German will amplify and clarify the various periods.

455. Advanced Conversation, Composition and Syntax. (Omitted 1966-67.) (4 q. hrs.)

Advanced training in writing and speaking German for improvement in grammar, syntax and style; essays and discussions will be drawn from various aspects of the literature studied in courses 453 and 454.

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 (456). History of German Civilization. (Omitted 1966-67.) (4 q. hrs.)

Analysis of selected topics from German culture and civilization.

511 (457). Modern German Drama. (Omitted 1966-67.) (4 q. hrs.)

A study of the drama of the Nineteenth and Twentieth Centuries and its relation to World Drama, especially Greek.

512 (458). Goethe. (Omitted 1966-67.) (4 q. hrs.)

595. Thesis. (4 q. hrs.)

RUSSIAN

UNDERGRADUATE COURSES

140, 141, 142. Elementary Russian. Fall, Winter and Spring. (4 q. hrs. for each course.)

Pronunciation; basic grammar; written and oral exercises; reading of simple Russian prose.

No credit for graduation for less than a year's work.

250, 251, 252. Second Year Russian. Fall, Winter and Spring. (4 q. hrs. for each course.)

Study of grammar continued; written and oral exercises; reading of moderately difficult Russian prose.

Prerequisite: Russian 140, 141, 142.

340. Methods of Teaching Russian. Winter. (4 q. hrs.)

Prerequisite: Admission to teacher education.

360. Modern Russian Authors. Fall. (4 q. hrs.)

Reading of short selections from a wide range of authors such as Pushkin, Tolstoy, Dostoyevsky, Turgenev, Saltykov-Shchedrin, Lermontov, Gogol, Chekhov, Gorky, Sholokhov, and Simonov.

Prerequisite: Two years of college Russian or permission of the department.

361. Masterpieces of Russian Literature. The Russian Novel in the 19th Century. Winter. (4 q. hrs.)

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.

362. Russian Readings in the Sciences and Social Sciences. (Omitted 1966-67.) (4 q. hrs.)

Readings in history, politics, current events, business, industry, steel-making, physics, chemistry, geography, and psychology.

Prerequisite: Two years of college Russian or permission of the department.

363. Chekhov and Other Russian Dramatists. Spring. (4 q. hrs.)

The Three Sisters and *The Cherry Orchard* by Chekhov. *The Lower Depths* by Gorky, and one play of the Soviet period will be read in their entirety.

Prerequisite: Two years of college Russian or permission of the department.

SPANISH

UNDERGRADUATE COURSES

130, 131, 132. Elementary Spanish. Fall, Winter and Spring. (4 q. hrs. for each course.)

The aim in elementary Spanish is to give the student a working knowledge of the language. To that end great stress is laid upon pronunciation, conversation, and the use of records, and films.

No credit for graduation for less than a year's work.

230, 231, 232. Second Year Spanish. Fall, Winter and Spring. (4 q. hrs. for each course.)

The first month of Spanish 230 is devoted to a review of the elements of the language. Several comedies and stories are read.

Ample opportunity is given for conversation in Spanish; numerous films are used to acquaint students with the history and culture of Spanish speaking countries.

Prerequisite: Two years of Spanish in high school or one year in college.

321 (453). Introduction to Spanish Literature From 12th to 15th Centuries. Fall. (4 q. hrs.)

Study of development of medieval Spanish literature.

Prerequisite: Two years of college Spanish or permission of the department.

322 (454). Introduction to Spanish Literature From 16th to 17th Centuries. Winter. (4 q. hrs.)

Study of development of Renaissance and Golden Age Spanish literature.

Prerequisite: Two years of college Spanish or permission of the department.

323 (455). Introduction to Spanish Literature From 18th to 20th Centuries. Spring. (4 q. hrs.)

Prerequisite: Two years of college Spanish or permission of the department.

330 (462). Introduction to Spanish American Civilization. Fall. (4 q. hrs.)

A study of contemporary civilization in Spanish America against a view of the history of the area from the period of the discovery.

Prerequisite: Two years of college Spanish or permission of the department.

331. Spanish Composition and Conversation. Winter. (4 q. hrs.)

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.

332. Introduction to Spanish American Literature. Spring. (4 q. hrs.)

A study of selected writings and literary history from the Colonial Period to the present.

Prerequisite: Two years of college Spanish or permission of the department.

340. Methods of Teaching Spanish. Winter. (4 q. hrs.)

Prerequisite: Admission to teacher education.

410. Advanced Composition and Conversation. Fall. (4 q. hrs.)

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 (310). Modern Short Stories of Spain. Winter. (4 q. hrs.)

Reading of Spanish short stories from latter part of the 19th century to present. Analysis and oral discussions in Spanish.

Prerequisite: Three years of college Spanish or permission of the department.

412 (461). Survey of Spanish Culture and Civilization. Spring. (4 q. hrs.)

A study of contemporary civilization in Spain against a view of the history of the Peninsula from ancient times.

Prerequisite: Three years of college Spanish or permission of the department.

COURSES OPEN TO JUNIORS, SENIORS, AND GRADUATE STUDENTS

456 (336). The Short Story in Spanish America. Fall. (4 q. hrs.)

A study of the development of the short narrative in Spanish America, and the reading of short stories from representative authors.

457 (337). Modern Poetry of Spanish America. Winter. (4 q. hrs.)

A study of the poetry of Spanish America, from the *modernista* movement to the present.

458 (338). Modern Novel of Spanish America. Spring. (4 q. hrs.)

A study of selected 19th and 20th century novels.

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 (450). Poetry of Spain. (Omitted 1966-67.) (4 q. hrs.)

Readings and analysis of Spanish poetry from 15th century to present.

511 (451). Selected Modern Drama of Spain. (Omitted 1966-67.) (4 q. hrs.)

Reading of complete modern dramas of Spain from second half of the 19th century to present, with emphasis in current developments in Spanish theater. Discussions in Spanish.

512 (452). Modern Novels of Spain. (Omitted 1966-67.) (4 q. hrs.)

Reading of complete novels of Spain from latter part of the 19th century to present.

595. Thesis. (4 q. hrs.)

CLASSICS

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.)

550. Greek Literature in English Translation. Summer. 1967. (4 q. hrs.)

A survey course devoted to the reading and discussion of the masterpieces of classical Greek literature from Homer to Demosthenes.

Credit applicable only to the Group III requirement for the degree M.S. in Ed.

551. Latin Literature in English Translation. Summer 1967. (4 q. hrs.)

A survey course devoted to the reading and discussion of the masterpieces of classical Latin literature from Plautus to Suetonius.

Credit applicable only to the Group III requirement for the degree M.S. in Ed.

FRENCH

(See Foreign Languages)

GEOGRAPHY

Professors: Price (Head), M. J. Read
Associate Professors: Amos, McDonald, Martin
Assistant Professor: Mausel
Instructor: Barry

UNDERGRADUATE COURSES

Geography 140, 141, 142 provide a general cultural sequence, and background to further study in the earth sciences.

Geography 150, 151 are planned as a sequence in beginning geography. Geography 150 generally is a prerequisite for more advanced courses.

Geography 300, 301, and 302, required in the elementary curriculum under the old plan, are open to all students on an elective basis. These courses substitute for Geography 236, 221, and 120 in that order, to meet the former requirements in the elementary curriculum.

140. Physical Geography. Every quarter. (4 q. hrs.)

The geologic approach to a study of earth materials and processes; attention given to common rocks and minerals, vulcanism, erosional processes, tectonic forces, and map interpretation. Field trip.

141. Physical Geography. Fall and Winter. (4 q. hrs.)

Study of weather and climate, the factors which influence them, and their importance to man; recent developments in knowledge of weather presented.

No prerequisite.

142. Physical Geography. Spring. (4 q. hrs.)

A study of the earth's surface, the areal interrelationships of its landforms, water resources, soils, natural vegetation, and economic minerals; world patterns of distribution of physical elements of geography and their relationships to man. Field trip.

No prerequisite for Geography 140, 141, and 142. The courses may be taken in any order.

150. World Geography. Every quarter. (4 q. hrs.)

A survey in which significant areal differences in population form the core of the course. Man's areal setting and the working bonds he has developed with the land and its resources. Regional and topical approaches utilized. A study of the earth as the home of man.

151. Regional Geography of North America.
Fall and Winter. (4 q. hrs.)

An introduction to the regional approach in geography with North America, and especially the United States, the example.

Prerequisite: Geography 150 or 141 or 142. No credit if Geography 302 has been taken.

241. Climates of the World. (Omitted 1966-67.) (4 q. hrs.)

Comparison of methods used in classifying climatic types. Consideration of genetically derived climatic types, to vegetation, soil, and land-use associations. Applications of climatology to industry, agriculture, and aviation.

Prerequisite: Geography 141 or permission of instructor.

242. Regional Geomorphology. Fall. (4 q. hrs.)

A study of the landforms of the United States; work with maps of landforms with consideration of their composition and the processes by which they were formed.

Prerequisite: Geography 142 or permission of instructor.

243. Historical Geology. Winter. (4 q. hrs.)

A study of the physical history of the earth's crust and the record in rocks and the evolution of life forms as evidenced by fossils.

Prerequisite: Geography 140.

244. Mineralogy. Winter. (4 q. hrs.)

A study of minerals with emphasis on crystallography, genesis, association, and classification. (Two one-hour classes and two two-hour laboratory classes per week.)

Prerequisite: Geography 140, Chemistry 122 or 152.

300. Elementary Earth Science. Fall and Spring. (4 q. hrs.)

Physical elements of geography as an earth science; phenomena of earth shape and motions, daylight, time, and seasons analyzed as they affect the earth as man's home. Common Illinois rocks and minerals, land forms, and earth features introduced. Local field trip.

Open on an elective basis to all students.

301. Elementary Geography. Winter. (4 q. hrs.)

Regional geography of the world is analyzed as based on physical factors. Emphasis is placed on weather and climate and the working bonds man has developed with various environments through the world.

Open on an elective basis to all students. No credit if Geography 150 has been taken.

302. North America. Spring. (4 q. hrs.)

Man's occupance of the continent of North America with special emphasis on the United States. The regional approach used with some time spent on the wise utilization of resources.

Prerequisite: One course in geography. Open on an elective basis to all students. No credit if Geograpahy 151 has been taken.

340. Methods and Materials in Geography. Fall. (4 q. hrs.)

The nature of geography and its place among the disciplines and in the school curriculum. Texts, reference materials, visual and other aids, and classroom procedures considered. Some classroom experience in teaching techniques.

Prerequisite: Admission to teacher education.

343. Structural Geology. Fall. (4 q. hrs.)

Forces involved in the deformation of rocks with emphasis on the recognition, interpretation, and illustration of the resultant geologic structures. Field trip. (Two one-hour classes and two two-hour laboratory classes per week.)

Prerequisite: Geography 140, 243.

345. Petrology. Spring. (4 q. hrs.)

Physical and chemical properties of rocks, their origin, classification and geologic distribution. Field trip. (Two one-hour classes and two two-hour laboratory classes per week.)

Prerequisite: Geography 140.

346. Economic Geology. Fall. (4 q. hrs.)

Origin, geologic occurrence and utilization of metallic and nonmetallic mineral deposits including fuels and ground-water resources. The economic and political significance of these resources is considered. (Two one-hour classes and two two-hour laboratory classes per week.)

351. Geography of the Caribbean Lands. (Omitted 1966-67.) (4 q. hrs.)

An analysis of the resources, culture and problems of Mexico, Central America and West Indian Islands. Recent political, economic and population changes in the area are emphasized.

360. Economic Geography. Every quarter. (4 q. hrs.)

An examination of world industries and the areal significance of economic activities. The geographic significance for each economic activity is considered as well as an evaluation of the varying importance of each to the world economy.

361. Advanced Economic Geography I. Winter. (4 q. hrs.)

Geography of transportation and domestic and foreign trade; special emphasis is on the physical pattern of transportation routes and the various functions of urban settlement and the importance of these to our economy.

362. Advanced Economic Geography II. Spring. (4 q. hrs.)

The essential agricultural and mineral resources of the world and their associated industries are studied. Special emphasis on the geographic aspects of recent economic developments which have national and international significance.

370. Geography of Illinois. (Omitted 1966-67.) (2 q. hrs.)

A study of Illinois, climate, landforms, soil, water and mineral resources. Population distribution and economic activities. Geography of the State also interpreted in the light of its historical setting.

380. Cartography. Winter. (4 q. hrs.)

Instruction and practice in the fundamentals of map projection, map construction, and reproduction.

381. Field Techniques and Problems. Spring. (4 q. hrs.)

Experience in defining and solving field problems through collecting, classifying, and analyzing data in the field. Plane tabling, making of simple field maps, use of aerial photographs and competence in field techniques stressed.

387. Conservation of Natural Resources. Spring. (4 q. hrs.)

Study of problems dealing with the wise use of soil, minerals, forests, animals, and waters with special reference to Illinois and the United States. Some field trips used as laboratory sessions.

446. Urban Geography. Winter. (4 q. hrs.)

A study of the urban areas of the world. Analysis is made of the origins, development, distribution, character, structure, and functions of urban centers and their peoples.

COURSES OPEN TO JUNIORS, SENIORS, AND GRADUATE STUDENTS

450. North America. (Omitted 1966-67.) (4 q. hrs.)

An advanced study which emphasizes the United States' landforms, resources, cities, rivers, transportation routes and economic areas which are covered in their regional settings.

451. Geography of South America. Winter. (4 q. hrs.)

Physical features, resources, peoples, land utilization, and economic development of the countries of South America.

452. Geography of Europe. Fall. (4 q. hrs.)

A study of the countries of Europe and the geographic basis for their stages of development and commercial and political relations; emphasis upon current problems.

453. Geography of Asia. Spring. (4 q. hrs.)

Physical and cultural geography as a background for understanding the current problems in southwestern, southern and eastern Asia.

454. Geography of Africa. Spring. (4 q. hrs.)

A regional study of Africa. Development and interpretation of physical, political, economic and social regions in Africa.

455. Geography of the U.S.S.R. Winter. (4 q. hrs.)

A regional study of the Soviet Union. Includes a study of the physical as well as the cultural environment in which the Russian people live and work. Analysis of the present economic development and of the industrial potential of the Soviet Republic.

456. The North American Midwest. Fall. (4 q. hrs.)

A regional approach to climate, settlement, agriculture, industry, trade and transportation of central United States. Emphasis is on the geography of Illinois.

470. Historical Geography of the United States. (Omitted 1966-67.) (4 q. hrs.)

A study of the elements of geography and the role they have played in the various stages in the settlement and subsequent development of the United States.

471. Political Geography. Winter. (4 q. hrs.)

A study of the great world powers in the light of their geographic conditions. Analysis is made of current "hot spots" and the fundamentals of national strength.

480. Advanced Cartography. Spring. (4 q. hrs.)

A study of the history, uses, and construction of maps, cartographic work and use of aerial photographs; individual projects and problems.

Prerequisite: Geography 380.

486. Geography of Soils. Fall. (4 q. hrs.)

Morphology of soils, soil forming factors, and soil classification and associations. World distribution of soil types, detailed study

directed to the soils of selected areas of agricultural pedalogical importance. Field trip.

Prerequisite: Twelve quarter hours of geography or permission of instructor.

487. Regional Problems in Conservation. (Omitted 1966-67.) (4 q. hrs.)

The distribution, use, and interrelationship of the resources in the various resource management regions of the United States, the conservation techniques applied to them, and the problems of public policy in their effective management.

490. Social Problems in Geography. Every quarter. (1-4 q. hrs.)

Provides opportunity for the student to do independent study in the field of geography. Designed for the individual needs of the student at either the undergraduate or graduate level.

GRADUATE COURSES

(Courses numbered 500-549 inclusive may be taken by a student 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. Literature and Materials of Geography. Spring. (4 q. hrs.)

Acquaints graduate students in geography with the materials available for study and research in the field. Basic philosophies in geography analyzed.

550. Geography in World Affairs. Spring. (4 q. hrs.)

Working bonds between man and the environment; emphasis upon the natural resources, agricultural and industrial production and transportation in national affairs. Problems of international politics and their geographic foundations.

Credit applicable only to the Group III requirement for the degree M.S. in Ed.

551. A Geography of Man. (Omitted 1966-67.) (4 q. hrs.)

Designed to give the student a better understanding of the role of geography in human affairs. Special attention given to the literature of the field and recent developments in geography.

Credit applicable only to the Group III requirement for the degree M.S. in Ed.

552. Earth Interpretations. Winter. (4 q. hrs.)

Cultural course for the student with little or no previous work in physical geography. Physical resources are analyzed as they are inter-related to each other and to man.

Credit applicable only to the Group III requirement for the degree M.S. in Ed.

556 (553). Bio-Geography. Fall. (4 q. hrs.)

Physical factors which influence plants and animals: distribution, climatic conditions, glaciation, soils, physiognomy, including barriers, succession, climax, and competition.

590. Seminar in Educational Geography. (Offered on demand.) (4 q. hrs.)

The place of geography among the disciplines in the curriculum at all levels of instruction from elementary school through junior college. A written report of significant research on some phase of educational geography required.

595. Thesis. (4 q. hrs.)

GERMAN

(See Foreign Languages)

HEALTH EDUCATION

Professor: Riebe
Associate Professor: J. J. Richardson (Head)
Assistant Professors: M. E. Green, V. C. Smith, Wilson
Instructor: Herauf

UNDERGRADUATE COURSES

120. Personal Hygiene. Every quarter. (4 q. hrs.)

Personal hygiene for young adults in college: emotional problems; sex, marriage, parenthood; nutrition; fatigue and rest; alcohol and tobacco; immunization; related personal and public health problems.

227. Health Education in Elementary, Junior, and Senior High Schools. Every quarter. (4 q. hrs.)

Organic functions and problems of effective healthful living.

Prerequisite: Health Education 120.

320. School and Community Health Problems.
Every quarter. (4 q. hrs.)

A survey of the school health program with particular emphasis on the teacher's role in healthful school living, health services, and health instruction. School-community relationships are emphasized as well as those between teaching personnel and other responsible persons.

Prerequisite: Health Education 120 or its equivalent.

330. Safety Education. Fall and Winter. (4 q. hrs.)

Safety problems of modern life in the home, school, during recreation, on the highway, and at work.

331. Introduction to Driver Education. Fall and Spring. (4 q. hrs.)

The first of two courses designed to prepare teachers of driver education for secondary schools; laboratory work with beginning drivers.

Prerequisite: Student must have (1) valid driver's license and (2) a safe driving record.

332. Advanced Driver Education and Traffic Safety.
Spring. (4 q. hrs.)

A continuation of Health Education 331, with special attention to administration, organization, finance, adult education and evaluation of the school driver education program.

Prerequisite: Health Education 331 or concurrent enrollment in this course.

HISTORY

Professors: Hamand, W. D. Miner, Seymour, Syndergaard (Head), Tingley
Associate Professor: Nichols
Assistant Professors: Buenker, Hennings, Horak, Keiser, Maurer, F. A. Miller, Sterling, Thorburn, VanOrman, L. C. Wood
Instructors: Hockman, Pierson

UNDERGRADUATE COURSES

233. History of the United States to 1840. Every quarter. (4 q. hrs.)

The colonial period; the independence movement; the framing and adoption of the Constitution; the growth of American nationality; Western development and Jacksonian democracy.

234. History of the United States, 1841 to 1898.
Every quarter. (4 q. hrs.)

Manifest Destiny and the slavery controversy; the Civil War and Reconstruction; the new industrial society and the agrarian movement.

235. History of the United States Since 1898.
Every quarter. (4 q. hrs.)

The War with Spain. The United States as a World Power; the growth of industry and the progressive movement; the First World War; postwar problems; depression and the New Deal; the Second World War; postwar problems, foreign and domestic.

244. Ancient History. Fall, Winter and Spring. (4 q. hrs.)

The ancient Middle East; Ancient Greece; Hellenistic Age; Roman Republic; Roman Empire, its rise and decline. Covers the period of time from c. 3000 B.C. to 500 A.D.

245. Medieval Europe. Fall, Winter, and Spring. (4 q. hrs.)

Germanic invasions; rise of The Papacy; rise of Frankish Empire; Carolingian empire; feudalism; Mohammedanism; beginnings of national states; Crusades; medieval culture—universities, literature, art; 100 Years' War; decline of Church.

246. European History, c. 1500-1715. Fall, Winter and Spring. (4 q. hrs.)

A study of the emergency of modern Europe, rise of national states, Renaissance, Reformation, Catholic Reformation, age of discovery and exploration, age of Philip II—1556-88, rise of absolutism in France—1598-1660, decline of monarchy in England—1603-69, Thirty Years' War—1618-1648. Age of Louis XIV.

247. European History, c. 1715-1870. Fall, Winter, and Spring. (4 q. hrs.)

Rise of Russia and Prussia in the eighteenth century; colonial rivalry of France and England; the Enlightenment; French Revolution and Napoleon.

248. European History, 1870 to Present.
Fall, Winter and Spring. (4 q. hrs.)

Triumph of nationalism in Germany and Italy; Second Industrial Revolution; background of World War I; World War I; Fascism, Nazism, World War II; Cold War.

281. Latin-American History to 1830. Fall. (4 q. hrs.)

Exploration and settlement of the Spanish and Portuguese empires in the western world; colonial development; the era of revolution and independence; the relationships between the Latin-American colonies and nations with the English colonies and the United States.

Prerequisite: Sophomore standing.

282. Latin-American History Since 1830. Winter. (4 q. hrs.)

Political, economic, and cultural development; relationships between the Latin-American republics and the United States. The Monroe Doctrine; the Pan-American Union; the "Good Neighbor" policy; the origination of the American states.

Prerequisite: Sophomore standing.

323. Economic History of the United States, 1607-1860. Fall. (4 q. hrs.)

An examination of the American economy to the Civil War. Growth of capacity to produce, evolution of entrepreneurial practices and business organization, changes in communications and markets, elements of labor force, government regulation, and economic philosophies.

Prerequisite: History 233.

324. Economic History of the United States, 1860-1929. Winter. (4 q. hrs.)

An examination of the American economy from the Civil War to the crash of 1929.

Prerequisite: History 234.

325. Economic History of the United States, 1929 to the Present. Spring. (4 q. hrs.)

An examination of the American economy from the crash of 1929 to the present.

Prerequisite: History 235.

343. History of England to 1603. Fall. (4. q hrs.)

Early settlement of the British Isles; Roman occupation, Anglo-Saxon civilization; the early Church; the Norman Conquest and relations with France; the development of the common law and Parliament; the development of the Church and the separation of the Anglican Church; English art and literature.

344. History of England and the British Empire, 1603 to 1815. Winter. (4 q. hrs.)

Discovery, colonial expansion, the founding of the British Empire; the constitutional struggles and the supremacy of Parliament; the commercial, agricultural, and industrial revolutions; the literature and science of the period; the struggle with France for colonial supremacy.

345. History of the British Empire Since 1815. Spring. (4 q. hrs.)

The reformation of Parliament; the development of industry and commerce and trade rivalry; development of scientific thought; the First World War and its consequence; the Empire's greatest test in the Second World War.

370. History of Illinois. (Omitted 1966-67.) (2 q. hrs.)

The Indian culture; the French regime; the British period; the old Northwest; the frontier state; the Civil War; the industrial state; the twentieth century.

371 (492). Expansion and Disunion, 1820 to 1861. Fall. (4 q. hrs.)

Jacksonian Democracy; Manifest Destiny; Slavery and Abolition; Lincoln, Douglas and Davis; Secession.

Prerequisite: History 233, 234.

372 (471). Civil War and Reconstruction. Winter. (4 q. hrs.)

The causes of the Civil War; political, economic, and social problems during the War; the military phases of the War; post-war problems both North and South; the Civil War as a revolution.

Prerequisite: History 234 or consent of instructor.

378 (478). Czarist Russia. Fall. (4 q. hrs.)

