



1968 Bulletin
Eastern Illinois University
Charleston

GENERAL CATALOG



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. 275

JULY, 1968



69th YEAR

ACADEMIC RECORD 1967-68 SESSIONS

ANNOUNCEMENTS FOR 1968-69 SESSIONS

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NOTICE

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

UNIVERSITY CALENDAR

1968-69

FALL QUARTER, 1968

Tuesday, September 10	Registration and Parents Convocation
Wednesday, September 11	Registration
Wednesday,	
September 11	Last Day to Apply for Fall Quarter Graduation
Thursday, September 12	Classes Begin
Tuesday, October 15	Constitution Examination
Friday, October 18	Last Date for Application for Certification
Thursday, Friday, Monday, Tuesday,	
November 21, 22, 25, 26	Examinations
Wednesday, November 27	Quarter Closes

WINTER QUARTER, 1968-69

Tuesday, December 3	Registration
Tuesday, December 3	Last Day to Apply for Winter Quarter Graduation
Wednesday, December 4	Classes Begin
Friday, December 20 (7:00 P.M.)	Christmas Vacation Begins
Monday, January 6 (8:00 A.M.)	Classes Resume
Friday, January 24	Last Date for Application for Certification
Tuesday, February 11	Constitution Examination
Thursday, Friday, Monday, Tuesday,	
February 27, 28, March 3, 4	Examinations
Wednesday, March 5	Quarter Closes

SPRING QUARTER, 1969

Wednesday, March 12	Registration
Wednesday, March 12	Last Day to Apply for Spring Quarter Graduation
Thursday, March 13	Classes Begin
Friday, April 4	Good Friday
Tuesday, April 15	Constitution Examination
Friday, April 18	Last Date for Application for Certification
Sunday, May 25	Commencement
Monday, Tuesday, Wednesday, Thursday,	
May 26, 27, 28, 29	Examinations
Friday, May 30	Quarter Closes

SUMMER QUARTER, 1969

Monday, June 9	Registration
Tuesday, June 10	Classes Begin
Monday, June 23	Graduate Registration Day
Tuesday, June 24	Graduate Classes Begin
Tuesday, July 1	Last Day to Apply for Summer Quarter Graduation
Friday, July 4	Independence Day
Tuesday, July 15	Constitution Examination
Friday, July 18	Last Date for Application for Certification
Wednesday, Thursday, Friday, Saturday,	
August 13, 14, 15, 16	Examinations
Thursday, August 14	Commencement
Monday, August 18	Quarter Closes

**THE BOARD OF GOVERNORS
OF STATE COLLEGES AND UNIVERSITIES**



APPOINTED MEMBERS

J. BON HARTLINE, Anna	1963-69
W. I. TAYLOR, Canton	1963-69
LELAND WEBBER, Wilmette	1967-69
RICHARD J. NELSON, Evanston	1965-71
ROYAL A. STIPES, JR., Champaign	1965-71
MARION LAMET, Warsaw	1967-71
WILLIAM ALLEN, Bloomington	1967-73
CHARLES A. DAVIS, Chicago	1967-73
WILLIAM E. McBRIDE, Normal	1967-73



EX OFFICIO MEMBERS

RAY PAGE

Superintendent of Public Instruction, Springfield

JAMES A. RONAN

Director, Department of Finance, Springfield



OFFICERS

RICHARD J. NELSON, *Chairman*

W. I. TAYLOR, *Vice Chairman*

FREDERICK H. McKELVEY, *Executive Officer, Springfield*

EMERITUS FACULTY

Robert G. Buzzard, Ph.D.	President	Emeritus
Hobart F. Heller, Ph.D.	Vice President for Instruction	Emeritus
Donald R. Alter, Ph.D.	Professor	Emeritus
Robert L. Blair, 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
E. Chenault Kelly, D.Ed.	Professor	Emeritus
Russell H. Landis, D.Ed.	Professor	Emeritus
Elizabeth K. Lawson, Ph.D.	Professor	Emeritus
Lawson F. Marcy, Ph.D.	Professor	Emeritus
Sadie O. Morris, Ph.D.	Professor	Emeritus
Hans C. Olsen, Ph.D.	Professor	Emeritus
Harris E. Phipps, Ph.D.	Professor	Emeritus
Emma Reinhardt, Ph.D.	Professor	Emeritus
Donald A. Rothschild, Ph.D.	Professor	Emeritus
Roscoe F. Schaupp, 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
Margaret L. Ekstrand, A.M.L.S.	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
Roberta L. Poos, A.M.	Assistant Professor	Emeritus
Florence E. Reid, M.A.	Assistant Professor	Emeritus
Nannilee Saunders, M.A.	Assistant Professor	Emeritus
Lee Anna J. Smock, M.A.	Assistant Professor	Emeritus
Ethel Hanson Stover, A.M.	Assistant Professor	Emeritus
Lottie Leeds, M.S.Ed.	Instructor	Emeritus
Blanche C. Thomas	Registrar	Emeritus
Raymond R. Gregg, A.M.	Director of Business Services	Emeritus



DISABILITY LEAVE

David J. Davis, Ph.D.	Professor
J. Glenn Ross, Ph.D.	Professor
Robert B. Thrall, M.S.	Assistant Professor