The rise of Muscovy. Peter the Great and Katherine the Great; the Napoleonic era; reaction and reform in the nineteenth century; Russia in the First World War.

379 (479). Soviet Russia. Winter. (4 q. hrs.)

The organization of the Communist Party; the Revolution of 1917; Lenin and Stalin; Russia and World War II.

384 (484). Renaissance and Reformation. (Omitted 1966-67.) (4 q. hrs.)

Humanism; Italian art; Northern art; Luther's theology; Zwingli; John Calvin's Theology; Age of Charles V 1517-1556.

397 (479). History of the Ancient Near East. (Omitted 1966-67.) (4 q. hrs.)

Ancient Egypt, Babylonia, and Persia; special emphasis on Hebrew history. Designed to serve as historical background for a better understanding of the Old Testament.

398 (458). Hellenic History. (Omitted 1966-67.) (4 q. hrs.)

An advanced course in the history of the ancient Greeks dealing primarily with the character and achievements of this great culture, centering in the Age of Pericles. Other materials presented are de-

signed to show the relationship of this period to the Hellenistic Age that follows, with specific reference to modern times.

Prerequisite: History 244.

399 (498). The Roman Empire. (Omitted 1966-67.) (4 q. hrs.)

An analysis of the Roman Empire at its height, with particular emphasis on those conditions which provide an adequate background for a study of the New Testament and the beginnings of the Christian religion.

423 (473). Special Problems in European History.
Fall. (4 q. hrs.)

Special study by intensive reading in an area of history of interest to the student.

Prerequisite: History 244, 245, 246, 247 and 248.

COURSES OPEN TO JUNIORS, SENIORS, AND GRADUATE STUDENTS

453. Constitutional History of England. Winter. (4 q. hrs.)

A study of the English constitution to the time of Henry VII. Emphasis on the development of political institutions essential to western democracy, special emphasis on the development of the common law, the court system, the conflicts between king and parliament, and changing character of the British constitution.

Prerequisite: One year of history or consent of the instructor.

454. Constitutional History of England. Spring. (4 q. hrs.)

A study of the English constitution since the time of Henry VII. Emphasis on the development of political institutions regarded as essential to western democracy, with special emphasis on the development of the common law, court system, conflicts between king and parliament, and the changing character of the British constitution.

Prerequisite: One year of history or consent of the instructor.

456. Intellectual History of Europe: Ancient and Medieval.
(Omitted 1966-67.) (4 q. hrs.)

A study of the history of ideas in the Greek and Rome of antiquity and Europe in the Middle Ages, including the channels of expression of ideas in philosophy, art, literature, music, etc., the place of ideas in the political, economic, and social setting of each age, and their influence on later ages.

Prerequisite: History 244 and 245.

457. Intellectual History of Europe: Modern.
(Omitted 1966-67.) (4 q. hrs.)

The history of ideas since the Renaissance, including the Reformation, rationalism and the rise of science, the Enlightenment, 19th century romanticism, nationalism, conservatism, liberalism, Marxian radicalism, Darwinism, 20th century science, philosophy and political ideologies.

Prerequisite: History 246, 247, and 248.

460. Recent United States History, 1900-1930.
Winter. (4 q. hrs.)

This course will be an intensive study of America's rise to world power, the Progressive Era, the United States' role in the First World War, the 1920's and the background to the Great Depression.

461. Recent United States History, Since 1930.
Spring. (4 q. hrs.)

This course will be an intensive study of the Great Depression, the New Deal, Isolationism, the U. S. and the Second World War, the Cold War, the Truman Era, and the Eisenhower Years.

464. Major Problems in Latin-American History.
Fall. (4 q. hrs.)

A systematic, analytic, and interpretive examination of major problems of Latin-American history. Beginning with the principal aspects of the 300-400 years of Spanish and Portuguese heritage, the study proceeds through the national period to the present, considering the main features arising from the environment of the New World, in conjunction with the legacy of the Old.

465. Latin America and the United States. Spring. (4 q. hrs.)

An examination of the history of the relationships between Latin America and the United States from independence to the present day. The economic, social, and intellectual factors which underlie diplomatic intercourse are analyzed.

466. History of American Frontier, The Colonial Period (1492-1783). Fall. (4 q. hrs.)

A study of the discovery, settlement and westward push of population in the area now included in the United States, with emphasis on the effect of the frontier on the institutions and the people of America.

Prerequisite: History 233, or consent of instructor.

467. History of The American Frontier: The Trans-Appalachian Frontier, 1783-1850. Winter. (4 q. hrs.)

A study of the westward push of Americans into the Mississippi Valley, the growth of new states, the West in the War of 1812, and the role of the frontier west in the growth of sectionalism in the United States prior to the Civil War.

Prerequisite: History 233 and 234.

468. History of The American Frontier: The Western Frontier. Spring. (4 q. hrs.)

A study of the growth of the Trans-Mississippi West from the earliest Indian and Spanish influences through the period of American expansion and acquisition, and the growth of the West to prominence in American history to 1890.

Prerequisite: History 233, 234, 235, or consent of the instructor.

469. Constitutional History of the United States to 1865. (Omitted 1966-67.) (4 q. hrs.)

English backgrounds; the colonial governments; the Declaration of Independence; the Articles of Confederation; the early state consitutions; the making of the Constitution; the first Supreme Court, the Marshall court, the Taney Court.

Prerequisite: History 233, 234, 235, or consent of the instructor.

470. Constitutional History of the United States Since 1800. (Omitted 1966-67.) (4 q. hrs.)

The Reconstruction decisions; the Court and big business; the Court and imperialism; the Progressive Era. The Court and freedom of speech; the Court and civil rights, The New Deal.

Prerequisite: History 233, 234, 235, or consent of the instructor.

476. The American Colonies. Fall. (4 q. hrs.)

Colonization of the area now included in the United States; the political, economic, and social development of the American colonies to 1763.

Prerequisite: History 233.

477. The American Revolution and Confederation. Winter. (4 q. hrs.)

The background and causes of the American Revolution; political and social results of the revolution; problems of the Critical Period; formation of the Constitution.

Prerequisite: History 233.

483. History of Canada. (Omitted 1966-67.) (4 q. hrs.)

The French regime; the British conquest of French Canada; the change to Dominion status; relationships between Canada and the United States.

485. Europe in the Eighteenth Century. Fall. (4 q. hrs.)

The struggle to maintain the balance of power; the contest for empire; the development of responsible government in England; the origins of industrial and agricultural revolution.

486. The World in the Twentieth Century I. Spring. (4 q. hrs.)

Origins of World War I; Versailles and its aftermath; the emergence of new small nations and the spread of nationalism in Asia; the rise of Communism, Fascism and Nazism; the Great Depression; the era of dictatorship.

489. The French Revolution. Winter. (4 q. hrs.)

The Old Regime; Estates-General and National Assembly; Republic, Consulate and Empire; the Napoleonic System; Waterloo.

490. Europe in the 19th Century. Spring. (4 q. hrs.)

Congress of Vienna; Reaction and Revolution; the Industrial Revolution; the Second Empire; unification of Italy and Germany; Parliamentary reform in Great Britain; Triple Alliance and Triple Entente.

491. The Study and Teaching of Local History. (Omitted 1966-67.) (4 q. hrs.)

The locations and nature of local historical records and remains and their use in teaching history in the public schools. A seminar type course, lectures, student reports, field work in Charleston and vicinity.

Prerequisite: History 233, 234, 235, or experience in teaching United States History in the junior high school or senior high school.

495. Social and Intellectual History of the United States in the Colonial Period. Fall. (4 q. hrs.)

The transfer of culture from Europe to the English Colonies. The development of traits and ideas that are characteristic of the United States. The development of religious, scientific, educational, and political theories that influence the United States.

Prerequisite: History 233.

496. Social and Intellectual History of the United States in the 19th Century. Winter. (4 q. hrs.)

The development of ideas and way of life in the United States in the 19th Century.

Prerequisite: History 233 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.)

545 (472). Special Problems in American History. Fall. (4 q. hrs.)

Special study by intensive reading in an area of history of interest to the student. The student will be allowed to investigate a significant topic in American history through extensive reading of the primary and secondary material in the field.

Prerequisite: History 233, 234, 235.

550. Abraham Lincoln. Fall. (4 q. hrs.)

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.

551 (494). The Literature of American History. Spring.

A study of great historical writings against the backgrounds of the times and places in which they were written.

Credit applicable only to the Group III requirement for the degree M.S. in Ed.

552 (493). The Literature of the History of Western Civilization. (Omitted 1966-67.) (4 q. hrs.)

A study of great historical writings against the backgrounds of the times and places in which they were written.

Credit applicable only to the Group III requirement for the degree M.S. in Ed.

561. Historiography and Historical Methods. Fall. (4 q. hrs.)

A study of the methods of historical research. Selection of a topic of research and its limitations, the acquisition of material, and the study of style in historical writing.

563. Seminar in American History. Winter. (4 q. hrs.)

Intensive study of special topics in American history, to be determined by the interests of the students.

564. Seminar in European History. Fall. (4 q. hrs.)

Intensive study in special topics in European history, to be determined by the interests of the student.

565. Seminar in Colonial American History. Spring. (4 q. hrs.)

Research in topics dealing with colonial American history.

566. Seminar in Civil War and Reconstruction. Spring. (4 q. hrs.)

Intensive study in topics dealing with Civil War and Reconstruction.

567. Seminar in Social and Intellectual History. Winter. (4 q. hrs.)

Research in topics dealing with social and intellectual history of the United States.

568. Seminar in Eighteenth Century Europe. Fall. (4 q. hrs.)

Intensive study in topics dealing with eighteenth century Europe.

569. Seminar in Nineteenth Century Europe. Winter. (4 q. hrs.)

Intensive study in topics dealing with nineteenth century Europe.

570. Seminar in Twentieth Century Europe. Spring. (4 q. hrs.)

Intensive study in topics dealing with twentieth century Europe.

595. Thesis. (4 q. hrs.)

HOME ECONOMICS

Professor: M. R. Swope (Head)
Assistant Professors: Bouldin, Devinney, Haughton, Starck
Instructor: Jorgenson
Faculty Assistant: Strader

Home Economics 210, 211, 212, 310, 320, 401, 420, 430 have two lectures and two laboratory periods per week; Home Economics 101, 201, 301 meet eight periods per week; all other Home Economics courses meet four periods per week.

UNDERGRADUATE COURSES

101. Principles of Clothing Construction. Every quarter. (4 q. hrs.)

A study of the principles of simple construction processes; interpretation and use of commercial patterns.

102. Nutrition. Every quarter. (4 q. hrs.)

The principles of human nutrition and their application to everyday nutritional problems; the relation of good food habits to the selection of an adequate dietary.

For majors only. (See Home Economics 303 for non-majors.)

131. Clothing Selection. Every quarter. (4 q. hrs.)

An introduction to consumer buying of ready-to-wear clothing; includes the study of fabrics, construction features, and design and color principles.

201. Advanced Clothing Construction. Every quarter. (4 q. hrs.)

Principles involved in the selection of fabrics, designs and patterns. Emphasis on advanced construction techniques and garment fitting.

Prerequisite: Home Economics 101 or consent of instructor.

210. Principles of Food Preparation. Fall. (4 q. hrs.)

A study of the scientific principles and techniques underlying food preparation with special emphasis on physical and chemical changes involved, and the evaluation of a standard product.

Prerequisite: Chemistry 153, 154, 155 or consent of instructor.

211. Principles of Food Preparation, Continued. Winter. (4 q. hrs.)

Continued study of the scientific principles and techniques underlying food preparation.

Prerequisite: Home Economics 210.

212 (204). Studies in Experimental Foods. Spring. (4 q. hrs.)

Physical and chemical reactions in food preparation and their relation to the finished product when experimental procedures are applied.

Prerequisite: Home Economics 211.

230. Household Equipment. Fall and Winter. (4 q. hrs.)

Selection, construction, operation and care of household equipment and their relation to the well-being of the family group.

231. Sociology of Clothing. Fall and Spring. (2 q. hrs.)

Significance of clothing choices in all cultures; psychological reasons for clothing selection; political and economic trends affecting clothing; and an analysis of the fashion market.

245. Home Management Theory. Fall and Spring. (2 q. hrs.)

Principles of scientific management as applied to the home; includes a study of family finance, household buying, care of equipment, time and energy management, and housing problems.

300. Family Economics. Spring. (4 q. hrs.)

Factors affecting family financial management, including the influence of economic conditions on the welfare of families. Investments and savings; use of credit; insurance, and various types of family accounts.

301. Tailoring. Winter and Spring. (4 q. hrs.)

Tailoring techniques used in the construction of a suit or coat.

Prerequisite: Home Economics 201.

302 (344). Advanced Nutrition. Spring. (4 q. hrs.)

Principles of human nutrition and desirable dietary habits as applied to the needs of individuals at various stages in the life span; some emphasis on current nutrition research.

Prerequisite: Home Economics 102.

303. Human Nutrition and Food Study. Fall and Winter. (4 q. hrs.)

Fundamentals of normal nutrition and its application to feeding adults and children; principles involved in menu building, food buying and preparation.

For non-majors only.

310 (203). Family Food Management. Winter. (4 q. hrs.)

Application of scientific principles of menu construction, food buying, food preparation and table service meals at various cost levels. Special emphasis on management and work simplification techniques.

Prerequisite: Home Economics 210, 211.

320. Family Housing. Fall and Winter. (4 q. hrs.)

Choices available in moderate-priced housing; arrangement and use of space; legal and financial considerations in renting, buying, or building; methods and materials of construction.

340. Methods of Teaching Home Economics. Spring. (4 q. hrs.)

The principles of teaching applied to home economics with particular emphasis on developing the curriculum, and the organization and administration of vocational departments in the public schools.

Prerequisite: Admission to teacher education.

345. Home Management House Residence. Every quarter. (4 q. hrs.)

Experience in the practical application of the principles of household management is offered through residence in the home management house.

Prerequisite: Home Economics 210, 211, and 245. Advanced registration with department required.

346. Child Development. Fall and Winter. (4 q. hrs.)

The physical, mental, social, and emotional development of the pre-school child.

347. Family Relationships. Fall and Winter. (4 q. hrs.)

Study of the family as the basic unit of society; personal relationships, boy-girl relationships; marital relationships and family interaction throughout the family life cycle.

360. Institutional Food Management. (Omitted 1966-67.) (4 q. hrs.)

Methods of food preparation in quantity; menu planning for institutions; recipe selection and standardization; economical use of materials and time. Practical experience is offered in the University food service.

Prerequisite: Home Economics 102, 210, and 211.

401. Principles of Pattern Design. Winter. (4 q. hrs.)

Principles of designing clothing and the translation of these designs into paper patterns; includes pattern drafting, grading, and fitting garments. Each student is required to create an original design, draft the pattern, and construct the garment.

Prerequisite: Home Economics 301 or consent of instructor.

420. Interior Design. Winter and Spring. (4 q. hrs.)

Selection and arrangement of furnishings with the emphasis on planning costs and budgets for different income levels; planning of individual rooms including the study of accessories, color schemes, and suitable fabrics.

430. Home Furnishings. Spring. (4 q. hrs.)

A study of the consumer's problems in the selection of home furnishings. Making of draperies, slip covers, and the upholstering of furniture is included in the laboratory work.

431. Textiles and Senior Seminar. Spring. (4 q. hrs.)

An advanced study of textile fibers, yarns, weaves, and finishes. Current trends and research in home economics.

INDUSTRIAL ARTS

Professors: C. A. Elliott, E. W. Fowler, Klehm (Head), Sonderman
Associate Professors: Erwin, Griffin, Strandberg
Assistant Professors: Coleman, Thrall
Instructor: Watson
Substitute Instructor: Nestel

UNDERGRADUATE COURSES

131. Engineering Graphics. Every quarter. (4 q. hrs.)

Work in multiview, graphs, isometric drawing and isometric projection, oblique projection, sectional views, and dimensioning. Fundamental concepts of descriptive geometry. For pre-engineering students.

134. Woodwork I. Every quarter. (4 q. hrs.)

Function, care, and use of woodwork hand tools, woodwork supplies, and finishes. Two class discussions and six periods of laboratory work each week.

135. Woodwork II. Winter and Spring. (4 q. hrs.)

Continuation of Industrial Arts 134: study and use of power woodwork equipment. Two class discussions and six periods of laboratory work each week.

Prerequisite: Industrial Arts 134.

140. General Metal. Fall and Spring. (4 q. hrs.)

The development of manipulative techniques in the use of hand tools and machines for working iron, steel, and non-ferrous metals; processes in forming, shaping and finishing hot and cold metal. Two class discussions and six periods of laboratory work each week.

150. Applied Electricity. Every quarter. (4 q. hrs.)

A study of principles of electricity as they apply to house wiring, appliances, laboratory power circuits and automotive ignition. Four class discussions and two periods of laboratory work each week.

224. Primary Grade Industrial Arts. Every quarter. (4 q. hrs.)

Dissemination of subject matter information; laboratory experiences with industrial materials as a teaching device in the lower grades. Two lectures and six laboratory periods per week.

This course is not open to industrial arts majors.

225. Intermediate Grade Industrial Arts. Every quarter. (4 q. hrs.)

Laboratory experiences and informational materials concerning industrial crafts for intermediate grade level. Two lectures and six laboratory periods per week.

This course is not open to industrial arts majors.

231. Mechanical Drawing I. Every quarter. (4 q. hrs.)

Techniques of drafting, instrument practice, sketching, geometrical construction, pictorial drawing, multiview projection, dimensioning, sectioning, and reproduction of drawings. One class discussion and seven periods of laboratory work each week.

232. Mechanical Drawing II. Winter and Spring. (4 q. hrs.)

Pictorial sectioning, representation of machine fasteners, development of surfaces and intersections. One class discussion and seven periods of laboratory work each week.

Prerequisite: Industrial Arts 231.

233. Mechanical Drawing III. Spring. (4 q. hrs.)

Techniques of drafting as applied to industrial working drawings in design, layout, detail drawings, assembly drawings, parts lists, gearing and cams. Shop sketching is included.

Prerequisite: Industrial Arts 232.

245. Industrial Arts Design. Fall and Spring. (2 q. hrs.)

Designing as applied to Industrial Arts projects is the principal emphasis. The functional approach is used with fitness to materials, techniques, physical, social and psychological considerations as factors influencing design.

259. Introduction to Graphic Arts. Fall and Winter. (4 q. hrs.)

Laboratory experiences in hand composition, platen presswork, bookbinding, papermaking, and rubber stamp making. Information about industrial practices, occupations, and graphic arts in education. Two class discussions and six periods laboratory work per week.

260. Advanced Graphic Arts. Winter and Spring. (4 q. hrs.)

Further laboratory experiences in hand composition, imposition, platen presswork, and linoleum block cutting. Information about typographic design, halftone, paper, ink, type design, and layouts. Two class discussions and six periods of laboratory work each week.

Prerequisite: Industrial Arts 259.

265. Woodfinishing. Fall and Spring. (2 q. hrs.)

Discussion periods: preparation of surfaces to be finished, bleaches, stains, fillers, resinous finishes, wipe-on finishes and refinishing.

Laboratory: experimenting with a variety of finishes applied with various methods to a variety of woods.

300. Applied Electronics. Fall. (4 q. hrs.)

A study of and assembly of electronic circuits used in radio receivers, transmitters and automated controls of machines. Two class discussions and 4 periods of laboratory work each week.

Prerequisite: Industrial Arts 150.

326. Sheet Metal. Winter and Spring. (4 q. hrs.)

Techniques in the use of hand tools and machines for shaping sheet metal; practice in surface development; study of pertinent subject matter. Two class discussions and six periods of laboratory work each week.

Prerequisite: Industrial Arts 232.

336. Millwork. Every quarter. (4 q. hrs.)

Furniture and cabinet making with woodwork machines; care and adjustment of machines; spray finishing; planning laboratory activities. Two class discussions and six periods of laboratory work each week.

Prerequisite: Industrial Arts 135, 232, 245, and 265. The student pays for material used in this course.

340. Methods of Teaching Industrial Arts. Fall and Spring. (4 q. hrs.)

The selection, organization, and preparation of instructional content for class and laboratory use. Application of appropriate principles of teaching.

Prerequisite: Six industrial arts laboratory courses. Admission to teacher education. Students completing this course may not elect Industrial Arts 341.

341. Organizing and Teaching the General Shop. Fall and Spring. (4 q. hrs.)

From the general shop approach the following is included: choosing objectives of work; selecting and organizing teaching materials; laboratory planning; and testing.

Prerequisite: Six industrial arts laboratory courses. Admission to teacher education. Students completing this course may not elect for credit Industrial Arts 340.

352. Machine Metal Work I. Fall and Winter. (4 q. hrs.)

Theory and operation of the lathe, milling machine, shaper, surface and pedestal grinders, and drill press. The study of tapers, threads, abrasives, and layout procedures. Two class discussions and six periods of laboratory work per week.

Prerequisite: Industrial Arts 140.

354. Machine Metal Work II. Winter and Spring. (4 q. hrs.)

Advanced techniques of lathe, milling machine, shaper, and grinder operation. The study of precision measurement, metallurgy, heat-treatment, and gearing. Two class discussions and six periods of laboratory per week.

Prerequisite: Industrial Arts 352.

356. Machine Metal Work III. Spring. (4 q. hrs.)

Machining of castings, study of foundry practices, tool and cutter grinding, gear cutting, heat-treatment. One class discussion and seven periods of laboratory per week.

Prerequisite: Industrial Arts 354.

360. Letterpress Printing. Fall. (4 q. hrs.)

Laboratory experiences in automatic press work, bindery processes, production cost methods, silk-screen printing, advanced layout and copyfitting, color printing, special printing processes. Two class discussions and six periods of laboratory work per week.

Prerequisite: Industrial Arts 260.

361. Linotype Operation and Maintenance. Spring. (4 q. hrs.)

Laboratory experiences in the care, adjustment, repair and operation of the Linotype. Two periods of class work and six periods of the laboratory work per week.

Prerequisite: Industrial Arts 260.

375. Woodturning. Spring. (2 q. hrs.)

Operation and care of wood lathes; the use of lathe tools for spindle and face place turning. One class discussion and three periods of laboratory work each week.

Prerequisite: Industrial Arts 336.

380. Housing I. Fall and Winter. (4 q. hrs.)

Neighborhood planning as it affects residential districts, cost factors in house construction, architectural services, architectural styles, interior planning, and mechanical considerations. A house is planned and presentation drawings are prepared.

382. Housing II. Winter and Spring. (4 q. hrs.)

A continuation of Industrial Arts 380. Principles of house construction, details of construction, working drawings, and F.H.A. specifications. Two class discussions and six hours of laboratory work each week.

Prerequisite: Industrial Arts 380.

420. Welding Technology. Fall and Winter. (4 q. hrs.)

The technology of welding processes and materials; the development of basic skills in the use of electric arc and oxy-acetylene equipment.

444. Tool Maintenance. Spring. (2 q. hrs.)

Reconditioning and care of hand and power operated saws, straight edge cutting tools, auger-bits and wood boring tools. One class discussion and three hours laboratory work each week.

Prerequisite: Industrial Arts 336.

447. Technical Investigations in Industrial Arts. On demand. (4 q. hrs.)

Technical investigation involving laboratory work and a written report of findings. Area of study must be approved by instructor before registration for course.

Prerequisite: Industrial Arts major of senior standing. Student pays for needed materials not available from department supplies.

COURSES OPEN TO JUNIORS, SENIORS, AND GRADUATE STUDENTS

451. Organization of Subject Matter. Offered on demand. (4 q. hrs.)

A continuation of Industrial Arts 340 involving advanced work in the preparation of instructional material with a view of providing for individual needs and progress. Graduate student must write a course paper.

Prerequisite: Industrial Arts 340.

452. Recreational Crafts. Fall. (4 q. hrs.)

A study in depth of contemporary crafts involving technical information and laboratory experiences. Students taking this course for graduate credit will conduct a substantial investigation. Two lectures and six laboratory periods per week.

458. History of Vocational Industrial Education. (Omitted 1966-67.) (4 q. hrs.)

A course in the history, organization and administration of vocational industrial education. Federal and State laws affecting industrial arts and vocational programs.

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.)

550. Graphic Arts in a Changing Culture. Winter and Spring. (4 q. hrs.)

Offered as a cultural course in the graduate program. Develops an appreciation of the importance of graphic arts through discussion,

laboratory experiences, field trips and appropriate audio-visual presentations.

Credit applicable only to the Group III requirement for the degree M.S. in Ed.

560. Achievement Evaluation in Industrial Arts.
Winter. (4 q. hrs.)

Kinds and types of evaluating instruments; principles of test construction; and construction of several tests. The evaluation of laboratory work is considered.

561. Course Making in Industrial Arts. Fall. (4 q. hrs.)

The horizontal and vertical approach is used. The student is required to construct at least one complete course outline and evaluate it against accepted criteria.

565. Philosophy of Practical Arts Education.
Spring. (4 q. hrs.)

Sociological principles, theories, and beliefs which have contributed to present educational practices; relationships of practical arts education, vocational education, and general education; philosophical considerations underlying current vocational education programs.

570. Design and Construction in Industrial Arts.
Winter. (4 q. hrs.)

Designing of projects to meet objectives of work, ability levels of students and typical equipment found in laboratories. Three classes and two periods of laboratory work.

Prerequisite: Industrial Arts major including a background in principles of design.

575. Professional Research in Industrial Arts.
On demand. (4 q. hrs.)

Designed for development of instructional aids, devices or problems for teaching industrial education. The plan for research to be undertaken must be approved by the instructor and head of the department. Conference method.

580. Planning of Industrial Arts Laboratory.
(Omitted 1966-67.) (4 q. hrs.)

A study of the physical facilities and equipment needs for teaching industrial arts, an opportunity is provided for planning new laboratories or redesigning those now in use. Two class discussions and four periods of laboratory work each week.

595. Thesis. (4 q. hrs.)

JOURNALISM

(Taught in the Department of English)

UNDERGRADUATE COURSES

210. History of Journalism. Fall. (4 q. hrs.)

Study of the historical development of the newspaper, particularly in America, based mainly on Mott's *American Journalism,* with attention to the mechanics, the craft, and the ethics of journalism.

211, 212. Reporting. Winter and Spring. (4 q. hrs. for each course.)

Principles of gathering and writing news, with practice in the classroom and, as soon as practicable, on the *Eastern News.* Attention is given to identification of elements of the news, basic news story form and variations, and techniques of reporting.

310, 311. Advanced Reporting and News Editing.
Fall and Winter. (4 q. hrs for each course.)

Editing the news, with attention to headwriting and newspaper makeup and design. Advanced types of news investigation and treatment. Writing of editorials and preparation of editorial judgments.

Prerequisite: Journalism 210, 211, 212.

312. Feature Writing and Magazine Articles.
Spring. (4 q. hrs.)

Writing newspaper features and magazine articles. Attention is given to the study of markets for factual articles, selection of subjects, investigation of subjects, organization of story, writing of articles and preparation of manuscripts.

COURSES OPEN TO JUNIORS, SENIORS, AND GRADUATE STUDENTS

460. Supervision of High School Publications.
(Omitted 1966-67.) (4 q. hrs.)

A course designed especially for advisers to high school publications. Topics include staff recruitment, staff relationships, copy preparation, production problems, and editorial judgments for the yearbook and newspaper.

No credit toward a minor in journalism.

LATIN

(See Foreign Languages)

LIBRARY SCIENCE

Professor: Schaupp (Head)
Associate Professor: F. M. Pollard
Assistant Professor: Kim
Instructor: R. W. Lawson

UNDERGRADUATE COURSES

320. The School Library Materials Center. Fall and Spring. (4 q. hrs.)

The organization and administration of school libraries, with special emphasis on instructional materials. The purpose, history, basic operation, and standards will be covered.

330. Literature for Children. Fall and Winter. (4 q. hrs.)

Types of resources best suited to children of grades 1 through 6. Includes reading and evaluation of materials both past and present; the study of children's needs and interests; their reading habits and abilities.

332. Literature for Young People. Fall and Spring. (4 q. hrs.)

Types of resources best suited for adolescents. Includes reading and evaluation of materials; the study of young people's needs and interests, abilities, and reading habits. Designed to acquaint the student with extent, selection, and use of materials.

430. Organization of Library Materials. Winter. (4 q. hrs.)

Principles and techniques of cataloging, classification, and the assigning of subject headings with practical application to books and other library materials. Detailed study is made of the Dewey Decimal Classification System.

Prerequisite: Library Science 320.

450. Reference Materials and Services. Spring. (4 q. hrs.)

Introduction to general and specialized sources of information: their content, evaluation, and use. Includes preparation and use of bibliographies; the study of indexes, dictionaries, encyclopedias, and other reference tools.

Prerequisite: Library Science 320, or consent of instructor.

460. Selection of Library Materials. Winter. (4 q. hrs.)

Sources of and criteria for selection of all types of library materials; bibliographical tools, reviewing and evaluating media; publishers and jobbers; purchasing procedures; and other problems related to selection and acquisition.

Prerequisite: Library Science 320.

490 (441). Observation and Practice.
Fall, Winter and Spring. (4 q. hrs.)

Designed to provide practical experience in library work with special emphasis on service to the public. Six periods per week under professional supervision comparable to student teaching. Weekly seminars under direction of the instructor. Part of this experience may be in the audio-visual field.

Prerequisite: At least four Library Science courses including 320, 430, and 450, or consent of instructor.

MATHEMATICS

Professors: Atkins, Davis, Derwort, DiPietro, Heller, Ringenberg (Head)
Associate Professors: Coon, Nanda
Assistant Professors: Christmas, Crabill, Erckmann, Hancock, Koontz, Laible, Meyerholtz, Pettypool
Instructors: LeDuc, Queary, L. J. Williams

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.

A limited amount of programmed materials and tutoring service is available in the mathematics office for students who may wish to review high school mathematics before enrolling in Mathematics 130.

Students with a weak background in mathematics may satisfy the general requirement 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 and one-half or more units of college preparatory mathematics in high school should take courses numbered 130 or higher to satisfy general requirements.

Students with a background of three or more units of college preparatory mathematics including trigonometry should take the mathematics department placement test before enrolling in Mathematics 130.

UNDERGRADUATE COURSES

122, 123. Number Systems and Informal Geometry.
Fall, Winter, Spring; Winter, Spring. (3 q. hrs. for each course.)

Concepts of number and geometry developed using physical objects, sets of objects, and pictures. The growth of the number concept. Natural numbers, integers, rational numbers, real numbers.

Prerequisite: Enrollment in the curriculum for elementary teachers. Simultaneous registration in Education 120 is expected. Mathematics 122 is prerequisite to Mathematics 123.

125. Elementary Mathematics. Every quarter. (4 q. hrs.)
A selection of units on the basic concepts of arithmetic, algebra, geometry.

126. Elementary Mathematics. Winter. (4 q. hrs.)
Topics in elementary algebra and geometry including right triangle trigonometry and elementary statistics.
Prerequisite: Mathematics 125.

130. Algebra and Trigonometry. Every quarter. (4 q. hrs.)
Trigonometric functions; application to triangles; real numbers; sets; functions; equations; determinants and systems of linear equations.
Prerequisite: Two years of college preparatory mathematics.

131. Algebra and Trigonometry. Every quarter. (4 q. hrs.)
Mathematical induction; binomial theorem, exponents and logarithms; trigonometric identities and equations; complex numbers; theory of equations.
Prerequisite: Mathematics 130, or three years of college preparatory mathematics including trigonometry and satisfactory placement test score.

134. Analytic Geometry. Every quarter. (4 q. hrs.)
Coordinate systems, straight lines, conic sections, polar and parametric forms; curve sketching techniques.
Prerequisite: Mathematics 131, or four years of college preparatory mathematics including trigonometry and satisfactory test score.

225. An Introduction to College Mathematics.
Fall and Spring. (4 q. hrs.)
Numeral systems; the natural number system; the computation algorithms; the growth of the number concept; rules of inference; sets, relations, functions; an introduction to groups and fields.

227. School Geometry. Fall and Winter. (4 q. hrs.)
The foundations of geometry. Elementary concepts of geometry from a modern point of view.
Prerequisite: Two years of college preparatory mathematics.

228. College Geometry. Every quarter. (4 q. hrs.)
Advanced Euclidean plane geometry; elementary transformations; homothetic figures; harmonic ranges; cross ratio; inversions; poles and polars; complete quadrilaterals and quadrangles.
Prerequisite: Mathematics 134.

231. Electronic Computer Programming. Every quarter. (4 q. hrs.)
Digital computer programming. Laboratory practice on the IBM 1620 using basic machine language, SPS, FORTRAN, and GOTRAN.
Not open to freshmen.

232. Introduction to Computer Programming. Every quarter. (1 q. hr.)
Computer programming in basic machine language and in FORTRAN.

235. Calculus. Every quarter. (4 q. hrs.)
Limits and continuity; the derivative concept; differentiation techniques through transcendental functions; Law of the Mean; applications.
Prerequisite: Mathematics 134.

236. Calculus. Every quarter. (4 q. hrs.)
Differentials; the integral concept; integration techniques; applications.
Prerequisite: Mathematics 235.

320. Mathematics in Grades K-3. Every quarter. (2 q. hrs.)
Methods and materials for teaching mathematics in grades K-3. Credit for this course does *not* count toward graduation except in the curriculum for the preparation of prospective elementary school teachers.
Prerequisite: Mathematics 122, 123.

321. Mathematics in Grades 4-6. Every quarter. (2 q. hrs.)
Methods and materials for teaching mathematics in grades 4-6. Credit for this course does *not* count toward graduation except in the curriculum for the preparation of prospective elementary school teachers.
Prerequisite: Mathematics 122, 123.

340. Teaching Mathematics. Every quarter. (4 q. hrs.)
Methods and materials for teaching mathematics (and physical science) in grades 7-12. Students with a minor in chemistry or physics may elect to include a survey of physical science methods and materials as a part of the course.
Prerequisite: Mathematics 235. Admission to teacher education.

343. Algebra. Fall, Winter. (4 q. hrs.)
Sets and relations; rings; integral domains; fields; polynomials; groups.
Prerequisite: Mathematics 235.

344. Linear Algebra. Winter, Spring. (4 q. hrs.)

The algebra of vectors and matrices; application to systems of linear equations, linear transformations, transformation of coordinate axes.

Prerequisite: Mathematics 343 or consent of the instructor.

345. Calculus. Every quarter. (4 q. hrs.)

Integration techniques, infinite series, partial differentiation, multiple integration, with applications.

Prerequisite: Mathematics 236.

350. Differential Equations. Fall, Winter. (4 q. hrs.)

Formal solutions of ordinary differential equations; a critical analysis of some elementary types; envelopes, trajectories, singular solutions, applications.

Prerequisite: Mathematics 345.

351. Differential Equations. Spring. (4 q. hrs.)

Development of the theory and techniques associated with the linear differential equation; applications; existence theorems; systems of linear differential equations; methods of approximation.

Prerequisite: Mathematics 350.

391. Problems in the Teaching of Arithmetic.
Offered on demand in extension. (4 q. hrs.)

Assigned readings, group discussions, and individual or group projects and reports.

Not open to mathematics majors.

392. Some New Units in Mathematics for the Upper Grades.
Offered on demand in extension. (4 q. hrs.)

A course based on units prepared by the School Mathematics Study Group for grades seven and eight.

Not open to mathematics majors.

393. Number and Operation. Offered on demand in extension. (2 q. hrs.)

A study of the basic concepts of arithmetic from a modern point of view.

Not open to mathematics majors.

COURSES OPEN TO JUNIORS, SENIORS, AND GRADUATE STUDENTS

460, 461. Advanced Calculus. Winter, Spring.
(4 q. hrs. for each course.)

Vectors and vector functions; the calculus of functions of several variables; line and surface integrals; Green's Theorem, and Stokes' Theorem.

Prerequisite: Mathematics 345.

470, 471. Statistics. Fall, Winter, Spring; Winter, Spring.
(4 q. hrs. for each course.)

Probability; statistical methods; empirical and theoretical frequency distributions; elementary sampling theory; correlation and regression; general principles for testing hypotheses and for estimation; statistical design in experiments.

Prerequisite: Mathematics 236.

480. Mathematics of Finance. Summer 1966. (4 q. hrs.)

Applications of mathematics to such topics as simple and compound interest, discount, annuities, capitalization, depreciation, and insurance.

Prerequisite: Mathematics 131.

490. History of Mathematics. (Omitted 1966-67.) (4 q. hrs.)

Development of numeral systems; ancient Babylonian and Egyption mathematics; Euclid's Elements; duplication, trisection, and quadrature problems; Hindu and Arabian contributions to mathematics; mathematics in the Dark Ages; origins of modern mathematics.

Prerequisite: Mathematics 236.

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.)

507. Digital Computer Techniques. Summer 1966. (4 q. hrs.)

Programming techniques using machine language, symbolic and automatic programming languages.

Prerequisite: Mathematics 345 or permission of the instructor. Primarily for graduates. Open to qualified seniors with permission of the instructor and the Dean of the Graduate School.

510, 511, 512. Modern Algebra. Fall, Winter, Spring.
(4 q. hrs. for each course.)

Groups. Rings. Fields. Galois theory.

Prerequisite: Mathematics 343 and 344, or permission of the instructor.

520, 521. Higher Geometry. Fall, Winter. (4 q. hrs. for each course.)

A selection of topics from projective geometry, differential geometry, non-Euclidean geometries.

Prerequisite: Mathematics 344 or permission of the instructor.

522. Topology. Spring. (4 q. hrs.)

Metric spaces. Topological spaces. Connectedness. Compactness.

Prerequisite: Mathematics 460, or permission of the instructor.

530, 531, 532. Real Variables. Fall, Winter, Spring. (4 q. hrs. for each course.)

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. (Omitted 1966-67.) (4 q. hrs. for each course.)

The complex plane and its subsets. Fractions, powers, roots, holomorphis functions. Power series. Complex integration. Representation of functions. The calculus of residues. Analytic continuation.

Prerequisite: Mathematics 461, or permission of the instructor.

540. The Teaching of Arithmetic in the Primary and Intermediate Grades. Summer 1966. (4 q. hrs.)

The techniques, methods, and materials used in teaching the concepts and skills of arithmetic in grades one through six.

541. The Teaching of Mathematics in Grades 7, 8, and 9. Summer 1967. (4 q. hrs.)

The techniques, methods, and materials used in teaching mathematics in grades seven, eight, and nine.

550. Mathematics in Modern Education and Life. Summer 1966. (4 q. hrs.)

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.

570. Problems in the Teaching of Mathematics. Summer 1966. (4 q. hrs.)

Recent curriculum advancements; study of topics selected from those proposed for study in secondary schools; effective teaching methods; assigned readings; reports.

595. Thesis. (4 q. hrs.)

MUSIC

Professors: Boyd (Head, Instrumental), Hare (Director), C. A. Smith (Head, Keyboard), Westcott
Associate Professors: Aulabaugh (Head, Music Theory, History, Literature), Bouknight, Pence (Head, Music Education), James H. Robertson, R. W. Weidner
Assistant Professors: Hieronymous, J. W. Krehbiel, Langdon, Maharg (Head, Vocal), S. Murray, Olson, Radtke, Schuster, Schweitzer, Todd
Instructors: Jacoby, J. D. Johnson, Sanders, Yates

UNDERGRADUATE COURSES

120. Basic Music for Classroom Teachers. Every quarter. (4 q. hrs.)

A study of basic music theory through aural analysis and musical notation. Emphasis is placed on ear training, singing by ear and from notation, rhythmic responsiveness and keyboard harmony.

For Elementary and Junior High majors.

126, 127, 128. Class Instruction in Piano. Fall, Winter, and Spring. (1 q. hr. for each course.)

A beginning course for students without previous piano study. This year's work substitutes for first year piano in applied music.

130, 131, 132. Music Theory. Fall, Winter, and Spring. (4 q. hrs. for each course.)

The study of scales, modes, intervals, basic harmony, rhythm, basic forms and key relationships. Aural understanding developed through dictation and sight singing.

Must be taken in sequence.

133, 134, 135. The First Year's Work in Applied Music. Piano, Voice, Strings, Woodwinds, Organ, or Brasses. Every quarter. (1 q. hr. for each course.)

136, 137, 138. Class Instruction in Voice. Fall, Winter, and Spring. (1 q. hr. for each course.)

Beginning vocal instruction for all not assigned to studio instruction. Emphasis is placed upon the attainment of good vocal habits and the ability to sing musically.

146, 147, 148. Class Instruction in Strings. Fall, Winter, Spring. (2 q. hrs. for each course.)

200. Class Instruction in Clarinet, Flute and Saxophone. Fall, Winter, and Spring. (2 q. hrs.)

A study of beginning instrumental technique, including methods of teaching.

201. Class Instruction in Oboe and Bassoon. Fall, Winter, and Spring. (2 q. hrs.)

A study of beginning instrumental technique, including methods of teaching.

204. Class Instruction in Trumpet and French Horn. Fall, Winter, and Spring. (2 q. hrs.)

A study of beginning instrumental technique, including methods of teaching.

205. Class Instruction in Trombone, Baritone, Tuba and Drums. Fall, Winter, and Spring. (2 q. hrs.)

A study of beginning instrumental technique, including methods of teaching.

210, 211, 212. Ensemble, Band. (1 q. hr. for each course.)

213, 214, 215. Ensemble, Chorus. (1 q. hr. for each course.)

221, 222. Fundamentals of Music. 221—Fall. 222—Winter. (4 q. hrs. each course.)

These courses are a continuation of Music 120. Emphasis is placed on basic music theory and those fundamental musical skills and understandings needed to develop the degree of competency necessary to teach general music in the elementary classroom.

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. Spring. (4 q. hrs.)

This course is designed to develop skills in listening to and understanding major forms and styles of Western Music which are especially 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 on Music.

229. Introduction to Music Literature. Every quarter. (4 q. hrs.)

A study is made of various types and forms of music as a means of increasing the student's awareness and understanding in listening to music. Representative selections from the great masterpieces of music are made familiar through listening and analysis.

230, 231, 232. Music Theory. Fall, Winter, and Spring. (4 q. hrs. for each course.)

A study of the construction and manipulation of the materials of music composition, including harmonic and contrapuntal procedures and development of aural skills.

Prerequisite: Music 132. Must be taken in sequence.

233, 234, 235. The Second Year's Work in Applied Music. Every quarter. (1 q. hr for each course.)

240. Laboratory in Music Education. (2 q. hrs.)

A laboratory course with emphasis on direct observations and individualized experiences in participation in all kinds of music learning situations at all grade levels.

243, 244, 245. Vocal Diction. Fall, Winter, Spring. (1 q. hr. for each course.)

A course designed primarily for voice majors (vocal performance emphasis); concerned with problems of pronunciation, meaning, dictionary use, and communication in the singing of English, Italian, German, and French.

Prerequisite: Applied voice 133, 134, 135, or equivalent.

256, 257, 258. Ensemble: Chorus, Cecilian Singers, Men's Glee Club, and Orchestra. (1 q. hr. for combination of two organizations in given quarter.)

310, 311, 312. Ensemble, Band. (1 q. hr. for each course.)

313, 314, 315. Ensemble, Chorus. (1 q. hr. for each course.)

320. History and Literature of Music. Fall. (4 q. hrs.)

The development of music from the ancient times through the Renaissance.

Not open to music majors or minors.

321. History and Literature of Music. Winter. (4 q. hrs.)

Music from the Baroque through the Classical Period.

Not open to music majors or minors.

322. History and Literature of Music. Spring. (4 q. hrs.)
Music from the Romantic Period to the present.
Not open to music majors or minors.

328. Music in Elementary Schools. Fall, Winter, and Spring. (4 q. hrs.)
A study of the objectives, methods, and materials of music education in the elementary grades.
Prerequisite: Music 120. For Elementary Education Majors.

333, 334, 335. The Third Year's Work in Applied Music. Every quarter. (1 q. hr. for each course.)

339. Methods of Teaching Vocal Music in Elementary Schools. Spring. (4 q. hrs.)
A study of the objectives, methods, and materials of music education in the elementary grades.
Prerequisite: Admission to teacher education.

340. Methods of Teaching Music in Secondary Schools. Winter. (4 q. hrs.)
This course deals with the music instruction program in both junior and senior high schools. Its primary focus is on the general music class plus other specialized classes not having performance as their primary concern.
Prerequisite: Admission to teacher education.

342, 343. Opera Workshop. Fall and Winter. (2 q. hrs. for each course.)
The study and performance of opera roles and selected opera scenes. Class participation will involve all aspects of staging, acting and singing. May be taken only with the permission of the instructor.

347. Orchestration. Fall. (4 q. hrs.)
Practical experience in scoring the string and wind instruments for public school music groups. Standard scores serve as a guide for study.

351. History and Literature of Music. Fall. (4 q. hrs.)
Development of music from ancient times through the Renaissance.
Open only to music majors and minors.

352. History and Literature of Music. Winter. (4 q. hrs.)
Development of music from the Baroque through the Classical.
Open only to music majors and minors.

353. History and Literature of Music. Spring. (4 q. hrs.)
Development of music from the Romantic Era to the Present.
Open only to music majors and minors.

356, 357, 358. Ensemble: Chorus, Orchestra, Cecilian Singers, and Men's Glee Club. (1 q. hr. for any combination of two organizations in a given quarter.)

362 (462). Piano Pedagogy. Spring. (4 q. hrs.)
A study of the problems of teaching piano both for the individual and in class lessons. An understanding of the piano mechanism, history of piano techniques, sight reading, memorization, etc. are included. A survey of piano teaching materials is made.
Prerequisite: Two years of applied piano.

380 (449). Choral Conducting and Materials. Fall. (4 q. hrs.)
A study of conducting techniques, organizations, score reading and interpretations essential to working effectively with vocal ensembles. Materials for use in the public school music program are studied. The class also serves as a laboratory chorus.

381 (450). Instrumental Conducting and Materials. Winter. (4 q. hrs.)
A study of baton technique, score reading and rehearsal routine. Materials for use in the public school music program are studied and appropriate literature for chamber groups, orchestra and band are included.
Prerequisite: Music 380.

410, 411, 412. Ensemble, Band. (1 q. hr. for each course.)

413, 414, 415. Ensemble, Chorus. (1 q. hr. for each course.)

432 (452). Psychology of Music. (Omitted 1966-67.) (4 q. hrs.)
Analysis of musical talent; testing and guidance programs; analysis of factors in musical performance and the application of elements in the psychology of music in a teaching situation.

433, 434, 435. The Fourth Year's Work in Applied Music. Every quarter. (1 q. hr. for each course.)

447 (453). Analysis and Form in Music. Winter. (4 q. hrs.)
A study of the structure of music, the elements of musical form, and the relationship between structure (form) and content.
Prerequisite: Music 232.

COURSES OPEN TO JUNIORS, SENIORS, AND GRADUATE STUDENTS

451. Music Supervision. (Omitted 1966-67.) (2 q. hrs.)

This course deals with administrative practices as they pertain to the public school music teacher. Curriculum development, lines of responsibility, administrative functions, budgets, scheduling and other related problems are studied.

455. Band Arranging. Winter. (4 q. hrs.)

This is a course in arranging materials for instrumental ensembles of the public school. Group needs are analyzed and projects are prepared and performed by special ensembles.

456, 457, 458. Ensemble: Chorus, Orchestra, Cecilian Singers, Men's Glee Club. (1 q. hr. for any combination of two organizations in a given quarter.)

460. Marching Band Procedure. Fall. (2 q. hrs.)

Rudiments of marching and playing in field maneuvers. Training the band in pageantry and formations is accomplished through laboratory experiences.

463. Chamber Music of the Instrumental Groups.
Every quarter. (1 q. hr.)

A study is made of literature for instrumental ensembles of standard groupings. Works for teaching and performance purposes serve as materials for the course.

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, 502, 503. Individual Instruction in Literature.
Every quarter. (1 q. hr.)

Voice, piano, organ, band and orchestral instruments; a practical course in performance and interpretation of representative compositions.

504, 505, 506, 507. Individual Instruction.
Every quarter. (2 q. hrs.)

Advanced study in piano, organ, voice, band, and orchestra instruments. Designed to increase personal performance as well as to develop a repertoire.

510. Counterpoint. Fall. (4 q. hrs.)

A basic study of music techniques in polyphonic music. Sixteenth century counterpoint is treated and the style includes that of Palestrina and the English madrigal.

Prerequisite: Music 232.

511. Eighteenth Century Counterpoint. Winter. (4 q. hrs.)

A study of contrapuntal harmonic practices, including inventions, canon, fugue, and forms based upon the chorale.

Prerequisite: Music 510.

512. Composition in Small Forms. Spring. (4 q. hrs.)

Original composition of vocal and instrumental music.

Prerequisite: Music 447.

513. Band Literature for the Public Schools.
(Omited 1966-67.) (2 q. hrs.)

The literature of the high school band is included as well as training materials for beginning groups. Materials are analyzed and surveyed in view of needs and interests. Training as well as cultural materials are included.

514. Materials of the Orchestra. (Omitted 1966-67.) (2 q. hrs.)

Materials of the high school and elementary school orchestra and the more mature groups are treated. Literature is studied with view of training values as well as for performance.

516. Advanced Conducting and Performance Practices.
Fall. (4 q. hrs.)

A study of the styles of choral, band, and orchestra literature as they pertain to the problems of the conductor. The student concentrates in the area of his special interest.

Prerequisite: Music 380, 381.

517. Analytical Techniques. Fall. (4 q. hrs.)

An investigation of structure, stylistic characteristics and compositional techniques.

Prerequisite: Music 447.

530. Chamber Music Literature. Summer. (4 q. hrs.)

Survey of the literature of chamber music, quartet, trio, quintet, etc., in various instrumental combinations. The literature is presented through analysis of formal structure and aesthetic values.

531. Principles of Singing. Spring. (4 q. hrs.)

A consideration of the processes involved in voice production: respiration, phonation, articulation, and resonation. The psychological, physiological, and acoustical problems involved in the teaching of singing.

532. Symphonic Literature. Fall. (4 q. hrs.)

A survey of orchestral music from its beginning. The Manheim composers, the Viennese classics, the Romanticists, the National schools, and late European and American developments.

534. Song Literature. Winter. (2 q. hrs.)

Prerequisites, diction and elementary grammar in either French or German. Techniques of song study, interpretation, and program building.

536. Opera and Oratorio. Spring. (4 q. hrs.)

A survey of oratorio and opera literature from the beginning to contemporary times. Arias will be sung and recorded music will be studied.

538. Literature of the Piano. Winter. (4 q. hrs.)

A study of the piano literature with emphasis on style of various periods and selected composers.

547 (454). Advanced Orchestra. Spring. (4 q. hrs.)

A study of instruments of the orchestra and their usage in orchestral writing. The course serves as an aid to the interpretation of music and builds a knowledge of the basic techniques in writing for instruments.

550. Music in History. Fall. (4 q. hrs.)

A study of the development of the art of music from the beginning through the Medieval, Gothic, Renaissance, and Romantic periods to the modern era.

Credit applicable only to the Group III requirement for the degree M.S. in Ed.

551. Music in Contemporary Culture. Fall. (4 q. hrs.)

Emphasis is placed upon developing judgments and perception through study of ideas and forces which influence composers, comparative listening, discussion and writing about music.

Credit applicable only to the Group III requirement for the degree M.S. in Ed.

555. Teaching Technique of Strings. (2 q. hrs.)

An advanced course in the teaching of string instruments. It is designed to give the teacher of music a course which will strengthen his knowledge of methods, techniques, and training literature for public school teaching.

556. Teaching Techniques in Woodwinds. Fall, Winter and Spring. (2 q. hrs.)

An advanced course in woodwind instruments. It is designed to give the teacher of music advanced techniques in teaching materials and methods of the woodwind instruments.

557. Teaching Techniques in Brass and Percussion. Fall, Winter, and Spring. (2 q. hrs.)

Practical work in the advanced techniques of the brass and percussion instruments. Materials and methods pertaining to the instrumental program in the public schools are studied.

560. Music in the Elementary School. Summer. (4 q. hrs.)

The advanced course in the teaching of music in the elementary school deals with the child with reference to the problems of teaching singing, rhythms, creative expression, listening experiences, and preparation for the instrumental program.

561. Methods of Music in Junior and Senior High School. Summer. (4 q. hrs.)

Curriculum construction, course content, class voice, the general music class, physical facilities, library building, building the program for assemblies in music, community relationships and materials in music are included for detailed study.

578. Performance in Music. Winter and Spring. (4 q. hrs.)

Areas of special interest in preparation for the performance major.

580. Seminar in the Problems of Music Education. (Omitted 1966-67.) (2-4 q. hrs.)

The consideration of special problems in music education is planned on an individual basis. Students present individual problems and work on projects under the guidance of members of the music staff.

581. Music of the Twentieth Century. Spring. (4 q. hrs.)

The chief musical developments in Western Europe and the Americas from 1890 to the present.

595. Thesis. (4 q. hrs.)

APPLIED MUSIC

In the major applied field, at least two years of study prior to college entrance are required. Private instruction is offered in strings: violin, viola, violoncello, and contrabrass; brasses; cornet, trumpet, French horn, trombone, baritone, and bass horn; woodwinds: flute, clarinet, oboe, saxophone, and bassoon; percussion; voice; piano; organ. In the case of organ, the student must demonstrate facility on piano before acceptance.

A student with major or minor in music for the degree B.S. in Ed. must select one of the above as his chief performing medium. Minimum applied requirements are as follows:

Vocal Emphasis

Voice—11 q. hrs.
Piano—6 q. hrs.

Keyboard Emphasis

Piano or Organ—11 q. hrs.
Voice—6 q. hrs.

Instrumental Emphasis

Band or Orchestral Instrument—11 q. hrs.
Piano—3 q. hrs.
Voice—3 q. hrs.

Instrumental Music Minor

Band or Orchestral Instrument—3 q. hrs.

Vocal Music Minor

Voice—3 q. hrs.

CREDIT ORGANIZATIONS IN MUSIC

The student in a music major or minor, after the freshman year, may register for credit in the following ensemble organizations: Band, Chorus, Orchestra, Cecilian Singers, and Men's Glee Club. Elementary education majors may elect a maximum of 4 q. hrs. credit in choral ensembles. Non-music majors or minors may participate in the above listed organizations on an extra-curricular basis. Credit is accumulated each quarter at the rate of ½ q. hr. for each organization, except band and chorus which are one quarter hour credit per quarter. 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 Emphasis—6 q. hrs. credit in instrumental organizations.
Choral Emphasis—6 q. hrs. credit in choral organizations.

Minimum requirements for music minors:

Instrumental Emphasis—3 q. hrs. credit in instrumental organizations.
Choral Emphasis—3 q. hrs. credit in choral organizations.

A maximum of nine quarter hours in ensemble credit may be submitted toward graduation requirements.

Mixed Chorus

Membership in the mixed chorus is by audition. Four meetings per week. Prerequisite: three quarters of participation in Cecilian Singers or Men's Glee Club, or superior choral experiences in high school or other college. On Wednesdays at 4:00 p.m. this group forms the nucleus of all University Choral Union for the study and performance of Oratorios, Masses, and Cantatas to which all interested singers are invited without prerequisite.

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 performance 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.

Stage Band

The stage band offers an opportunity to play the finest in stage band music. Rehearsals are held one evening each week; various programs are performed throughout the year. Membership is open to all students. Audition is required.

Orchestra

The orchestra appears in public concert each year. In addition the orchestra joins the chorus in presenting major productions in opera, oratorio, and other musical occasions. Many instruments are furnished in order to supply a complete instrumentation.

Cecilian Singers

A woman's glee club, open to all qualified women, both majors and non-majors. Two meetings per week.

Men's Glee Club

A men's chorus, open to all qualified men, both majors and non-majors. Two meetings per week.

NON-CREDIT MUSICAL ORGANIZATIONS

Vocal Chamber Group Ensembles

Duets, trios, quartets and mixed groups are organized to enrich the experience of students in this type of singing. These groups appear at various times for public performance.

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.

Recitals

Each student graduating with a major in music is required to present appropriate 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.

PHILOSOPHY

Associate Professor: Penn (Head)
Assistant Professors: Brown, F. S. Taylor

It is an aim of the study of philosophy to develop a perspective and a clearer understanding of the nature and relation of Man, God, the World, and Value. The courses described below explore these areas of concern through examination of primary source materials, lectures, and class discussions.

Course Sequences

Philosophy 250 or Philosophy 301 are 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 (300). Problems of Philosophy. Fall, Winter, and Spring. (4 q. hrs.)

An introduction to philosophic inquiry presented through analysis of selected problems: Knowledge and Truth, the Individual and the State, the Right and the Good, the Interpretation of Religion, God and Nature, and Alternative World Views.

Not open to Freshmen.

270 (400). Logic. Fall, Winter, and Spring. (4 q. hrs.)

An introduction to the principles of sound reasoning and their application to effective communication: logic and language, informal fallacies, definition; deductive and formal logic; empirical scientific method.

Not open to Freshmen.

301. History of Philosophy: Ancient. Fall. (4 q. hrs.)

An historical approach to questions pertaining to Man, God, the World, and Values in which the ideas of philosophers from the Pre-Socratics through Aristotle are examined.

305. History of Philosophy: Medieval. Winter. (4 q. hrs.)

An examination of the ideas of the principal philosophers from Epicurus through St. Thomas Aquinas. The foundations of Christianity and implications for philosophy and theology.

Prerequisite: Philosophy 250 or 301.

306. History of Philosophy: Modern. Spring. (4 q. hrs.)

An examination of philosophical inquiry from Galileo through Kant: The quest for certainty. The foundations of modern science and implications for religion, morals, and political theory.

Prerequisite: Philosophy 250 or 301.

380. Contemporary Philosophy: European. Spring. (4 q. hrs.)

A study of recent movements in European philosophy with emphasis on the development of Analytical Philosophy, Logical Positivism, Phenomenology, and Existentialism.

Prerequisite: At least four quarter hours in Philosophy (Philosophy 306 recommended) or consent of the instructor.

402. Ethics. Winter and Spring. (4 q. hrs.)

A systematic study of the principal types of ethical theory. A consideration of major issues in ethics: The Right and the Good, the nature and validity of moral standards, the problem of conduct, and free will.

Prerequisite: At least four quarter hours in Philosophy.

404. Aesthetics. Fall. (4 q. hrs.)

An analysis of the meaning and value of beauty in terms of an examination of the types, elements, and structure of aesthetic experience; a consideration of significant interpretations of beauty in art; and a critical study of aesthetic criteria.

Prerequisite: At least four quarter hours in Philosophy.

430. Philosophy and Culture: Western. Winter. (4 q. hrs.)

An attempt to understand the character of Western civilization through an analysis of basic philosophical, scientific, religious, and aesthetic assumptions of the major cultures of the traditional Western world.

Prerequisite: At least eight quarter hours in Philosophy or consent of the instructor.

431. Philosophy and Culture: Eastern. Spring. (4 q. hrs.)

An attempt to understand the character of Eastern civilization through an analysis of basic philosophical, religious, and aesthetic assumptions of the traditional Eastern world (India, China, and Japan). The problem of ideological conflict: East versus West.

Prerequisite: Philosophy 430 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.)

550. Philosophic Inquiry: An Adventure of Ideas. Summer. (4 q. hrs.)

An exploration of man's thinking about himself, God, the World and Values presented through an analysis of selected philosophers or schools of philosophy. This course is designed for the student with little or no previous training in philosophy.

Credit applicable only to the Group III requirement for the degree M.S. in Ed.

PHYSICAL EDUCATION FOR MEN

Professors: R. A. Carey, Groves, Masley, O'Brien (Chairman)
Associate Professors: Lowell, Riordan
Assistant Professors: Buckellew, Darling, Elmore, Hussey, Katsimpalis, McCabe, Pinther, Teller, Twenter, Woodall
Instructors: Biggers, R. E. Edwards, Eudeikis, Newcomb, Paap, Vaughan, Wheeler

During the first two years of residence it is required that all students attend physical education classes regularly two hours each week during each quarter of residence unless this requirement is modified by the University Physician. It is the responsibility of the student, not his adviser, 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.

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 chairman of the Physical Education Division.

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 gymnastic 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 44.

SERVICE COURSES

(The credit in service courses is nominal credit.)

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 those service physical education 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 if these courses are prerequisite to other professional courses, unless evidence is presented that the specific content of these courses has been covered in military service.

002. **Baseball** (Varsity). Spring. (1 q. hr.)

003. **Basketball** (Varsity). Winter. (1 q. hr.)

005. **Soccer** (Varsity). Fall. (1 q. hr.)

009. **Football** (Varsity). Fall. (1 q. hr.)

012. **Golf** (Varsity). Spring. (1 q. hr.)

013. **Gymnastics** (Varsity). Winter and Spring. (1 q. hr.)

014. **Tennis** (Varsity). Spring. (1 q. hr.)

015. **Wrestling** (Varsity). Winter. (1 q. hr.)

016. **Track** (Varsity). Fall and Spring. (1 q. hr.)

018. **Swimming** (Varsity). Winter. (1 q. hr.)

100. **Basic Physical Education.** Fall and Winter. (1 q. hr.)
Activities to improve the general fitness and motor ability as related to individual needs.

101. **Prescribed Activities.** Every quarter. (1 q. hr.)
Corrective exercise and adapted activities for students whose physical condition will not permit participation in the regular activity program.

103. **Basketball** (Beginning). Every quarter. (1 q. hr.)

104. **Recreational Team Games.** (Omitted 1966-67.) (1 q. hr.)

105. **Soccer** (Beginning). Fall. (1 q. hr.)

106. **Softball** (Beginning). Spring. (1 q. hr.)

107. **Touch Football** (Beginning). Fall. (1 q. hr.)

108. **Volleyball** (Beginning). Every quarter. (1 q. hr.)

110. **Archery** (Beginning). Fall and Spring. (1 q. hr.)

111. **Badminton** (Beginning). Every quarter. (1 q. hr).
Open to both men and women.

112. **Golf** (Beginning). Fall and Spring. (1 q. hr.)
Open to both men and women.

113. **Gymnastics Apparatus** (Beginning). Winter and Spring. (1 q. hr.)

114. **Tennis** (Beginning). Fall and Spring. (1 q. hr.)
Open to both men and women.

115. **Wrestling** (Beginning). Winter. (1 q. hr.)

116. **Track** (Beginning). Spring. (1 q. hr.)

117. **Stunts and Tumbling.** Winter. (1 q. hr.)

119. **Bowling** (Beginning). Winter and Spring. (1 q. hr.)
Open to both men and women.

140 (118). **Swimming** (Beginning). Every quarter. (1 q. hr.)
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.** Every quarter. (1 q. hr.)

142. **Senior Life Saving.** Winter. (1 q. hr.)
Intermediate swimming or demonstrate level of ability by passing a pre-test.
Prerequisite: P.E.M. 141.

143. **Competitive Swimming and Diving.** Fall. (1 q. hr.)
Prerequisite: P.E.M. 141. Intermediate swimming or demonstrate level of ability by passing a pre-test.

144. **Scuba and Snorkel Diving.** Spring. (1 q. hr.)
Prerequisite: P.E.M. 141 or demonstrate level of ability by passing a pre-test.

145. **Waterpolo.** Winter. (1 q. hr.)
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.** Spring. (1 q. hr.)
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.

190. **Folk and Square Dancing.** Every quarter. (1 q. hr.)
See Physical Education (Women).

191. **Modern Dance** (Beginning). Every quarter. (1 q. hr.)
See Physical Education (Women).

192. **Social Dance.** Every quarter. (1 q. hr.)
See Physical Education (Women).

291. Modern Dance (Intermediate). Every quarter. (1 q. hr.)
See Physical Education (Women).

391. Modern Dance (Composition). Spring. (1 q. hr.)
See Physical Education (Women).

PROFESSIONAL COURSES

(Undergraduate Courses)

120. Basic Activities for Elementary and Secondary Schools. Every quarter. (4 q. hrs.)

Games and activities for the elementary and secondary level including body mechanics; basic exercises; rhythms.

121. Elementary Tumbling, Stunts, and Pyramids. Winter and Spring. (4 q. hrs.)
Basic tumbling skills; vaulting; trampoline.

131. First Aid and Safety Education.
See Physical Education (Women).

132. Leadership in Recreation.
See Physical Education (Women).

150. Introduction to Physical Education. Every quarter. (4 q. hrs.)

General scope, purpose, history, growth and development of physical education.

203. Technique of Teaching Basketball. Every quarter. (2 q. hrs.)

Prerequisite: Physical Education 103 or evidence of a level of competence in the specific skill necessary for teaching.

204. Technique of Teaching Recreational Team Games. (Omitted 1966-67.) (2 q. hrs.)

Prerequisite: Physical Education 104 or evidence of a level of competence in the specific skill necessary for teaching.

205. Technique of Teaching Soccer. Fall. (2 q. hrs.)

Prerequisite: Physical Education 105 or evidence of a level of competence in the specific skill necessary for teaching.

206. Techniques of Teaching Softball. Spring. (2 q. hrs.)

Prerequisite: Physical Education 106 or evidence of a level of competence in the specific skill necessary for teaching.

207. Technique of Teaching Touch Football. Fall. (2 q. hrs.)

Prerequisite: Physical Education 107 or evidence of a level of competence in the specific skill necessary for teaching.

208. Technique of Teaching Volleyball. Every quarter. (2 q. hrs.)

Prerequisite: Physical Education 108 or evidence of a level of competence in the specific skill necessary for teaching.

210. Technique of Teaching Archery. Fall and Spring. (2 q. hrs.)

Prerequisite: Physical Education 110 or evidence of a level of competence in the specific skill necessary for teaching.

211. Technique of Teaching Badminton. Every quarter. (2 q. hrs.)

Prerequisite: Physical Education 111 or evidence of a level of competence in the specific skill necessary for teaching.

212. Technique of Teaching Golf. Fall and Spring. (2 q. hrs.)

Prerequisite: Physical Education 112 or evidence of a level of competence in the specific skill necessary for teaching.

213. Technique of Teaching Gymnastics Apparatus. Winter and Spring. (2 q. hrs.)

Prerequisite: Physical Education 113 or evidence of a level of competence in the specific skill necessary for teaching.

214. Technique of Teaching Tennis. Fall and Spring. (2 q. hrs.)

Prerequisite: Physical Education 114 or evidence of a level of competence in the specific skill necessary for teaching.

215. Technique of Teaching Wrestling. Winter. (2 q. hrs.)

Prerequisite: Physical Education 115 or evidence of a level of competence in the specific skill necessary for teaching.

217. Technique of Teaching Stunts and Tumbling. Winter. (2 q. hrs.)

Prerequisite: Physical Education 117 or evidence of a level of competence in the specific skill necessary for teaching.

228. Organization and Administration of Playgrounds. Spring. (4 q. hrs.)

Administrative problems associated with the operation of playgrounds; personnel; publicity; financing; legal aspects; programming; operation of seasonal type playgrounds.

Open to both men and women.

235. Theory of Prescribed Exercise.
See Physical Education (Women).

236. Music in Relation to the Dance.
See Physical Education (Women).

240 (218). Technique of Teaching Swimming.
Every quarter. (2 q. hrs.)

Prerequisite: Physical Education 140, or Red Cross Certificate or evidence of a level of competence in the specific skill necessary for teaching.

244. Kinesiology. Every quarter. (4 q. hrs.)

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 men and women.

252. Activity Needs and Interests of the Elementary School Child.
See Physical Education (Women).

340. Organization of Grade Level Activities and Methods of Teaching the Activity in Physical Education.
Winter and Spring. (4 q. hrs.)

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.

347. Basketball Coaching. Fall and Spring. (4 q. hrs.)

Offensive and defensive styles of play; fundamentals; individual and team play; rules and strategy; conduct of tournament play.

348. Football Coaching. Fall and Spring. (4 q. hrs.)

Fundamentals of football including blocking, tackling, passing, kicking, offensive and defensive line and backfield play; conditioning; strategy.

349. Track and Field Coaching. Fall and Spring. (4 q. hrs.)

Fundamentals of running and starting; the pole vault; shot; discus; high and broad jumps; javelin; hurdles. Organization of track meets. Study of rules and strategy.

350. Baseball Coaching. Fall and Spring. (4 q. hrs.)

Fundamentals of batting; fielding; playing various positions. Rules, strategy; play situations.

351. Camping. Spring. (4 q. hrs.)

Organization and administration of camps including program planning; counselor problems; camp policies.

357. Golf Coaching. (Omitted 1966-67.) (4 q. hrs.)

Fundamentals of golf including individual and team play; conduct of tournaments; care of equipment; maintenance of golf courses.

358. Gymnastics Coaching. (Omitted 1966-67.) (4 q. hrs.)

Fundamentals of heavy apparatus; rings, trampoline; free exercise.

359. Tennis Coaching. (Omitted 1966-67.) (4 q. hrs.)

Fundamentals of individual and team play; team management; conduct of clinics and tournaments; care of courts and equipment; as applied to varsity and recreational tennis.

360. Coaching of Wrestling. (Omitted 1966-67.) (4 q. hrs.)

The theory and application of wrestling maneuvers. The rules; strategy; conditioning; and training.

451. History and Principles of Physical Education.
Every quarter. (4 q. hrs.)

The historical background of physical education; relationship of physical education to general education; physiological, psychological and sociological principles related to physical education.

452. Physical Education Administration and Supervision.
Every quarter. (4 q. hrs.)

Responsiblities of an administrator in program planning; construction of facilities; purchase and maintenance of equipment; upkeep of gymnasiums and play-fields; interschool and intramural athletics.

454. Football Officiating. (Omitted 1966-67.) (2 q. hrs.)

Study of rules and fundamentals of officiating. Relation of the official to the Illinois High School Athletic Association, coaches, and team members.

455. Basketball Officiating. (Omitted 1966-67.) (2 q. hrs.)

Topics corresponding to those of Physical Education 454, but related to basketball.

COURSES OPEN TO JUNIORS, SENIORS, AND GRADUATE STUDENTS

461. The Prevention and Care of Athletic Injuries. Winter and Spring. (4 q. hrs.)

Athletic injury statistics; primary causes of injuries; analysis of preventive measures; care of injuries in relation to type of tissue involved; taping, padding, and bracing new and recurrent injuries.

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 Physical Education. Fall. (4 q. hrs.)

A critical review of selected studies in the literature of physical education. Evaluation of the literature; study of problems confronting the profession; techniques employed in the historical, philosophical, survey, and experimental methods of research.

Open to both men and women.

520 (495). Course of Study Development in Physical Education. Spring. (4 q. hrs.)

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 (475). Administration of Interschool Athletics. Winter. (4 q. hrs.)

Organization and control of interschool athletics at the national, state, and local levels. Staff; programs; budget; health and safety; facilities.

522 (470). Organization and Administration of Intramural Athletics. Fall. (4 q. hrs.)

The educational philosophy of intramurals; function of administrative personnel; units of participation; scheduling; conduct of intramural programs; records; point systems; and awards.

Open to both men and women.

528. The Organization and Administration of Community Recreation. Spring. (4 q. hrs.)

Recent trends in organizing and administering of 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. Winter. (4 q. hrs.)

Legal responsibilities and liability; construction and maintenance of equipment and facilities; purchase and care of athletic equipment; budget and finance; evaluative procedures; general administrative control.

Open to both men and women.

550. Sports and Physical Education in American Society. Fall and Winter. (4 q. hrs.)

A course designed for the non-major of physical education to give the student an appreciation of the contributions of physical education and athletics in our American culture, and the role of physical education in early civilization.

Credit applicable only to the Group III requirement for the degree M.S. in Ed.

595. Thesis. (4 q. hrs.)

PHYSICAL EDUCATION FOR WOMEN

Professors: Hart, Snow (Chairman)
Associate Professors: Daves, Prybylowski
Assistant Professors: Bally, A. R. Elliott, Flower, Riley
Instructors: Ellis, Fuller, Metcalf, Modisett, Moody, Neal, Nies
Faculty Assistants: J. A. Hopkins, Ray

During the first two years of residence it is required that all students attend physical education classes regularly two hours each week unless this requirement is modified by the University Physician. Before completing the six terms of required physical education, the student shall have taken:

3 courses in sports (some team and some individual)
2 courses in dance
1 course in fundamentals

It is the responsibility of the student, not her adviser, to see that this requirement is observed, and to select her own courses, and sections of those 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. 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

(The credit in service courses is nominal credit.)

098. Courses for Individual Needs. Every quarter. (1 q. hr.)
Courses in an adapted form of activity are offered for students with individual problems.

172. Basketball (Beginning). Winter. (1 q. hr.)

173. Field Hockey. Fall. (1 q. hr.)
Required of all majors.

174. Soccer. Fall. (1 q. hr.)

175. Softball (Beginning). Spring. (1 q. hr.)

176. Speedball. Fall and Spring. (1 q. hr.)
Required of all majors.

177. Volleyball. (Beginning). Spring. (1 q. hr.)

180. Archery. Fall and Spring. (1 q. hr.)
Required of all majors.

181. Badminton (Beginning). Everly quarter. (1 q. hr.)
Required of all majors.

182. Bowling. Fall, Winter, and Spring. (1 q. hr.)
Required of all majors.

183. Golf (Beginning). Fall, Spring, and Summer. (1 q. hr.)
Required of all majors.

184. Recreational Games. Spring. (1 q. hr.)
Required of all majors.

185. Stunts and Apparatus. Fall and Winter. (1 q. hr.)
Required of all majors.

186. Swimming (Beginning). Every quarter. (1 q. hr.)
Required of all majors.

187. Tennis (Beginning). Fall, Spring, and Summer. (1 q. hr.)
Required of all majors.

190. Folk and Square Dance. Every quarter. (1 q. hr.)
Open to both men and women. Required of all majors.

191. Modern Dance (Beginning). Fall, Winter, and Spring. (1 q. hr.)
Open to both men and women. Required of all majors.

192. Social Dance. Every quarter. (1 q. hr.)
Open to both men and women. Required of all majors.

194. Track and Field. Spring. (1 q. hr.)
For physical education majors and minors only, or permission of the instructor. Major requirement.

196. Officiating. Fall. (1 q. hr.)
For physical education majors and minors only. Major requirement.

197. Officiating. Winter. (1 q. hr.)
For physical education majors and minors only. Major requirement.

199. Fundamentals. Every quarter. (1 q. hr.)
Understandings and principles of good body mechanics as applied to everyday life. Awareness of tensions, balance, use of muscles in good and poor body mechanics, posture work. Techniques for relaxation.
Major requirement.

272. Baseball. (Intermediate). Winter. (1 q. hr.)
Prerequisite: Physical Education 172 or permission of the instructor.

273. Field Hockey. (Intermediate). (1 q. hr.)
Prerequisite: Physical Education 173 or permission of the instructor.

277. Volleyball. (Intermediate). Winter and Spring. (1 q. hr.)
Prerequisite: Physical Education 177 or permission of the instructor.

281. Badminton (Intermediate). Every quarter. (1 q. hr.)
Prerequisite: Physical Education 181 or permission of the instructor.

283. Golf (Intermediate). Fall, Spring and Summer. (1 q. hr.)
Prerequisite: Physical Education 183 or permission of the instructor.

286. Swimming (Intermediate). Every quarter. (1 q. hr.)
Prerequisite: Physical Education 186 or permission of the instructor.

287. Tennis (Intermediate). Fall, Spring and Summer. (1 q. hr.)
Prerequisite: Physical Education 187 or permission of the instructor.

291. Modern Dance (Intermediate). Every quarter. (1 q. hr.)
Prerequisite: Physical Education 191 or permission of the instructor. Required of all majors.

315. Games for the Elementary School. Winter. (1 q. hr.)
Prerequisite: Physical Education 130. For physical education majors only.

383. Golf (Advanced). Fall, Spring and Summer. (1 q. hr.)
Prerequisite: Physical Education 283 or permission of the instructor.

386. Swimming (Advanced). Spring. (1 q. hr.)

387. Tennis (Advanced). Fall, Spring and Summer. (1 q. hr.)
Prerequisite: Physical Education 287 or permission of the instructor.

391. Modern Dance (Composition). Spring. (1 q. hr.)
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. Required of all majors.

392. Rhythm Analysis. Winter. (1 q. hr.)
An analysis of, and practice in, the rhythm factors in movement with special emphasis on the basic dance steps and skills of the folk, square, and social dance forms.
Prerequisite: Physical Education 391. For physical education majors and minors only, or permission of the instructor. Major requirement.

PROFESSIONAL COURSES

(Undergraduate Courses)

130. Plays, Games and Activities of Low Organizations. Fall and Winter. (4 q. hrs.)
Games, stunts, athletic and rhythmic activities for the elementary grade children as basic to the high school activities.
Open to both men and women.

131. First Aid and Safety Education. Winter and Spring. (4 q. hrs.)
This course consists of (1) Regulation American Red Cross First Aid methods and (2) Safety in Schools, particularly in physical education activities.
Open to both men and women.

132. Leadership in Recreation. Spring. (4 q. hrs.)
A study of basic philosophy of recreation, of leadership qualities, and of areas, activities and interests in the field of recreation; practical experience in party planning and administration, camping, and outdoor cookery.
Open to both men and women.

228. Organization and Administration of Playgrounds. Spring. (4 q. hrs.)
See Physical Education (Men).

233. Technique of Team Sports—Soccer, Speedball, and Hockey. Fall. (4 q. hrs.)
An analysis of the basic techniques of hockey, soccer, speedball. The selection of materials adaptable to the needs of particular groups.
Prerequisite: Activity courses in the above sports or permission of the instructor.

234. Technique of Team Sports—Basketball, Volleyball, and Softball. Winter. (4 q. hrs.)
An analysis of the basic techniques of basketball, volleyball, and softball. The selection of materials adaptable to the needs of particular groups.
Prerequisite: Activity courses in the above sports or permission of the instructor.

235. Theory of Prescribed Exercise. Every quarter. (4 q. hrs.)
Preventive and modified activities for the physically handicapped child. Theory and practice of an orthopedic examination are included.
Open to both men and women. Prerequisite: Zoology 225 and Physical Education 244.

244. Kinesiology. (4 q. hrs.)
See Physical Education (Men.)
Prerequisite: Zoology 225.

252. Activity Needs and Interests of the Elementary School Child. Spring and Summer. (4 q. hrs.)
The needs in terms of growth, development, and adjustment of children of the elementary grades. How to choose activities that will contribute most to the satisfaction of these needs.
Open to both men and women. Prerequisite: Physical Education 130 or permission of instructor.

300. Advanced and Instructor's First Aid. Spring. (4 q. hrs.)
This course includes (1) Advanced First Aid procedures as organized by the American Red Cross and (2) Methods and materials of teaching First Aid.
Open to both men and women. Prerequisite: Physical Education 131 or Elementary Red Cross certificate.

336. Problems in Developing Programs in Modern and Folk Dance. Winter. (4 q. hrs.)
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. Prerequisite: Physical Education 191, 291, 391 and 190.

345. Physical Education Activities for the Elementary School. (Omitted 1966-67.) (4 q. hrs.)
Guidance in analyzing the students' own school situations. Methods and materials for planning the physical education program.

346. Course Planning and Organization of Square and Social Dance. Fall and Summer. (4 q. hrs.)
Theory and methods for Junior and Senior High Schools basic to course planning and teaching. Analysis of music for dance and dance skills. Survey of literature.
Open to both men and women. Prerequisite: Physical Education 190 and 192.

351. Camping. (4 q. hrs.)
See Physical Education (Men).

353. Technique of Individual Sports—Archery, Badminton, Tennis, and Stunts. Spring and Summer. (4 q. hrs.)
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.

354. Physical Education for High School Girls. (Omitted 1966-67.) (4 q. hrs.)
Methods of presenting physical education activities on the Junior and Senior High School level. Course is designed for the teacher not trained in Physical Education. No credit toward a major in physical education.

355. Field Work in Recreation. (Omitted 1966-67.) (4 q. hrs.)
Students are assigned to a public or private agency in the community for the purpose of organizing and conducting specific activities or groups under supervision.
Open to both men and women.

356. Outing Crafts. Summer. (4 q. hrs.)
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. Fall, Winter, Spring. (2 q. hrs.)
A study of physical education as it relates to the total education of the elementary school child. Emphasis is on the developmental approach to physical education.

361. Physical Education Activities for Elementary Schools. Fall. (4 q. hrs.)
A study of body mechanics and games (exclusive of sports, rhythms, stunts, apparatus, and tumbling). Emphasis is on the analysis of and practice in such basic skills as throwing, catching, dodging, striking an object.
Prerequisite: Physical Education 360 or 130. Open to both men and women.

362. Rhythmical Activities for Elementary Schools. Spring. (4 q. hrs.)
A study of dance and creative rhythms in the elementary school

curriculum. Emphasis is on basic locomotor and axial skills in movement as well as the specific skills in folk and square dance.

Prerequisite: Physical Education 360 or 130. Open to both men and women.

363. Tumbling and Apparatus Activities for Elementary Schools. Winter. (4 q. hrs.)

A study of tumbling and apparatus in the elementary school curriculum. Analysis of and practice in spotting techniques in mat and apparatus work is stressed.

Prerequisite: Physical Education 360 or 130. Open to both men and women.

410 (451). History and Principles of Physical Education. Fall and Winter. (4 q. hrs.)

The study of physical education from ancient to modern times, as it has met the needs of the people of each generation. An interpretation of the objectives of physical education in accordance with the objectives of general education in modern society.

411 (456). Organization and Administration of Physical Education. Winter and Spring. (4 q. hrs.)

Study of effective procedures in organization and administration of the Physical Education program. Students prepare a curriculum on the elementary, junior and senior high school level based upon principles studied in Physical Education 410.

Prerequisite: Physical Education 410.

413 (458). Objectives of Physical Education and Administration of the Program. Spring. (4 q. hrs.)

This course is intended for students in the P.E. 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. Fall and Spring. (4 q. hrs.)

Selection and administration of physical measurements and tests commonly used in physical education.

Open to both men and women.

457. Analysis of Human Motion. (Omitted 1966-67.) (4 q. hrs.)

Study of mechanical principles as they relate to body movement, and of body structure and function as they relate to human motion.

Includes specific analysis of technique involved in the execution of sports, skills and of basic body movement.

Prerequisite: Physical Education 244. Open to both men and women.

495. Course of Study Development in Physical Education. Spring. (4 q. hrs.)

See Physical Education (Men).

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 Physical Education. Fall. (4 q. hrs.)

See Physical Education (Men).

510. Supervision of Physical Education. (Omitted 1966-67.) (4 q. hrs.)

Techniques of supervision of physical education in the elementary and secondary school; 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. Spring. (4 q. hrs.)

A study of psychological principles, laws of learning, and their application to physical education.

Open to both men and women.

513. Planning the Recreation Program. (Omitted 1966-67.) (4 q. hrs.)

Exploration of philosophical viewpoints underlying a recreational program; criteria for evaluating the recreational potential of a community; formulation of plans for meeting various recreational needs.

Open to both men and women.

514 (459). Current Trends in the Teaching of Physical Education in the Elementary and Junior High School. (Omitted 1966-67.) (4 q. hrs.)

Materials, organization and program of physical education in the

elementary and junior high school. Integration of physical education with general education.

Prerequisite: Physical Education 252 or equivalent. Open to both men and women.

528. The Organization and Administration of Community Recreation. Spring. (4 q. hrs.)
See Physical Education (Men).

551. Historical Development of Dance. Fall. (4 q. hrs.)
A study of the relationship of dance to the other arts. Emphasis is given to the socio-cultural implications of the arts throughout the ages of mankind and the specific role of dance in this development.

Credit applicable only to the Group III requirement for the degree M.S. in Ed.

560. Advanced Theory and Analysis of Team Sports. Summer. (4 q. hrs.)
Study of techniques, organization, and team strategy of selected team sports as they relate to the learner and the Physical Education Program.

Prerequisite: Understanding and/or experience in the sports included.

561. Advanced Theory and Analysis of Individual Sports. (Omitted 1966-67.) (4 q. hrs.)
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 areas studied.

562. Problems in the Administration of Girls' Physical Education. Summer. (4 q. hrs.)
Provides an opportunity for teachers and administrators to review the current ideas and best practices in the field of physical education. Problems in the administrative field will be studied.

563. Philosophy of Physical Education. Winter. (4 q. hrs.)
Study of principles of physical education with application to current problems in the field.

Open to both men and women.

595. Thesis. (4 q. hrs.)

PHYSICAL SCIENCE

(Taught by members of the Departments of Chemistry and Physics.)

UNDERGRADUATE COURSES

100. Physical Science. Fall, Winter, and Spring. (4 q. hrs.)
Basic concepts of physical science are presented through study of topics selected from physics and astronomy.

Physical Science 100 and 101 may be taken in either order or both may be taken simultaneously. Credit may not be accepted toward a degree for both Physical Science 100 and Physics 130.

101. Physical Science. Every quarter. (4 q. hrs.)
Principles of chemistry having particular application in the field of elementary education are presented.

Credit may not be accepted toward a degree for both Physical Science 101 and Chemistry 120.

102. Physical Science. (Omitted 1966-67.) (4 q. hrs.)
A continuation of 100 and 101. A study of electricity, atomic structure, radioactivity, isotopes, and the chemistry of foods.

Prerequisite: Physical Science 100, 101.

These courses are restricted to students in the curriculum in elementary education.

340. Methods of Teaching Physical Sciences. Winter. (4 q. hrs.)
The presentation of science lessons and the examination of current literature and new approaches to chemistry and physics. A unit on methods and materials for teaching mathematics is included.

Prerequisite: Admission to teacher education.

PHYSICS

Professors: Lefler (Head), P. S. Smith, Waddell
Associate Professors: Breig, Cloud, Eisenhour
Assistant Professors: Hoffman, Taitt
Instructors: D. K. Fowler, Keller
Faculty Assistant: Gibson

Note: All courses except where otherwise indicated in the course description have two lecture periods and two laboratory periods a week.

UNDERGRADUATE COURSES

120, 121, 122. Physics for Music Students. Fall, Winter, Spring. (4 q. hrs. for each course.)
Physics 120, astronomy, mechanics, and heat; Physics 121, sound

and acoustics as applied to music; Physics 122, light, electricity, and modern physics. Enrollment limited to music majors or minors.

130, 131, 132. First Year College Physics. Every quarter. (4 q. hrs. for each course.)

Physics 130, mechanics; 131, wave motion, heat, and electricity; 132, magnetism, light, and nuclear physics.

Acceptable as a year of laboratory science in any curriculum. These courses should be taken in the order listed.

236. Physical Optics and Quantum Theory. Every quarter. (4 q. hrs.)

This is a continuation of the first year college physics sequence. Polarization; interference; diffraction; atomic models; spectra; relativity; X-rays; matter waves.

Prerequisite: First year college physics.

Co-requisite: Mathematics 235.

239. Mechanics. Fall and Winter. (4 q. hrs.)

Motion of a particle in one dimension; simple harmonic motion; damped motion; forced harmonic oscillator; vector algebra; vector operators in various coordinate systems.

Prerequisite: First year college physics and Mathematics 235, co-requisite Mathematics 236. Four hours a week.

240. Mechanics. Winter and Spring. (4 q. hrs.)

Conservative fields; central force motion; motion of a system of particles; gravitational potential; gravitational fields, vibrating string; accelerated coordinate systems.

Prerequisite: Physics 239. Four hours a week.

250. Electronics. Spring. (4 q. hrs.)

A study of the fundamentals of tube and transistor electronics. Emphasis is on amplifiers and the special circuits used in applied science, such as cathode followers, multivibrators and timing circuits. Four laboratory periods a week.

Prerequisite: First year college physics and Mathematics 235.

341. Electricity and Magnetism. Fall and Spring. (4 q. hrs.)

Coulomb's Law; vectors; electric field strength; potential; Gauss' Law; capacity; dielectrics; solutions of electrostatic problems; electrostatic energy; DC circuits and instruments.

Prerequisite: First year college physics and Mathematics 235, 236. Four hours a week.

342. Electricity and Magnetism. Winter. (4 q. hrs.)

Magnetic field due to steady currents; inductance; changing electric currents; magnetic materials; electrical equipment; L, R and C circuits; Maxwell's Equations and radiation.

Prerequisite: Physics 341. Four hours a week.

COURSES OPEN TO JUNIORS, SENIORS, AND GRADUATE STUDENTS

460. Electrical Measurements. (Omitted 1966-67.) (4 q. hrs.)

DC and AC circuit analysis, current and ballistic galvanometers; bridge and potentiometer circuits; measurement of resistance, inductance, capacitance, and electromotive force; thermoelectromotive force; magnetic measurements. Four laboratory periods a week.

Prerequisite: First year college physics, Mathematics 235 and 236.

461, 462. Experimental Physics. Fall and Winter. (4 q. hrs. for each course.)

Experiments from various phases of physics. Emphasis is placed upon selection of the experiment, planning the procedure, analyzing the results, and reporting. Four laboratory periods a week.

Prerequisite: Physics 466 and one year of calculus.

465. Heat and Thermodynamics. Spring. (4 q. hrs.)

Themometry, thermodynamic laws; changes of phase; gas laws; mechanical relations and heat engines; adiabatic transformations; entropy, kinetic theory and statistical mechanics.

Prerequisite: First year college physics and one year of calculus. Four hours a week.

466. Atomic Physics. Spring. (4 q. hrs.)

Atomic Structure and the origin of spectral lines, energy levels, introduction to quantum mechanics, the one electron atom, shells, subshells, angular momentum selection rules, multiplet levels, L S coupling, X-rays, compton effect.

Prerequisite: First year college physics and one year of calculus. Four hours a week.

467. Introduction to Quantum Mechanics. Fall. (4 q. hrs.)

Limitations of classical mechanics; Schroedinger equation; harmonic oscillator; uncertainty principle; exclusion principle; periodic table; perturbation theory; hydrogen atom; electron spin.

Prerequisite: First year college physics and one year of calculus. Four hours a week.

468. Nuclear Physics. Winter. (4 q. hrs.)

Fundamental nuclear particles; nuclear forces and interactions; mass-energy equivalence; fission; fusion; radioactivity; theoretical nuclear models; nuclear detectors; nuclear accelerators; cosmic rays.

Prerequisite: Physics 466 or 467 or permission of the instructor. Four hours a week.

469. Solid State Physics. Spring. (4 q. hrs.)

Crystal structure; thermal properties of solids; dielectric and magnetic properties of solids; superconductivity; free electron theory of metals; band theory of metals; semiconductors and insulators; surface phenomena; imperfections in crystals.

Prerequisite: Physics 466 or 467 or permission of the instructor. Four hours a week.

480, 481, 482. Special Physics Problems. Offered on demand. (4 q. hrs. for each course.)

Selected problems based on the student's previous training and interests. Admission and assignment of problems by arrangement. Laboratory, reading, and conference.

Prerequisite: 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.)

515. Mechanics. (Offered on demand.) (4 q. hrs.)

Generalized coordinates; normal coordinates; accelerated reference frames; Euler's equations; moving coordinate systems; vibrating string; center of mass coordinates; fluids.

Prerequisite: Physics 240. Four hours a week.

520. Mathematical Physics. (Offered on demand.) (4 q. hrs.)

Special differential equations; special functions; elements of complex integration; tensors; calculus of variations; eigen values and eigen functions; matrices and matrix algebra; numerical calculations.

Prerequisite: Physics 240 and 342. Four hours a week.

534. Theoretical Mechanics. Offered on demand. (4 q. hrs.)

Vectors; laws of motion; particle statics and dynamics; central field motion; energy and momentum principles for a particle and for systems of particles; mechanics of a rigid body.

Prerequisite: Physics 240 or equivalent and Mathematics 351. Four hours a week.

535. Theoretical Mechanics. Offered on demand. (4 q. hrs.)

Constrained motion, oscillatory motion; deformable bodies; fluid mechanics; generalized coordinates; Lagrange's equations; Hamilton's canonical equations.

Prerequisite: Physics 534. Four hours a week.

540. Electrodynamics. (Offered on demand.) (4 q. hrs.)

Electrostatic; general methods of solving potential problems; boundary value problems; multipoles, dielectrics; magnetostatics.

Prerequisite: Physics 342. Four hours a week.

541. Electrodynamics. (Offered on demand.) (4 q. hrs.)

Maxwell's equations; electromagnetic waves; wave guides and resonant cavities; radiation and diffraction; special theory of relativity.

Prerequisite: Physics 540. Four hours a week.

542. Electrodynamics. (Offered on demand.) (4 q. hrs.)

Relativistic particle dynamics; collisions, energy loss and scattering; radiation by moving charges; multipole fields; radiation damping, self-fields, scattering and absorption.

Prerequisite: Physics 541. Four hours a week.

560. Quantum Mechanics. (Offered on demand.) (4 q. hrs.)

A study of quantum eigen values and eigen functions of the Schrodinger equation for various central fields; angular momentum eigen functions; perturbations dependent on and independent of time.

Prerequisite: An undergraduate major in physics. Four hours a week.

561. Quantum Mechanics. (Offered on demand.) (4 q. hrs.)

The quasi-classical case; spin and spinors; identify and exchange interaction of particles; the hydrogen atom and extension of the Schrodinger equation to other atoms and effects, the diatomic molecule and vibrational and rotational spectra; polyatomic molecules.

Prerequisite: Physics 560. Four hours a week.

562. Quantum Mechanics. (Offered on demand.) (4 q. hrs.)

Elastic and inelastic collisions; Feynman notes; spin and statistics, relativity, Fermi coupling and the failure of parity; pion-nucleon coupling; strange particles; fundamental laws of electromagnetics and B-decay coupling.

Prerequisite: Physics 561. Four hours a week.

580. Current Literature in Physics. Offered on demand. (4 q. hrs.)

Reading, conference, oral reports.

Prerequisite: Two years' work in physics.

590. Mathematical Physics. (Offered on demand.) (4 q. hrs.)

Waves in an elastic medium; motion of fluids; scalar and vector fields and the variational principle; complex numbers and complex variables; Cauchy's Theorem; branch points and branch lines; Riemann surfaces; calculus of residues; gamma and elliptic functions; Fourier transforms; differential equations and separable coordinates; series solutions and the Wronskian; integral representations of differential equations.

Prerequisite: Physics 520. Four hours a week.

591. Mathematical Physics. (Offered on demand.) (4 q. hrs.)

Boundary conditions and eigen functions; Green's functions and generating functions; Green's functions for steady waves and for diffusion; integral equations of physics; kernels; Fredholm Equations; approximate methods; La Place's and Poisson's Equations in two and three dimensions; integral and variational techniques for solving wave equations.

Prerequisite: Physics 590. Four hours a week.

595. Thesis. (4 q. hrs.)

POLITICAL SCIENCE

Associate Professors: Beall (Head), Bloss, Nichols
Assistant Professors: Hall, Soderberg

UNDERGRADUATE COURSES

100. Elements of Government. Fall, Winter, and Spring. (4 q. hrs.)

Comparative analysis of the institutions and ideologies of contemporary democratic and dictatorial governments designed to provide a systematic overview of the field.

110. American National Government: (Constitutional foundations). Fall, Winter, and Spring. (4 q. hrs.)

Fundamental principles of the American Constitutional system. A treatment of basic concepts of government; constitutionalism; federalism; civil liberties; citizenship; nominations, elections, and political parties.

111. American National Government: (Policy Making and Administration). Fall, Winter, and Spring. (4 q. hrs.)

Congress, the Presidency, Bureaucrats, and the Judiciary. National policies and administration in foreign affairs, defense, business regulation, agriculture, housing, education, etc.

112. State and Local Government. Fall, Winter, and Spring. (4 q. hrs.)

Legal authority, structure, leadership and functions of state, county, city, township, and special district governments. The Illinois State Constitution is analyzed.

220. Introduction to International Relations. Fall. (4 q. hrs.)

An examination of the nature of the nation-state system and of the sources of conflict in the international community.

Prerequisite: Political Science 100 or 110 or consent of the instructor. Not open to freshmen.

221. Contemporary World Politics. Winter. (4 q. hrs.)

An analysis of the course of world politics since World War II with attention given to the impact of continuing crises upon the policies of the major powers.

Prerequisite: Political Science 220 or consent of the instructor. Not open to freshmen.

222. International Organization. Spring. (4 q. hrs.)

Development, scope, and functions of general international organization. Emphasis upon the United Nations system and regional organizations such as the European Economic Community.

Prerequisite: Political Science 220 or consent of the instructor. Not open to freshmen.

230 (330). Comparative Governments: The United Kingdom. Fall. (4 q. hrs.)

The political system of the United Kingdom of Great Britain and Northern Ireland with particular attention to the nature of the Constitution, the party system, Parliament, the Crown, and the Commonwealth of Nations.

Prerequisite: Political Science 100 or 110 and 111 or consent of the instructor.

231 (331). Comparative Governments: Western Europe. Winter. (4 q. hrs.)

The political systems of France, West Germany, and/or other countries of Western Europe selected by the instructor.

Prerequisite: Political Science 100 or 110 and 111 or consent of the instructor.

232 (332). Comparative Governments: The U.S.S.R. Spring. (4 q. hrs.)

The political system of the Union of Soviet Socialist Republics; the role of the Communist Party, the nature of the constitutional system, and the evolution of Marxism-Leninism-Stalinism.

Prerequisite: Political Science 100, 110 and 111 or consent of the instructor.

280. Introduction to Political Analysis. Fall. (4 q. hrs.)

Analytical approaches to the study of Western and Non-Western political systems with emphasis on political problems, functions and processes.

Prerequisite: Political Science 100 or 110 and 111 or consent of the instructor.

336. Governments of Asia. (Omitted 1966-67.) (4 q. hrs.)

The growth and development of political concepts and institutions in the three major powers of Asia—China, Japan, and India. Limited consideration of problem areas in other Asian states.

Prerequisite: Political Science 100 or 110 or consent of the instructor.

364. Problems of State and Local Government. Fall. (4 q. hrs.)

Case studies of selected problems. Individual student research on a current problem of state or local government.

Prerequisite: Political Science 112 or consent of the instructor.

365. Political Behavior. Winter. (4 q. hrs.)

Analysis of individual and group behavior in the political context with emphasis on the literature of current research in American political institutions and processes.

Prerequisite: Political Science 110, 111, or consent of the instructor.

366 (466). Political Parties and Elections. Spring. (4 q. hrs.)

Political parties, party systems, policies, and electoral arrangements in the United States and abroad, with particular attention to the organization, functions, and methods of American political parties and to the interrelationships of electoral and party systems.

Prerequisite: Political Science 100 or 110 and 111 or consent of the instructor.

367. Interest Groups. (Omitted 1966-67.) (4 q. hrs.)

Analysis of the role and techniques of labor, business, agrarian, ethnic, and other groups in the political process. Emphasis on American groups and political institutions.

Prerequisite: Political Science 100 or 110 and 111 or consent of the instructor.

369. The Legislative Process. Spring. (4 q. hrs.)

A comprehensive examination of the institutional structures and functions of legislative bodies with emphasis on American examples.

Prerequisite: Political Science 100 or 110 and 111 or consent of the instructor.

370. American Foreign Policy. Fall. (4 q. hrs.)

A consideration of factors shaping contemporary American foreign policies. The conduct of American foreign relations and major problems of implementing American policy decisions are analyzed.

Prerequisite: Political Science 220, 221, or 222 or consent of the instructor.

COURSES OPEN TO JUNIORS, SENIORS, AND GRADUATE STUDENTS

451. American Constitutional Law. Spring. (4 q. hrs.)

Supreme Court decisions on: Judicial Review, Federalism, Powers of Congress, Powers of the President, Contracts, Commerce, Taxation, Citizenship, Speech, Press, Religion, Communism, Race Discrimination, Criminal Procedure.

Prerequisite: Political Science 110, 111, or History 233, 234, 235, or consent of the instructor.

461. Statistics and Research Techniques in the Behavioral Sciences. Spring. (4 q. hrs.)

Programmed as Social Science 461.

465. Public Administration. Winter. (4 q. hrs.)

Growth of public administration, the system of responsibility and accountability, relationship of administration and politics, technical aspects of administration, problems of administrative leadership and direction.

Prerequisite: Political Science 100, 110, 111, 112, or consent of the instructor.

480. Politics of the Emerging Nations. Fall. (4 q. hrs.)

A comparative survey of the politics and governments of the emerging nations in Africa, Asia, the Middle East, and Latin America.

Prerequisite: Political Science 100 or 110 and 111 or consent of the instructor.

481. Latin American Government and Politics. Winter. (4 q. hrs.)

A systematic study of the constitutions and formal structure of Latin-American governments; and an analytical and interpretive examination of the political processes which underlie them.

Prerequisite: Political Science 100 or 110 and 111 or consent of the instructor.

490. Political Theory: Ancient and Medieval. Fall. (4 q. hrs.)

The origins and evolution of major concepts in political thought from the time of Pericles through the Conciliar Movement.

Restricted to majors in History, Social Science, Political Science, or consent of the instructor.

491. Political Theory: Renaissance and Modern. Winter. (4 q. hrs.)

A continuation of the study of political thought from the time of Niccolo Machiavelli through Karl Marx.

Restricted to majors in History, Social Science, Political Science or consent of the instructor.

492. Contemporary Political Theory. Spring. (4 q. hrs.)

Contemporary concepts in Western Political thought. Emphasis upon the development of modern conservatism, liberalism, Marxism, and national socialism. Independent research interests encouraged.

Restricted to majors in History, Social Science, Political Science or consent of the instructor.

493. Latin American Political Theory. Spring. (4 q. hrs.)

Latin American political thought beginning with its origins in Spain and Portugal. The colonial period and independence; the adaptations and changes successively brought about under "the republics."

Restricted to majors in History, Latin American Studies, Social Science, Political Science or consent 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.)

550. The American Presidency. Summer 1966. (4 q. hrs.)

Development, powers and limits of the American Presidency, with emphasis upon Presidential decision making.

Credit applicable only to the Group III requirement for the degree M.S. in Ed.

PSYCHOLOGY

Professor: Rothschild
Associate Professors: Chahbazi (Head), Crane, Looby, Stackhouse
Assistant Professor: Coe

UNDERGRADUATE COURSES

231. Introduction to Psychology. Every quarter. (4 q. hrs.)

Research theories and methods; principles of motivation, emotion and perception; survey of normal and abnormal adjustment; nature of intelligence testing.

234. Advanced General Psychology. Every quarter. (4 q. hrs.)

A continuation of Psychology 231, including a more detailed study of learning, memory and recall, and thinking.

Prerequisite: Psychology 231.

261. Statistical Methods of Psychology. Every quarter. (4 q. hrs.)

Application of statistical methods to behavioral data.

Prerequisite: Psychology 231.

281. Experimental Techniques I. Every quarter. (4 q. hrs.)

Fundamental techniques of stimulus control and response measurement.

Prerequisite: Psychology 231.

282. Experimental Techniques II. Every quarter. (4 q. hrs.)

A continuation and expansion of Psychology 281.

Prerequisite: Psychology 231 and 281.

351. Applied Psychology. Every quarter. (4 q. hrs.)

Psychological principles applied to the professions, industry, and retail business.

Prerequisite: Psychology 231.

352. Adolescent Psychology. Winter and Spring. (4 q. hrs.)

The psychology of the adolescent in relation to: his family; his friends; the opposite sex; delinquent behavior; growth and development; his attitudes; his interests; and his values.

Prerequisite: Psychology 231.

360. Psychological Measurements: Fundamental Principles. Winter, Spring, and Summer. (4 q. hrs.)

Statistical background, administration, interpretation and evaluation of interest, aptitude, intelligence and personality tests.

Prerequisite: Psychology 231.

447. Social Psychology. Winter, Spring, and Summer. (4 q. hrs.)

Biological and social foundations of behavior, individual factors in adjustment, institutional behavior and conflict situations.

Prerequisite: Psychology 231.

COURSES OPEN TO JUNIORS, SENIORS, AND GRADUATE STUDENTS

450. Psychology of Exceptional Children. Spring and Summer. (4 q. hrs.)

Psychological diagnosis of, and therapeutic programs for, children who deviate from the normal.

Prerequisite: Psychology 231.

451. Abnormal Psychology. Fall, Spring, and Summer. (4 q. hrs.)

Nature and dynamics of organic and functional neurosis and psychosis.

Prerequisite: Psychology 231.

452. Psychological Measurements: Intelligence Testing. Spring. (4 qr. hrs.)

Advanced study of individual intelligence tests; practice in administration and interpretation.

Prerequisite: Psychology 231 and Psychology 360.

455. Mental Hygiene. Winter and Summer. (4 q. hrs.)

Stresses the problem of maintaining mental health as related to the home, school, civic and other social situations.

Prerequisite: Psychology 231.

SOCIAL SCIENCE

(The courses in this section are taught by members of the Departments of Economics, History, Political Science and Sociology.)

UNDERGRADUATE COURSES

340. Methods and Materials in the Social Studies in the Secondary School. Fall, Winter, and Spring. (4 q. hrs.)

Aims and objectives of social studies teaching; nature and scope of social studies materials; methods employed in teaching the social studies. Analysis, evaluation, and application of methods. Techniques for appraising and selecting textbooks and other teaching aids.

Prerequisite: Admission to teacher education.

COURSES OPEN TO JUNIORS, SENIORS, AND GRADUATE STUDENTS

461. Statistics and Research Techniques in the Behavorial Sciences. Spring. (4 q. hrs.)

Basic methods of statistical research; measures of central tendency; dispersion; normal and binomial distribution; correlation; influence sampling; polling and interviewing.

SOCIOLOGY

Professor: W. G. Wood (Head)
Assistant Professors: Dale, Delaney, Moore, Timblin

UNDERGRADUATE COURSES

271. Principles of Sociology. Every quarter. (4 q. hrs.)

Social relations and institutions; society as communication; competitive co-operation and functional patterns; spatial structure of society; social change; social disorganization.

272. Social Problems and Social Trends. Winter and Spring. (4 q. hrs.)

The nature of social problems; the problem of adjustment to external nature; population problems; control and care of defectives; the family and child welfare; crime; the meaning and agencies of social control.

365. Social Systems and Social Roles. Winter. (4 q. hrs.)

A consideration of the nature of individual social roles, social interaction, problems of mental health as related to the social milieu, culture and personality.

Prerequisite: Sociology 271 or consent of the instructor.

366. The Sociology of Religion. Spring. (4 q. hrs.)

The development and function of religious groups and institutions; an analysis of the functional significance of beliefs and rituals of selected systems of religious thought.

Prerequisite: Sociology 271 or consent of the instructor.

368. Public Opinion and Propaganda. Fall. (4 q. hrs.)

Analysis of the opinion making process; methods of opinion and attitude manipulation; propaganda techniques and methods of public opinion measurement.

Prerequisite: Sociology 271 or consent of the instructor.

381. The Sociology of Urban Life. Spring. (4 q. hrs.)

A systematic study of urban structure and organization; urban planning and renewal as related to problems of ecology; growth and development of urban communities.

Prerequisite: Sociology 271 or consent of the instructor.

COURSES OPEN TO JUNIORS, SENIORS, AND GRADUATE STUDENTS

452. The Development of Sociological Thought. Winter. (4 q. hrs.)

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.

461. Statistics and Research Techniques in the Behavioral Sciences. Spring. (4 q. hrs.)

Programmed as Social Science 461.

472. Social Stratification. Fall. (4 q. hrs.)

The problems of status, power, differential behavior; social mobility created by class differences in American society.

Prerequisite: Sociology 271 or consent of the instructor.

473. Marriage and the Family. Every quarter. (4 q. hrs.)

The historical background of the modern family; the impact of culture and social change on marriage and the family; personality factors involved in marriage; family disorganization.

474. The Social Problems of Minority Groups. Winter. (4 q. hrs.)

A survey of the minority groups in the United States; their history, relationship to other groups, and their contributions to American culture.

Prerequisite: Sociology 271 or consent of the instructor.

475. Crime and Juvenile Delinquency. Fall. (4 q. hrs.)

The problems of crime and delinquency; etiological factors in crime and delinquency; prevention, penology and rehabilitation.

Prerequisite: Sociology 271 or consent of the instructor.

491. Individual Problems in Sociology. Spring. (4 q. hrs.)

Special readings and topics in sociology; substantive evidence of independent scholarship is required.

Restricted to majors in Sociology and Social Science.

SPANISH

(See Foreign Languages)

SPEECH

Associate Professors: D. P. Garner (Head), J. J. Hopkins, McClerren, Norberg, Schneider, Tame
Assistant Professors: Hadwiger, Rundle, C. N. Smith, Wiley
Instructors: Cash, Leathers, C. G. Russell

UNDERGRADUATE COURSES

131. Speaking in Public. Every quarter. (4 q. hrs.)

Fundamental principles and methods of selecting, analyzing, evaluating, organizing, developing, and communicating information, evidence, and points of view for constructive influence in speech situations.

140. Parliamentary Law. Every quarter. (1 q. hr.)

The history, theory, and practice of democratic, orderly conduct of business through application of accepted rules of procedure.

230. Persuasion. Fall, Winter, and Spring. (4 q. hrs.)

A study of attention, credibility, emotion, identification, motivation, rationalization, and suggestion as means of influencing the beliefs and actions of other persons.

Prerequisite: Speech 131 or consent of Department Head.

232. Discussion. Fall, Winter, and Spring. (4 q. hrs.)

A study of the nature of discussion and bases of belief, through lecture and class discussions in subject-problems, preparation, process, leadership techniques, participation, types and forms, and evaluation.

234 (332). Debate. Fall and Winter. (4 q. hrs.)

The study of the responsibility of the advocate in investigation and analysis evidence; structure of argument; reasoning and refutation. Application of these principles in practice debates.

Prerequisite: Speech 131 or consent of Department Head.

252. Introduction to Mass Communications (Broadcasting). Fall. (4 q. hrs.)

A survey of the origin and growth of broadcasting, the social and legal bases of mass communication operations, and the physical nature of equipment of Radio, Television, and Motion Pictures.

320. Speech Criticism. Spring. (4 q. hrs.)

A comparative study in which standards of judgment deriving from the social interaction of a speech situation are applied to public addresses to determine the immediate or delayed effect of the speeches upon specific audiences, and ultimately, upon society.

Prerequisite: Speech 230.

330. Interview and Conference. Spring. (4 q. hrs.)

The selection, organization, and oral presentation of ideas and supporting materials in interview, conference, and inter-personal situations.

Prerequisite: Speech 131.

340. Teaching Speech. Spring. (4 q. hrs.)

A study of essential considerations in speech education; problems, methods and materials in teaching basic skills; teaching and directing co-curricular activities.

Prerequisite: Twenty quarter hours in speech. Admission to teacher education.

352. Radio Production. Winter. (4 q. hrs.)

A study of the equipment and techniques involved in producing radio programs. Problems in announcing, scripting, writing, and producing radio programs. Students direct and edit radio exercises.

COURSES OPEN TO JUNIORS, SENIORS, AND GRADUATE STUDENTS

452. Advanced Theory of Mass Communications. (Omitted 1966-67.) (4 q. hrs.)

A survey of legal precedents which constitute 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 dealing with all mass communication.

453. General Semantics. Winter. (4 q. hrs.)

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. (Omitted 1966-67.) (4 q. hrs.)

A study of the nature, origin, and purposes of speech; basic psychological principles; the communicative process; individual and group communication; personality and speech.

480. Contemporary American Public Address. (Omitted 1966-67). (4 q. hrs.)

A study of competing points of view on a series of critical issues of the twentieth century.

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.)

532 (471). Background of Rhetoric. Fall. (4 q. hrs.)

A survey of Classical, Medieval, and Renaissance Theories of Rhetoric including the works, of Plato, Aristotle, Cicero, Quintilian, Augustine, Ramus, Sherry, Wilson, Cox, and others.

540 (472). American Public Address. Winter. (4 q. hrs.)

A study of the influnce of public speakers on the creation of American ideals and policies.

555. Research in Speech. Fall. (4 q. hrs.)

An introduction to research methods, bibliographical resources, and professional writing in the field of speech.

560. Deliberation of Human Problems. (Omitted 1966-67.) (4 q. hrs.)

Investigation, discussion, and debate as modes of procedure in human affairs. Principles and procedures applied to actual problems. Includes an evaluation of current practices dealing with contemporary problems.

562. Modern Rhetorical Theory. Winter. (4 q. hrs.)

A survey of theories of rhetoric from the eighteenth century to the present. Attention is given to the works of Ward, Blair, Campbell, Whatley, Adams, Austin, Curry, Burke, Flesch, Hall, Hefferline, Schramm, Weiner, Richards, Winans, Woolbert, Brigance, and others.

572. British Public Address. (Omitted 1966-67.) (4 q. hrs.)

A study of twelve selected British public speakers with emphasis upon their abilities to utilize the canons of rhetoric to influence given audiences on given occasions.

595. Thesis. (4 q. hrs.)

SPEECH CORRECTION

Professor: Thurman
Assistant Professor: Flugrath
Instructors: L. E. Miner, J. H. Robertson

UNDERGRADUATE COURSES

254. Structural and Functional Bases of Speech. Fall. (4 q. hrs.)

Organization and functioning of the speech and hearing mechanisms and the fundamental acoustics of voice pitch, quality, loudness, and the speech sounds.

260. Speech Pathology. Winter and Summer. (4 q. hrs.)

A survey of the pathology and etiology of articulatory, voice, hearing, stuttering, and organically based speech disorders; a brief description of the treatment of these disorders.

262. Childhood Development of Speech. Spring. (4 q. hrs.)

Growth and development of speech in children from birth to about seven years of age; special emphasis upon the developmental stages and factors influencing the acquisition of speech.

263 (451). Evaluation and Therapy. Spring. (4 q. hrs.)

Training in specific diagnostic techniques for speech disorders; planning and carrying out specific therapy techniques. Students observe therapy.

Prerequisite: Speech 260.

COURSES OPEN TO JUNIORS, SENIORS, AND GRADUATE STUDENTS

452. Voice and Articulation Disorders. Fall and Summer 1966. (4 q. hrs.)

Nature, causes and treatment of voice and articulation disorders.

Prerequisite: Speech 260, 263.

453. Stuttering. Winter and Summer 1967. (4 q. hrs.)

Prominent theories of causes of stuttering are surveyed. Corrective techniques are studied and evaluated.

Prerequisite: Speech 260, 263.

455. Audiometry and Hearing Aids. Fall and Summer 1967. (4 q. hrs.)

Pure tone and speech audiometry; techniques for hearing aid selection. Students conduct hearing surveys and do individual hearing tests.

Prerequisite: Speech 260, 263.

456. Audiology. Winter. (4 q. hrs.)

Speech and psychological problems of the deaf and hard of hearing; techniques in lip reading and speech rehabilitation.

Prerequisite: Speech 260, 263, 455.

457. Advanced Clinical Practice. Every quarter. (1-4 q. hrs.)

Experience in organizing and conducting speech and hearing surveys; supervised work with a variety of speech and hearing defects.

A student may receive credit for one to four hours during any quarter provided he spends in clinic work thirty clock hours per quarter hour's credit.

Prerequisite: Speech 260, 263.

458. Organic Disorders of Speech. Spring. (4 q. hrs.)

Etiology and therapy for organic disorders of speech: cleft palate, cerebral palsy, aphasia, and laryngectomy.

Prerequisite: Speech 260, 263, 452.

459. Speech Correction Practice in the School Situation. Every quarter. (4 q. hrs.)

Speech correction in a school situation; in the campus elementary school or in nearby public schools. Weekly conference with local supervisor and college supervisor required.

Prerequisite: Speech 260, 263, 452, 453, 455, 456, 458.

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. Fall. (4 q. hrs.)

To orient the new graduate student to the nature, purposes, and methods of advanced study with emphasis on understanding of individual research and study.

Prerequisite: Permission of instructor.

562. Articulation Disorders. Fall. (4 q. hrs.)

Advanced study of causes and treatment of articulation disorders. Testing, sympatology and therapy are stressed.

Prerequisite: Speech Correction 452.

563. Stuttering. Fall. (4 q. hrs.)

Advanced study of the problem; integration of prominent theories and therapies in stuttering; analysis of significant findings and trends in research on stuttering.

Prerequisite: Speech Correction 453.

564. Voice Disorders. Winter. (4 q. hrs.)

Advanced study of etiology and therapy for functional and organic voice problems. Voice pitch, quality, intensity, and speech for the laryngectomee.

Prerequisite: Speech Correction 452.

565. Audiometry. Fall. (4 q. hrs.)

Students develop advanced proficiency in the assessment of hearing losses. Emphasis is placed on a functional test battery, analysis of diagnostic problems and procedures, hearing aid selection and fitting.

Prerequisite: Speech Correction 455.

566. Aural Rehabilitation. Spring. (4 q. hrs.)

Advanced study of rehabilitation for the hard-of-hearing.

Prerequisite: Speech Correction 456, 565.

567. Advanced Clinical Practice. Every quarter. (1-4 q. hrs.)

Supervised corrective work with clients with speech and/or hearing defects. Special efforts are made to provide each student with the kinds of clinical therapy experiences he has not met previously.

Prerequisite: Speech Correction 457.

568. Organic Speech Disorders. Winter. (4 q. hrs.)

Advanced study of cleft palate and cerebral palsy in children and adults; etiology, diagnosis, and therapy.

Prerequisite: Speech Correction 458 or consent of the instructor.

569. Speech Correction Problems in the Schools. Spring. (4 q. hrs.)

Problems in speech therapy with school age children. Special emphasis is placed upon an understanding of the function of the speech correctionist employed in the public school.

Prerequisite: Speech Correction 260, Education 441, 442, 443, or consent of the instructor.

570. Research Procedures in Speech Science. Winter. (4 q. hrs.)

Some major instruments and procedures in experimental phonetics, voice research, and other research areas in speech pathology.

Prerequisite: Speech Correction 561.

572. Language Disturbances. Spring. (4 q. hrs.)

Language patterns of children and adults with oral communication impairments. Special emphasis is placed on the diagnostic and therapeutic procedures.

Prerequisite: Speech Correction 260, 262, 458, Psychology 452, or consent of the instructor.

575. Special Problems. Every quarter. (1-4 q. hrs.)

Independent, directed study of a specific problem or problems in speech pathology, audiology, speech or hearing therapy.

Prerequisite: Permission of the instructor and the department head.

595. Thesis. Every quarter. (4 q. hrs.)

THEATRE ARTS

Professor: Gabbard (Head)
Assistant Professor: Bielenberg, Schneider
Instructor: A. E. Smith

UNDERGRADUATE COURSES

132. Voice and Phonetics. Every quarter. (4 q. hrs.)

A study of voice production and the articulation of sounds; the phonetic alphabet; ear training, and practice in phonetic transcription.

133. Beginning Oral Interpretation. Every quarter. (4 q. hrs.)

Designed to increase vocal skills through reading poetry and prose aloud. Emphasis on heightening enjoyment of literature and preparing the student for advanced work.

Prerequisite: Theatre Arts 132.

240. Introduction to the Theatre. Spring. (4 q. hrs.)

A general introduction to theatrical and dramatic art. Emphasis is on providing the student with the tools of analysis which will give him insight into the total imaginative process that makes up the art of the theatre.

244. Acting. Spring. (4 q. hrs.)

A study of the methods of learning and teaching techniques for the actor, including definite exercises and a practical approach to the art of acting.

257. Technical Direction. Fall. (4 q. hrs.)

Consideration of the elements of technical theatre direction; construction and painting of scenery and properties; theory and technique of stage lighting; stage management.

281. Summer Theatre. Summer. (8-12 q. hrs.)

These courses are designed to give practical, comprehensive experience in theatre arts. Credit for 8 or 12 quarter hours may be earned in one summer.

333. Advanced Oral Interpretation. Winter. (4 q. hrs.)

Study and practice of the techniques of oral interpretation for public performances. Emphasis on analysis of materials, program building and criticism.

Prerequisite: Theatre Arts 133 or permission of the instructor.

357. Scene Design. Winter. (4 q. hrs.)

Step by step consideration of the design sequence from analysis of the script to the completion of production drawings; weekly design projects; familiarization with the forms and styles of scenery; practical experience.

Prerequisite: Theatre Arts 257, or permission of the instructor.

358. Design and History of Costume. Spring. (4 q. hrs.)

History of Costume from the early Egyptians to the present day. Costume design for theatrical productions.

431. Children's Dramatics. Winter. (4 q. hrs.)

Dramatics as educational devices for children. The advantages of dramatizing literature, history, and other subjects. Choice of plays is presented.

445. Directing. Winter. (4 q. hrs.)

The study and actual production of the play. Central emphasis is placed on directing.

COURSES OPEN TO JUNIORS, SENIORS, AND GRADUATE STUDENTS

473. Theatre History. Fall. (4 q. hrs.)

History of theatre from its early beginnings to the present day. Theatre as ritual and as an influence in civilization.

481. Summer Theatre. Summer. (8-12 q. hrs.)

These courses are designed to give practical, comprehensive experience in dramatic art. Credit for 8 or 12 quarter hours may be

earned in one summer. Eight hours may be applied to a master's degree.

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.)

563. History of Dramatic Art. Fall. (4 q. hrs.)

Consideration of the staging of plays from the Greek theatre to the present, with emphasis on adaptation of techniques to school play production. Projects in planning productions under various conditions.

595. Thesis. (4 q. hrs.)

ZOOLOGY

Professors: Durham, Ferguson, V. B. Kniskern, Peterka, Rawls, Riegel (Head), Scruggs
Associate Professor: Goodrich
Assistant Professors: Fraembs, Funk, Jenni, W. J. Keppler, E. B. Krehbiel, Lackey, Mitri, Whitley
Instructors: Hedges, E. M. Kniskern, W. E. McCaul

UNDERGRADUATE COURSES

Zoology 120, 121, and 122 are planned as a general cultural course. They satisfy the general education requirement of a year of laboratory science.

110. Basic General Zoology. Fall. (4 q. hrs.)

Fundamental animal structures; modern information on protoplasm, cells, tissues, organs and systems; physiological processes; simple Mendelian inheritance.

Open only to majors and minors in zoology.

111. Invertebrate Zoology. Winter. (4 q. hrs.)

This course deals comprehensively with the structure, adaptations, ecology, geographic distribution, phylogeny, and economic importance of the members of the invertebrate phyla of animals.

Prerequisite: Zoology 110 or equivalent. Open only to majors and minors in zoology.

120. General Zoology. Every quarter. (4 q. hrs.)

A consideration of fundamental biological structures and principles based upon animal material. Structure and physiology of cells, tissues, and organs.

121. General Zoology. Every quarter. (4 q. hrs.)

Types of animal reproduction, genetics, eugenics, and fundamentals of embryology.

Prerequisite: Zoology 120 or equivalent.

122. General Zoology. Every quarter. (4 q. hrs.)

The structure and natural history of animals of the various divisions of the animal kingdom. Their ecology, geographic distribution, economic importance and evolution are considered.

Prerequisite: Zoology 120, 121.

212. Vertebrate Zoology. Spring. (4 q. hrs.)

A study of the natural history of vertebrates with emphasis on Midwestern forms, including distribution, feeding habits, reproduction, economic importance, and classification.

Prerequisite: Zoology 110 or the equivalent.

214. Comparative Anatomy of Vertebrates. Fall. (4 q. hrs.)

A study of structures and their evolutionary relationships in vertebrates. Based on laboratory work with typical forms.

Prerequisite: Zoology 110, 111 or equivalents.

215. Embryology. Winter. (4 q. hrs.)

The development of vertebrate animals, including formation of germ cells, maturation, fertilization, growth, cellular differentiation, and heredity. Laboratory studies of the frog, chick and pig. Lectures include human embryology.

Prerequisite: One year of zoology.

225. Anatomy. Every quarter. (4 q. hrs.)

A study of osteology from human bones, followed by dissection of the cat. Primary emphasis on muscles with the specific object of understanding general body movement.

Prerequisite: None; however, Zoology 120 and 121 and sophomore standing are desirable.

327 (227). Parasitology. Fall and Summer. (4 q. hrs.)

The study of animal parasites, means of identification, life histories, and methods of control of the more common parasites, including those of man.

Prerequisite: Zoology 120, 121, 122 or equivalents.

336. Genetics. (4 q. hrs.)

A study of the basic laws of heredity and variation; laboratory experiments demonstrating the mechanisms of heredity; cytogenetics and the modern concept of gene action.

Prerequisite: Junior standing or 20 q. hrs. of zoology.

338. Elementary Entomology. Fall, Summer. (4 q. hrs.)

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.

340. Methods of Teaching Biological Science in the High School. Every quarter. (4 q. hrs.)

The collection and use of materials for demonstration and laboratory experiments are stressed.

Prerequisite: Admission to teacher education and junior standing.

341. Problems in Zoology. Any quarter. (4 q. hrs.)

Designed to meet the needs of individual students who wish to do advanced work in some field of zoology.

Prerequisite: Five quarters of zoology and the permission of the department head.

343, 344, 345. Entomology. 343, Fall and Summer; 344, Winter; 345, Spring. (4 q. hrs. for each course.)

A study of insects. Deals with the morphology, classification, ecology and economic importance of this large class. Methods of collection and preparation of specimens are included.

Prerequisite: Zoology 110, 111, 212 or equivalent.

346 (226). Economic Entomology. (Omitted 1966-67.) (4 q. hrs.)

A basic study of the structure, life histories and methods of control, followed by specific studies of the common insect pests found in Illinois.

Prerequisite: Zoology 343 or equivalent.

347. Fisheries Biology. Fall. (4 q. hrs.)

The fundamentals of the study of the anatomy, classification, life histories and conservation of fish. Field work and study of local fish are stressed.

Prerequisite: Zoology 110, 111, 212 or equivalent.

XI. Statistics and Graduates

SUMMARY OF ATTENDANCE

Twelve Months Ending May 26, 1966

SCHOOL YEAR—June 7, 1965, to May 26, 1966

UNIVERSITY

Full-Time, On Campus:		Summer*	Fall	Winter	Spring
Seniors:	Men	259	479	502	513
	Women	203	307	304	329
	Total	462	786	806	842
Juniors:	Men	160	532	529	517
	Women	192	384	364	398
	Total	352	916	893	915
Sophomores:	Men	138	743	717	699
	Women	191	624	565	543
	Total	329	1367	1282	1242
Freshmen:	Men	257	937	800	626
	Women	244	919	853	688
	Total	501	1856	1653	1314
Unclassified:	Men	18	9	3	—
	Women	10	7	2	—
	Total	28	16	5	—
Graduates:	Men	330	64	75	76
	Women	129	27	29	28
	Total	459	91	104	104
Total:	Men	1162	2764	2626	2436
	Women	969	2268	2117	1988
	Total	2131	5032	4743	4424
Part-Time, On Campus:					
Undergraduates:	Men	189	54	49	45
	Women	187	80	80	83
	Total	376	134	129	128
Graduates:	Men	29	109	90	143
	Women	27	60	43	79
	Total	56	169	133	222

*Includes eight and ten weeks enrollments

		Summer*	Fall	Winter	Spring
Workshops:	Men	0	—	—	—
	Women	57	—	—	—
	Total	57	—	—	—
Total:	Men	218	163	139	188
	Women	271	140	123	162
	Total	489	303	262	350
Total, On Campus					
	Men	1380	2927	2765	2624
	Women	1240	2408	2240	2150
	Total	2620	5335	5005	4774
Full-Time Equivalent (Resident)		2408	5158	4861	4566
Part-Time, Off Campus					
	Men	0	77	—	34
	Women	0	157	—	92
	Total	0	234	—	126
Total University					
	Men	1380	3004	2765	2658
	Women	1240	2565	2240	2242
	Total	2620	5569	5005	4900
Full-Time Equivalent		2408	5231	4861	4608
LABORATORY SCHOOL					
	Boys	102	260	264	253
	Girls	109	262	254	268
	Total	211	522	518	521

Degree Graduates

MASTER OF SCIENCE IN EDUCATION

*Graduated at the end of Fall Quarter
§Graduated at the end of Winter Quarter

MAY, 1965

§Adams, Thomas O. — Oak Lawn
Andrews, James R. — Charleston

Boland, Beverly Joyce — Oakland

Disque, William R. — Mattoon
Douglas, Dwight Oliver — Mt. Carmel

Freeman, Leslie A. — Charleston
French, James Edward — McHenry
Fritchley, Ronald Drexel — Charleston

Gordon, Dorotha Townsend — Charleston
Gudauskas, Gerome Max — Georgetown

Hagebush, Virginia Swickard — Newman
*Hannah, David Morgan — Mattoon
Hays, Irma Mae Winkleblack — Charleston

Jeffers, Earl Wayne — Charleston
Jones, Jr., Walter Raymond — Olney

Karr, Charles Henry — Decatur
Kendrick, Gloria D. — Chicago

Maynard, Yvonne Baker — Windsor
McCabe, Eleanor Fisk — Charleston
Mitchell, Tymon Frederick — Charleston
§Moore, Sandra Kay — Broadlands

Page, Terry Allen — Patoka

Read, Ronald E. — Olney
Rogers, Gary C. — Danville
Rohr, Theodore Vincent — Charleston

Shah, Mrudula Chimanlal — Ahmdarad, India
Smith, Dorothy Marie — Mattoon

Tankersley, John Haldon — Gibson City
Tooley, Nadine Rennels — Charleston

Men: 18 Women: 11 Total: 29

MASTER OF ARTS

MAY, 1965

Sparger, Avealoie Dennis — Harvey
Voorhees, Larry Donald — Hume

Men: 2 Women: 0 Total: 2

BACHELOR OF SCIENCE IN EDUCATION

MAY, 1965

Abegglen, Thomas Edward — Olney
*Allen, Donald Robert — Villa Grove
Ameter, Sue Lynn — Bridgeport
*Anderson, David Gary — Shelbyville
§Anderson, Rhonda Carol — Blue Island
Andrews, Rebecca Jane — Glenview
*Archey, Gary Gloyd — Maroa
*Archey, Sandra Strohl — Bement
Aten, Rebecca — Robinson

Bails, John Melvin — Charleston
§Baird, Sally Barbara — Edwardsville
Barker, Barry Wilson — Champaign
Barker, Nikki Lea — Willow Hill
§Barnes, Annette — Chicago
Bateman, Sandra Ellen — Decatur
§Baugh, Karol Raymond — Monee
Baxter, Ginny L. — Rushville
Beccue, Nadine Helen — Effingham
Beck, John William — Mattoon
*Beck, Martha Gertrude — Tuscola
Belusko, Frances E. — Litchfield
Berkowitz, Sheldon M. — Brooklyn, New York
Berroyer, Carole Jean — Pana
*Billings, Colleen Marie — St. Anne
*Bishop, Judith Ann — Litchfield
Blixen, Kathleen Noel — Edwardsville
§Blovad, Sanford Paul — Brooklyn, New York
Booher, Homer Leland — Armstrong
§Borglund, Jr., William Raymond — Northlake
*Boyer, Kay Wigginton — Oakland
Braundmeier, Jr., Arthur John — New Douglas
Brown, Judy Kay — Rantoul
Brown, Robert Rodell — Stewardson
Bruch, Patricia Jean — Granville
Brunst, Lois Anne — Park Forest
Brusa, Frank J. — Elmwood Park
Brush, William J. — Jacob
§Buffington, Bonnie Ann — Clay City
Bundy, Dwaine Stanley — Centralia
§Buscher, Robert Eugene — Litchfield
§Butler, Toni Lee Gilbert — Arcola
Bydalek, David A. — Kankakee

§Campbell, Diana Lynn ..... Quincy
Carley, Carol Ann ..... Watseka
*Carman, Joyce Aleta Mineo ..... Mattoon
Carroll, Linda Sue ..... Bethany
Carrow, Thomas George ..... Robinson
Carter, Rosalie Ann Fasse ..... Minier
§Casserly, Michael William ..... Champaign
Cavolt, Janet Kay ..... Martinsville
Chase, Karltyce Sharri ..... Chicago
Chase, Peggy Ann ..... Danville
Churchill, Julia Etta ..... Petersburg
*Claflin, Debora ..... Park Ridge
Claggett, Betty Lou ..... Waukegan
Clouse, Curtis Elmer ..... Hoopeston
*Cochran, Thomas Lloyd ..... Sullivan
Collins, Nancy Hudson ..... Chrisman
§Cook, Peter Whisman ..... Detroit, Michigan
*Corlew, Mary Georgia ..... Edwardsville
Cornwell, Hilda Faye ..... West Union
Cottingham, Robert Merle ..... Charleston
Cramer, Mary Jo ..... Rantoul
Crum, Doris Ann ..... Mattoon
*Cundiff, Ralph Delbert ..... Denver, Colorado

*Dalpiaz, Gary L. ..... Nokomis
Dappert, John Elmer ..... Newton
Daughhetee, Stephen Alden ..... Charleston
Davis, Glenn William ..... Springfield
Davis, Margaret Ellen ..... Matteson
Davis, Thomas Clark ..... Lawrenceville
§Day, Jill Kathleen ..... Decatur
Deibert, Sandy Ray ..... Mt. Pulaski
Deltuva, Gail Frances ..... Westville
DeMuth, Blaise ..... Mt. Pulaski
Dennis, Jeraldine Hoffman ..... Deerfield
Deyoe, Karen ..... Charleston
*Dillard, Roy Joseph ..... Mt. Carmel
Donaldson, Franklin Delaine ..... Effingham
*Dowling, Cora Ann Goley ..... Dupo
*Dream, Julia Ann ..... Richton Park
§Drone, Charlotte Jeannine ..... Ridgway
Duke, Sandra Sue ..... Fairfield
Duvall, Dana Lee ..... Casey

Earnest, Donna Sheryl ..... Newton
Eberhart, Mary Lou ..... Watseka
Edwards, Mary Jewell Wax ..... Newman
*Eells, Jeanette Margaret Kruse ..... Charleston
Elder, James Howard ..... Mattoon
Elkins, Judith Ann ..... Olney
Everett, Richard Thomas ..... Albion

*Fancher, Stephen Paul ..... Casey
*Fearheiley, Joseph Michael ..... Fillmore
Fearington, Connie Carol ..... Montrose
Federman, Mary Carol ..... Moweaqua
Ferguson, Larry Edward ..... Oblong
Ferrari, Sharon Kay ..... Litchfield
*Fever, Leo William ..... El Paso
§Fines, Gerald D. ..... Morrisonville
Fischer, Stephen Corrie ..... Mt. Carmel
Fisher, William Clinton ..... Lawrenceville

Florin, Diann Louise ..... Waterloo
§Flynn, John Thomas ..... New Lenox
*Flynn, Karen Rita ..... Taylorville
Foster, Janet Marian ..... Palatine
*Foster, Peggy Diane ..... Casey
French, Sandra Kay ..... Mattoon
*Furlong, Joseph Patrick ..... Skokie

Gaddey, Robert Lyle ..... Decatur
*Gage, Mary Martha ..... Hillsboro
Gainer, Glenna Kay ..... Bridgeport
*Garbe, James Robert ..... Mattoon
*Gard, Carole Ann ..... Charleston
Gavin, Mary Elizabeth ..... Granite City
Gendusa, Camille ..... Chicago
Gentry, Geneva June ..... Flora
Gentry, Max Leroy ..... Toledo
§Gielow, Martha Ann ..... Mattoon
Gieseking, Allan Ray ..... Harvel
*Gilham, Linda Lea ..... Hanna City
§Gill, Larry M. ..... Mt. Carmel
Gill, Louanna Rajean ..... Flora
Glassford, Sandra K. ..... Danville
Goff, Genevieve L. ..... Urbana
§Goodson, Stephen Eugene ..... Mattoon
Gotsch, Sandra Lea ..... Litchfield
§Graham, Jr., Ronald Edgerton ..... Carmi
Grimes, Mary Darlene ..... Oakwood
*Grotfeldt, Barbara Hill ..... Champaign
Guiliani, Sandra Sue ..... Lawrenceville
Guthrie, Gary Lee ..... Sidell

Haerr, Renee Lorraine ..... Oak Lawn
Hale, Sally Jo ..... Paris
*Haley, Richard I. ..... Champaign
§Hall, Thomas Lynn ..... Cisco
Hand, Charles Allen ..... Paris
§Handley, Mark Daniel ..... Mattoon
Hanner, Shirley Jane ..... Oakland
§Hardie, Bobette Virginia ..... Hinsdale
Harling, Gayle Yvonne ..... Mokena
Hartsock, Ronald Leo ..... Clinton
§Hash, Ronnie Lee ..... Sullivan
Haslett, Clarence Leonard ..... Charleston
Hayes, Evelyn Marie ..... Sumner
*Heath, Jerry Ray ..... Sumner
Heindselman, Paula Kay ..... Olney
Hellinga, Roger Walter ..... Chicago
§Heltsley, Margaret Anne ..... Kansas
*Hemann, Betty Ann Essenpreis ..... Pocahontas
*Hendricks, Judith MacMurdo ..... Virden
*Higgs, Jack Alan ..... Oakland
Hilger, Virginia Ellen ..... Oak Lawn
*Hoem, John Errol ..... Westchester
Holley, Donna J. ..... Kansas
Holliday, Nancy Helen ..... Litchfield
§Holstlaw, Vera Jane ..... Olney
§Horn, Eula P. ..... Mattoon
Horsman, Silver Bumgardner ..... Sullivan
Hunt, Martha Jane ..... Mattoon
§Hutchison, Georgia Esther ..... Danville

Ingram, Mary Kay ..... Redmon
Irby, Gary Richard ..... Mattoon
Jaeger, William Max ..... Yale
James, Steven Joe ..... Mattoon
Janda, James Stuart ..... LaGrange
*Johnson, Stephen Edward ..... Mattoon
Jones, Nancy Kay ..... Villa Grove
Jordan, Janet Ann ..... Collinsville
§Journey, Vera Pauline Maudlin ..... Georgetown

Kapper, Kathryn Sue ..... Bogota
Keener, Danny Brian ..... Charleston
Keller, Judith Ann ..... Newton
Kelley, Carolyn Sue ..... Moorestown, New Jersey
Kelley, Thomas Louis ..... Chicago
Kincaid, James Paul ..... Palestine
Klitzing, David F. ..... Altamont
Kloker, Lois M. Davison ..... Kansas
Kopp, Arlene S. ..... Charleston
*Kuehnle, Karen O. ..... Chicago

Lacy, Karen Y. ..... Arthur
Lake, Susan Kay ..... Martinsville
Lance, Mary Elaine ..... Hindsboro
*Lawson, Joyce Ann ..... Champaign
*LeDuc, Richard James ..... Tower Hill
LeDuc, Sharon Orndoff ..... Paris
Legg, Daun Alan ..... Robinson
Leming, Charles William ..... Mattoon
Lester, Barbara Jean ..... Lombard
§Lewis, Lynn C. ..... Sidney
Lilly, Nancy Carol ..... Deterich
Lindsay, Sara Ellen ..... Decatur
Littell, Claudia Joan ..... Watseka
Lobb, Larry David ..... Clinton
*Loeffler, Avalon Lois ..... Fithian
Long, Susan Kathleen ..... Hinsdale
Lorenz, Janet S. ..... Chicago
*Love, Donald Robert ..... East Chicago, Indiana
Lowry, George Bentley ..... Charleston
*Lowry, Regina A. Rezabek ..... Edwardsville
§Luse, John Edward ..... Mattoon
*Luster, Janet Lee ..... Decatur
Luthe, George H. ..... Albion
Lynch, Francis Eugene ..... Monticello
*Lynch, James William ..... Chicago

MacBrayne, Nancy Anne ..... Northbrook
§Marchant, Judith Kay ..... Paris
§Marlow, Ann Honn ..... Oakland
*Martin, Juanita Berneice ..... Yale
Marxman, Merrill Dean ..... Effingham
Mathon, Ronald Dale ..... Taylorville
McAllister, Glorya Jean ..... Chicago
McCarty, Ruth Janet ..... Effingham
McCorkle, John C. ..... Charleston
McFadden, Ruby Ann ..... Mattoon
*McFarling, Stephen R. ..... Greenup
McGee, Judith Ann ..... Ogden
§McGough, Mary Frances ..... Danville
*McKee, Mary Melinda ..... Charleston
*McKenzie, Frederick Bruce ..... Effingham

§McNutt, Sabina Lynne ..... Charleston
§Menke, Anthony Paul ..... Newton
Mette, Joan Cecelia ..... Trimble
Mikos, Thomas M. ..... Chicago
*Milam, Paul Kent ..... Mattoon
Miller, Glenna ..... Decatur
Moore, Alayne Joan ..... Toledo
*Morgan, Marianne ..... Trilla
*Morris, Rufus G. ..... Mattoon
Morrison, Karen Jane ..... Sigel
*Mory, Michael Lee ..... Charleston
§Moses, Susan Marie ..... Shelbyville
Motley, James Duane ..... Kansas
Murbarger, Phyllis Ann ..... Clay City
*Myers, Mary Elizabeth ..... Windsor
Myers, Jr., Raymond D. ..... Centralia

Norton, Kathryn Sue ..... Kankakee
§Nuxoll, Marilyn Kaye ..... Mattoon

Oliver, Beatrice Louise ..... Chicago

Painter, Lynne B. ..... Anchor
*Palishen, Harold C. ..... Northlake
Palusko, Marjorie Pope ..... Charleston
Paris, V. Michael ..... Kankakee
§Parriott, Sherry Fry ..... Lawrenceville
Parsons, Jean Ellen D. ..... Mattoon
§Peglow, Charles Walter ..... Lansing
*Peifer, Belva Chestine ..... Stewardson
Perry, Sandra Kay ..... Paxton
Peterson, Donald Arthur ..... Oak Lawn
§Petty, Laudy Evelyn ..... Oakland
*Phillips, Sondra Kay Gaskin ..... Clay City
Phipps, Constance Rae ..... Chrisman
Pichon, Fabein Martin ..... Danville
*Pichon, Jennifer Ann ..... Danville
§Pierceall, Sandra Lee ..... Springfield
Piper, Renee Lynne ..... West Liberty
Pomatto, Thomas W. ..... Braidwood
Portee, Richard Marshall ..... Decatur
§Powell, Linda Rae ..... Charleston
*Price, Gary Edgar ..... Shelbyville

Reiss, Norma Jean ..... Altamont
Rhodes, Dorothea Dhom ..... Newton
*Richter, Linda Darlene ..... Oakwood
§Riggs, Jacquelyn Kay ..... Highland
Riley, Philip A. ..... Effingham
Ringering, Dennis Lee ..... Edwardsville
Rittmeyer, Marcia Eileen ..... Pecatonica
*Robinson, Allen Roland ..... Springfield
Robinson, Donna Roberta ..... Decatur
*Robinson, Kenneth R. ..... Albion
Rodack, Barbara J. ..... Libertyville
Rodgers, Carolyn Ann ..... Lerna
Romager, Nancy Gail ..... Pana
Roscetti, Patricia Ann ..... Riverton
*Roth, Sharon Lynn Bateman ..... Olney
§Roth, Stephen James ..... Olney
§Rudolphi, Shirley Sue ..... Olney
§Rush, Loretta Jean ..... Springfield
*Russell, Herbert Keith ..... Stewardson

§Salyers, Rita Irene — Newton
Scarlett, Wayne Carlisle — Ridgefarm
Schmitz, Karen L. — Fairfield
Scott, Bernard A. — Taylorville
Scroggin, Terrance Shane — Mt. Pulaski
Selby, Marilyn Elaine — Newton
*Selivonchick, Molly Jo — Harvey
Semon, Margo Elaine — Zion
Seng, Lois Ellen — Windsor
Senkbile, Sandra Ann — Downers Grove
Shanks, Marvalene Ann — Danville
*Shepherd, Preston Doyne — Hoopeston
Shoup, Carol Ann — Lincoln
§Siefferman, Earl Eugene — Springfield
§Simpson, Patricia Margaret Breen — Tuscola
Sivert, Suzanne — Lawrenceville
Skinner, Kathleen Rae — Albion
Slater, Elizabeth Fay — Windsor
Sloan, Shirley Darlene — New Boston
Smith, Caroline Elizabeth Kuipers — Sullivan
Smith, James Arthur — Sullivan
*Smith, Janice Louise — Lawrenceville
Smith, Robert Wayne — Olney
Smith, Trena Kay — Danville
Snyder, Phyllis Lane — Broadlands
Spain, Linda Carolyn — St. Elmo
Spencer, Sharon Kay — Vandalia
Spillman, Patricia Adell — Sumner
Spraggins, Ronald F. — Yale
Steffen, Ronald Eugene — El Paso
§Sternaman, Kathleen Sue — Springfield
Stewart, Phillip George — Mattoon
Stilgebauer, Larry Keith — Mattoon
Stilgebauer, Marcia McKown — Charleston
Stingley, Wayne Edward — Chicago
Stites, Marijon Anna Goekler — Marshall
Stocker, Larry J. — Pana
Strader, Sharon Sue — Charleston
Sturm, Joyce Elaine — Martinton
*Stutzman, Sandra Kay — Monticello
§Swan, Howard Melvin — Mattoon
*Swanson, Rose Anna — Hanna City

Tate, Candace Jane Gruenkemeyer — Mattoon
*Taylor, Billy Miles — Rankin
Taylor, Larry D. — Decatur
Thome, Charles Joseph — Barrington
Thompson, Judith Alayne — Chrisman
Thompson, Judith K. — Casey
Throneburg, Martha Jean — Paris
Titsworth, Elvis Lee — Litchfield
Tolen, Donald Arthur — Oakland
Toler, Elyn Kay — Clay City
*Towler, Gary Ross — Vandalia
§Tracy, Darrell Maurice — Arcola
*Trainor, Robert Eugene — Springfield
Trimble, Robert Ernest — Tuscola
§Turley, Rodger Dale — Springfield
Turner, David Winfred — Monticello
Turner, James Richard — Springfield

Uffelman, Carolyn Rosella — Pawnee
Ulm, Myra Jo — Oblong
Unser, Judith Kaye — Taylorville

*VanHook, Martha Jeanne — Decatur
VanRheeden, Bonnie Kay — Frankfort
Varner, Alan Richard — Monticello
Vitton, Donald Joseph — Bloomington
Vogelsang, Allan Frank — Rantoul
*Voigt, Roger Sears — Sheldon
*Vreuls, Sherry Joy — Chicago
Vrhovnik, Anne Elizabeth — Chicago
§Vyvial, Vernell Gail — Staunton

*Wade, Tim David — Villa Grove
Waldrip, Ann Marie — Greenup
Walker, David L. — Litchfield
Walker, Ronald Lee — Westville
Wall, Nancy Catherine — Windsor
Walters, Mary Helen — Granite City
Washburn, Barbara Karen — Olney
Washburn, Frederick Kenneth — Flossmoor
Weidner, Carol J. — Noble
§Wendt, Elizabeth Mia — Wheaton
Whitcher, Beverly Ellen — Paris
White, Ruth Etta — Charleston
Wilhelm, Judy Marlene — Chicago
Willenborg, Alfred Adolph — Effingham
Wine, Glenda Kay — Iola
§Witmer, II, Ralph C. — Charleston
Wons, Joy Carol — Downers Grove
Woodruff, Judith Ann — Hillsboro
Woodruff, Martha Kay — O'Fallon
Wright, Leatrice Elaine — Robinson
Wunderle, Terrence Michael — Mason City

Young, Linda Lou — Humboldt

Zanders, Marilyn Jo — Springfield
*Zeller, Barbara Schwarz — Benton Harbor, Michigan
*Zotz, Barbara Annette — Danville
Zuber, Judith Ann — Claremont
Zuber, Mary Louise — Litchfield

Men: 147 Women: 231 Total: 378

BACHELOR OF SCIENCE

MAY, 1965

Adamitis, Thomas Wayne — Collinsville
*Adolph, Peter Phillip — Mattoon
§Ashbaugh, Robert Wilson — Kankakee

§Bean, Richard Frank — Lovington
Bowman, Robert R. — Mattoon
§Burris, Darryl Thomas — Georgetown

*Cadwalader, Richard Earl — Chicago
Carlson, Bruce Graham — Park Forest
Cooper, Terry Ray — Casey

Dadam, Jr., John — Oak Lawn
Dunham, David Lee — Charleston

Eagleson, Paul Andrew — Olney
§Edwards, David L. — Charleston
Emperor, Robert Edward — Frankfort

Favreau, David R. — East St. Louis

Garver, Donald Milton — Decatur
§Greene, Charles Ronald — Mattoon

§Haire, William John — Villa Grove
*Hanlon, Raymond Francis — Naperville
§Herman, Mary Louise — Rosiclare
Hindelang, Donna Marie — Carrollton
*Howie, Larry Eugene — Mattoon
Hranka, Jr., William M. — Chicago

Ingram, Robert A. — Charleston

§Jones, Walter Leon — Mattoon

Karp, Lawrence Michael — Park Forest
§Kirk, Richard Lewis — Oblong
Kubes, Kenneth Joseph — Lisle

Lewellen, Gary Joseph — Mattoon
§Lewis, Robert Harold — Lawrenceville
Londrigan, Michael Edward — Springfield
*Ludwig, Robert A. — Sigel

*Martin, William Patric — Champaign
Masters, Thomas Nelson — Arcola
§Mathews, Steven Paul — Bradley
§McDaniel, Curtis R. — McLeansboro
§Metzger, Roger William — Pana
Miller, Clyde Edward — Olney
*Miller, Marvin Dale — Mattoon
*Myler, Jr., Earl O. — Rossville

Nelson, Dennis H. — Park Forest

§Perington, Lamont Lee — Zion
*Plahn, Michael Eric — Chicago
Polson, Clifford C. — Paxton

Robinson, James Everett — Charleston
Romanko, Robert George — Charleston
§Roscich, John Vincent — Oak Lawn
Rutan, Dan Albert — Tuscola

Search, Jr., Charles Oliver — Rantoul
Selivonchick, Daniel Paul — Charleston
Snyder, Thomas A. — Charleston
Stevens, Robert Eugene — Charleston
§Stokely, Charles B. — Granite City
*Strom, Raymond Bruce — Elmhurst

Thorne, Michael Alan — Mattoon

Underwood, Gary Lee — Mattoon

Worthy, John M. — Champaign

§Yeates, Carole Ann — Decatur
Yeates, Karl Alexander — Charleston

Zvonecek, Gerard James — Berwyn

Men: 57 Women: 3 Total: 60

BACHELOR OF SCIENCE IN BUSINESS

MAY, 1965

*Boston, Jr., Donald Stephen — Park Forest
Boyd, James Charles — Champaign
Bush, Harold Jay — Paris

Correll, James Robert — Oblong

Doris, Richard Eugene — Aroma Park

Ekstedt, Donald A. — Arthur

*Hoops, Thomas L. — Decatur
Huffmaster, Donald Alan — Stewardson

Jensen, Jack Eugene — Charleston
§Jessup, Sr., Kevin Scott — Danville

§Kelley, Steven Dwight — Ridgefarm

Lowe, Larry Thomas — Lovington

MacGilvray, George Michael — Kankakee
Masquelette, Roger S. — Waukegan
Murvin, Roger Weber — Olney

Nichols, Lyle Emmet — Charleston
Nottmeier, Kathleen E. — East Carondelet

Petrilli, Orazio Thomas — Charleston

Quandt, Ronald Eugene — Edgewood

Reardon, Leonard Wood — Effingham

*Sharp, Larry Allen — Greenup
§Stimbroski, Joseph M. — Westville

Watkins, Jr., Carl Eugene — Danville
§Wertz, Robert Charles — Antioch

Men: 23 Women: 1 Total: 24

BACHELOR OF ARTS

MAY, 1965

Coleman, Loralee Lucille ..... Charleston

Haladyna, Ronald R. ..... Lyons
Halberg, Lynnea Jane ..... Springfield
*Holmer, Kenneth Joseph ..... Champaign

Men: 2 Women: 2 Total: 4

MASTER OF SCIENCE IN EDUCATION

AUGUST, 1965

Barry, Roger Joseph ..... Raymond
Binnion, Terry C. ..... Tuscola
Black, Ted Ronald ..... Effingham
Blair, Richard Wayne ..... Mazon
Brant, Galen Lindell ..... Bridgeport
Brown, Frankie D. ..... Greenup

David, Charles M. ..... Lawrenceville
Deterding, Don ..... Effingham
Deyoe, John Stephen ..... Urbana
DiCenso, Charles M. ..... Springfield

Edgington, Joel Dee ..... Crown Point, Indiana
Ekman, Carol Gene ..... Waukegan

Fuelle, Jack George ..... Effingham

Gifford, John E. ..... Flat Rock
Glosser, Holly M. ..... Charleston
Goldstein, Anna Louise ..... Sigel
Graham, Robert Leroy ..... Marshall
Gueldner, Gary L. ..... Edwardsville

Hamilton, William Melvin ..... Springfield
Harless, Helen Wolf ..... Shelbyville
Hayes, James Clinton ..... Charleston
Highsmith, Paul D. ..... Oblong
Holley, Janet Finlayson ..... Charleston
Howrey, Gary L. ..... Kemp

Kamm, Adrian J. ..... Atwood
Kendrick, Phillip James ..... Chicago
Kern, Roberta E. ..... Ashmore
Klaus, Beverly Ann ..... Carlinville
Klaus, Margaret Helen ..... Carlinville
Koertge, Douglas J. ..... Olney
Kuhl, Marsha Bridges ..... Bogota
Kukla, Thomas Allen ..... Danville

Luallen, John Curtis ..... Neoga

Martin, Ronald George ..... Milford
Mattix, Dennis Lee ..... Charleston
Metcalf, Winifred Kay ..... Charleston
Mizener, James William ..... Lisle
Moomey, John F. ..... Mechanicsburg
Morgan, Marianne ..... Trilla
Murphy, Phillip R. ..... St. David

Owens, Carl L. ..... Nokomis

Parker, Richard E. ..... Jacksonville
Pedersen, Erik John, Jr. ..... Northlake
Phillips, Aaron W. ..... Sailor Springs
Pscherer, Roger ..... Elmhurst
Potter, Everett Warren ..... Harvard
Price, Blanche Heath ..... Lerna
Pruemer, Judith Catherine ..... Teutopolis

Rigdon, Thomas D. ..... Pana
Rippetoe, Kenton Lee ..... Charleston
Rouse, Virginia Seifert ..... Charleston

Sanders, Phillip Dean ..... Arcola
Shoulders, Richard Eugene ..... Palestine
Smith, Marion Dale ..... Shelbyville
Spencer, Norton Fielden ..... Salem
Stauder, Maurice Francis ..... Danville
Stoltz, Betty Ruth ..... Mt. Carmel
Stoltz, Pauline Caroline ..... Mt. Carmel
Stone, Charles Eugene ..... Assumption
Swick, John M. ..... Mattoon

Voigt, Roger S. ..... Sheldon
Vollrath, Delmar Thurman ..... Monee

Watkins, Virginia Rose ..... Newton
Weith, Alan William ..... Elmhurst
Wiggam, Stanley F. ..... Wilmore, Kentucky
Wilhour, Keith Wilson ..... Cerro Gordo
Wiseman, Nellie G. Tanquary ..... Charleston
Wisner, Bruce Dean ..... Sidell
Wurtsbaugh, Ray Michael ..... Mattoon

Younger, Robert Kelly ..... Effingham

Men: 52 Women: 18 Total: 70

MASTER OF ARTS

AUGUST, 1965

Campbell, William E. ..... Murdock

Voorhees, Judith Kay ..... Paxton

Wunar, Joseph John ..... Niles

Men: 2 Women: 1 Total: 3

BACHELOR OF SCIENCE IN EDUCATION

AUGUST, 1965

Ahrens, Martha Marie — Danville
Albin, Janet R. — Neoga
Allison, Janet Charnetzki — Casey
Anderson, Lois Katherine — Kankakee
Ankenbrand, Susan Syndergaard — Charleston

Baldwin, Everett Leon — Jacksonville
Ballance, William Maurice — Kinmundy
Bavery, William Floyd — Basco
Bealer, Neal Lewis — Sumner
Beason, Patricia Louise — Mattoon
Beckmann, Raymond Martin — Lansing
Behrens, Rebecca Ann — Mt. Morris
Belfield, Janice E. — Rockford
Bell, Betty Catherine — Charleston
Bennett, Carol Nadine — Kansas
Bennett, Robert Donald — Rantoul
Blackful, Leroy, Jr. — East Chicago Heights
Bradfield, Larry Oren — Indianola
Brant, Shirley Ann — Noble
Bullock, Linda Thomas — Sullivan
Burcham, Daniel Lee — LaPlace
Burton, Lester Raymond — Neoga
Burton, Robert William — Bement
Buss, Gaylord Emil — Rose Hill
Byrd, Janet Elaine Klaren — Westmont

Carpenter, Charles Andrew — Charleston
Carrell, Anne E. — Charleston
Christie, John Paul — Pontiac
Cooper, Everett Franklin — Charleston
Courter, Mary Ellen — Paris
Cox, Darrell Eugene — Effingham
Crooks, Eric Ivan — Cisne
Crowder, Vicki Ann — Newton
Cutts, Eloise Elaine — Toledo

Davis, Carolyn Jean Liggett — Fithian
Davis, Linda Lee — Gays
Davis, Ruth Lee — Casey
Dolan, Arletta Kay Walker — Windsor
Dougherty, Martin Charles — Decatur
Dozois, Laurence H. — Oak Park
Dye, Mary Sue — Louisville

Eakle, John Raymond — Sidell
Eaton, William Edward — Decatur
Edwards, Mary Elsie — Windsor
Epley, Leo Edward — Nokomis
Erwin, William Eugene — Springfield
Eyrse, Karen Lynn — Charleston

Farley, Max Allen — Lansing
Fedorchak, Carole Marie — Granite City
Fehrenbacher, Carole Marie — Ingraham
Fenton, Royden Kenneth, Jr. — Chicago
Fitzhenry, Glenna Kay — Rankin

Fordyce, Leroy — Louisville
Fortney, James Frederick — Tuscola
Franklin, Donald Ray — Charleston
Freeman, Anita Gale — Sullivan
Fuller, Carol Ann — Mattoon

Gardner, Janet Lou — Springfield
Geurin, William L. — Peoria
Goff, Ellis E. — Charleston
Gorgal, Allan Henry — La Salle
Gourley, Eldon Davis — Charleston
Greenhalgh, Duane Carl — Charleston
Guertin, Eugene Dennis — Mattoon
Guertin, Mary Faith — Mattoon

Hall, Sonia Lyn — Bement
Hanlon, Carole Lipp — Peoria
Hardimon, Ruth Goodmon — Herrick
Harris, David Lew — Loogootee, Indiana
Hawickhorst, Rose Ann — Teutopolis
Haws, John Ronald — Lovington
Hearn, Helen Pauline — Oakland
Hines, Louise Annette — Alma
Hires, James Patrick — Casey
Hockman, Judy Dale — Oblong
Hoelscher, Rita Ann — Teutopolis
Hoffek, Robert G. — Granite City
Holt, Carole Diane — Xenia
Hoover, James Michael — Springfield
Hortenstine, Annetta May — Gays
Horvath, Maria — Chicago
Houser, Raymond Parker, Jr. — Toledo

Jackson, David R. — Decatur
Jones, Nancy — Mattoon
Juriga, Sharon Ann Hanley — Charleston

Kahle, William Bruce — Elmwood Park
Kaley, Orville Wilson — Charleston
Keefer, Phillip C. — Paris
Kelly, Colin N. — Vandalia
Kight, Larry Dean — Noble
Kimball, James A. — Charleston
King, Janice Anne — Sullivan
Knott, James B. — St. Joseph
Koss, James Russell — Cisne
Krause, Maurice Gene — Beason
Krueger, Frederick August, Jr. — Mason
Kruse, Joan Katherine — Argenta
Kwil, Daniel Frank — Braidwood

Lake, Drallie J. — Effingham
Lavell, Karen Cichon — Charleston
Liebenow, J. Stephen — Sheldon
Longfellow, Earl III — Charleston

Mandel, Patricia Louise — Deerfield
Martin, Beulah Abigail — Sumner
Mateer, Carole Sue — Virden
Maxedon, Barbara Ann — Clay City
McCoy, Jean Lee — Paris
McGraw, Edward Francis II — Kankakee
Metzger, Jerome Charles — Decatur

Mikrut, Nancy Mae ..... Lansing
Moore, Ethel Taylor ..... Dalton City
Morris, James Howard ..... Champaign
Morrison, Steven R. ..... Windsor
Musgrave, Mary Jane Anderson ..... Salem
Musgrave, Timothy Lavern ..... Willow Hill

Neal, Martha L. ..... Mattoon
Neece, Donald Eugene ..... East Alton
Nixon, Barry Leon ..... Mansfield
Noftke, Gary Lee ..... Sullivan
Nolan, Elizabeth Lynn ..... Ivesdale

Paddick, Kenneth Lynn ..... Sumner
Peck, Jo Anne ..... Paris
Pickens, Joan Lorene ..... Dieterich
Prather, Carol Ann ..... Waverly
Pulsford, Judith Ann ..... Effingham

Reis, Annette Jeanne ..... Ste. Marie
Reynolds, William Lonnie ..... Windsor
Rice, Harry James ..... Lawrenceville
Robnett, Lura Williams ..... Kinmundy
Roseboom, Alberta Rose ..... Collinsville
Ryan, Susanne Jill ..... Oak Park

Salinas, Roger ..... Calumet City
Samelman, Mary Ellen ..... Caseyville
Schrader, Jo Jayne ..... Bridgeport
Schroeck, Dale Arlene ..... Chicago
Shafer, Phyllis Jean ..... Charleston
Shelton, Barbara Jean ..... Bethany
Shelton, Beverly Jane ..... Shelton
Sij, John William, Jr. ..... Collinsville
Slater, Don Wayland ..... Cisne
Smith, Milton Phillips II ..... Flora
Smith, Ronald Deroy ..... Collinsville
Steigelman, George William ..... Charleston
Stingley, Andrea Louise ..... Chicago
Stockman, Betty Arlene ..... Charleston
Stuckey, Mary Ann ..... Springfield
Sullivan, Jeffrey Paul ..... Homewood
Swedell, Kent H. ..... Charleston

Templin, Naomi Ruth ..... Louisville
Tetrick, James Merle ..... Casey
Thomas, Robert Daniel ..... Greenup
Tolliver, Marilyn Compher ..... Louisville
Tolly, Shirley Sue ..... Champaign
Townsend, Kay Lynn ..... Tuscola
Tyler, Edith Lorain ..... Charleston

Van Rheeden, Louis Leonard ..... Chestnut
Van Lanken, Roger Alan ..... Tuscola

Wade, Don Ray ..... Paris
Wagner, James Wayne ..... Newman
Walk, Linda Kay ..... Sigel
Walker, Harold Floyd ..... Vandalia
Walker, Terril J. ..... Olney
Ware, Robert Lee ..... Danville
Washburn, Roberta Mathews ..... Bradley
Watkins, Cynthia Ellen ..... Findlay

Watts, Lawrence Otis ..... Waverly
Weis, Marcia Ann ..... Teutopolis
Wheeler, Sharon Mae ..... Mattoon
Wickham, Patricia Morene ..... Cisne
Widicus, Sandra Anna ..... St. Jacob
Wilhelm, Wilbur Lee ..... Villa Grove
Williams, Curtise Duwayne ..... Batavia
Wiman, Loretta Viola ..... Newton
Winder, Richard Scott ..... Monticello
Wise, Charles Ray ..... Grayville
Woodward, Thomas Rex ..... Mt. Vernon
Wright, Carol Lee ..... Olney
Wright, Mickey Roger ..... Beecher City

Young, Jane Elizabeth Drake ..... Paris

Zimmer, Philip Roy ..... Neoga

Men: 91 Women: 89 Total: 180

BACHELOR OF SCIENCE

AUGUST, 1965

Ahmad, Syed Jamil ..... Chicago
Alder, David Stuart ..... Danville
Anfinson, Alan R. ..... Charleston

Brosch, Thomas Roger ..... Springfield
Brumleve, David Harold ..... Greendale

Cade, Harland Roscoe, Jr. ..... Hoopeston
Coates, James Edwin ..... Stockland

Dougherty, Darwin Dean ..... Mattoon

Eads, William Clark ..... Arthur
Eggebrecht, Susan Joyce ..... Staunton

Florini, Robert Dove ..... Shelbyville

Gannon, Michael William ..... Joliet
Garcia, Judith Arlene ..... Skokie

Hanula, John Dennis ..... Decatur

Kaufman, Eugene Ben ..... Sigel
Keefe, Thomas Edward ..... Longview

Moss, Arthur Thomas ..... Tuscola

Oxley, John William ..... Robinson

Pofahl, Melvin William ..... Chicago

Satterwhite, George William ..... Danville
Smith, Edward Dewitt ..... Kankakee
Steigelman, Annette Knight ..... Danville

Truetzschler, Alfred Dean ..... Mt. Olive

Wiest, Jeanie Annis ..... Charleston
Wiest, Joseph Ernest ..... Cerro Gordo

Zenner, Janet Ruth ..... Litchfield
Zvonecek, Gerald James ..... Berwyn

Men: 21 Women: 5 Total: 26

BACHELOR OF SCIENCE IN BUSINESS

AUGUST, 1965

Bilbruck, Robert Wayne ..... Palmyra

Cray, Frances Eileen ..... Clinton

Demoss Edwin Matthew ..... Rushville

Ferrier, Keith R. ..... Charleston

Griffith, Robert Earle ..... Galesburg

Jones, Robert Lloyd, Jr. ..... Racine, Wisconsin

Murphy, Ronald J. ..... Casey

Ogen, Edward Michael ..... Charleston

Phipps, Jon M. ..... Gays

Trenkle, Stephen Martin ..... Leroy

Von Nordheim, Larry E. ..... Minonk

Wolfe, Bobby Lee ..... Mattoon

Men: 11 Women: 1 Total: 12

BACHELOR OF ARTS

AUGUST, 1965

Ahrendt, Ruth Renee ..... Oak Park

Householder, Patricia Jean ..... Chicago

Jordan, F. George ..... Charleston

Woods, Linda Parr ..... Sullivan

Men: 1 Women: 3 Total: 4

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