Eastern Illinois University

Charleston



FACULTY, 1967-68



ADMINISTRATIVE STAFF

OFFICE OF THE PRESIDENT

- Quincy DoudnaPresident (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

- Peter R. MoodyVice President for Instruction (1967)
Ph.D., Cambridge University
Lawrence A. RingenbergDean of the College of Letters
Ph.D., The Ohio State University and Science (1947)
Lawrence R. NicholsChairman, Division of Latin-American Studies
Ph.D., Duke University (1966)
William M. CloudChairman, Division of Pre-Engineering
Ph.D., University of Wisconsin Studies (1962)
Robert J. Smith ..Chairman, Division of Pre-Medical Studies (1955)
Ph.D., The University of Iowa
Raymond A. PlathChairman, Division of Social Sciences (1946)
Ph.D., University of Wisconsin
Leonard DurhamDirector, Division of Life Sciences (1955)
Ph.D., University of Illinois
Martin SchaeferDean of the Faculty for Professional Education (1958)
Ph.D., The University of Iowa
Robert Zabka.....Director of Off-Campus Student Teaching (1964)
Ph.D., Northwestern University
Lavern M. HamandDean of the Graduate School (1957)
Ph.D., University of Illinois
James F. GiffinDirector of the School of Business (1947)
Ph.D., Northwestern University
Harry J. MerigisDirector of the School of Elementary and
Ed.D., University of Oklahoma Junior High School Teaching (1954)
George W. Schlinsog..Assistant Director of the School of Elementary and
D.Ed., University of Oregon Junior High School Teaching (1967)
Donald G. GillPrincipal of the Laboratory School (1960)
M.Ed., University of Illinois

¹Date of joining staff in parentheses

- Walter S. Lowell Director of the School of Health, Physical
Ed.D., Michigan State University Education and Recreation (1961)
- Tom Katsimpalis Director of Athletics (1959)
M.A., University of Illinois (On sabbatical leave, 1967-68)
- William J. McCabe Acting Director of Athletics (1962)
M.A., The University of Iowa
- Mary Ruth Swope Director of the School of Home Economics (1962)
Ed.D., Columbia University
- Walter A. Klehm Director of the School of Industrial Arts
Ed.D., University of Missouri and Technology (1938)
- Robert Y. Hare Director of the School of Music (1965)
Ph.D., The University of Iowa
- Fred J. Bouknight Assistant to the Director of the School
Ed.D., Teachers College, Columbia University of Music (1959)
- B. Joseph Szerenyi Director of Library Services (1967)
D.Pol.S., Elizabeth University, Hungary
- 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
- Gene W. Scholes Assistant in Audio-Visual Center (1966)
Adv.C., University of Illinois

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
- James D. Corey Associate Dean, Student Personnel Services (1964)
Ed.D., Colorado State College
- Mary P. Rogers Dean of Women (1966)
M.S., Indiana University
- Marie Bevan Assistant Dean of Women (1966)
M.S., University of Wisconsin
- Sallie A. Guy Residence Hall Counselor (1961)
M.A., Syracuse University (On leave, 1967-68)
- 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
- Ann H. Adman Residence Hall Counselor (1966)
M.Ed., Wittenberg University (On leave, 1967-68)
- Doris J. Dunkirk Residence Hall Counselor (1967)
M.S. in Ed., Eastern Illinois University
- Bessie M. Fredericks Residence Hall Counselor (1967)
M.A., University of Missouri
- Emma J. Jordan Residence Hall Counselor (1967)
M.A., University of Illinois
- Margaret J. Reed Residence Hall Counselor (1967)
M.A., Western Michigan University
- Donald A. Kluge Assistant Dean, Student Personnel Services
M.A., Northwestern University and Dean of Men (1957)
(On sabbatical leave 1967-68)
- Clark M. Maloney Acting Dean of Men (1966)
M.A., Kent State University

- Don J. LaRue.....Acting Assistant Dean of Men (1965)
M.A. in Ed., Central Missouri State College
- Dwight O. Douglas.....Residence Hall Counselor,(1965)
M.S. in Ed., Eastern Illinois University
- Jerry Zachary.....Residence Hall Counselor(1966)
Adv.C., University of Illinois
- Louis V. Hencken.....Residence Hall Counselor (1967)
M.S. in Ed., Eastern Illinois University
- Eugene C. Schneider.....Residence Hall Counselor(1967)
M.S., Indiana University
- Donald J. Wermers.....Residence Hall Counselor (1967)
M.Ed., University of Florida
- William D. Miner...Assistant Dean, Student Personnel Services (1950)
Ph.D., Indiana University
- James D. Corey.....Director of Counseling Center and
Ed.D., Colorado State College Testing Services (1964)
- Dale L. Robey.....Assistant, Counseling Center and
Ed.D., Indiana University Testing Services (1967)
- David T. Baird.....Counselor (1959)
M.S. in Ed., Indiana University
- Ross C. LymanDirector of Financial Aids (1961)
B.S., University of Illinois (On sabbatical leave, February to
August (1968)
- Sue C. Sparks.....Assistant Director of Financial Aids (1966)
B.S.Ed., Central Missouri State College
- Ruth H. Gaertner...Director of Residence Hall Food Service (1947)
M.S., Iowa State College
- Jerry D. HeathDirector of Health Services and
M.D., University of Illinois University Physician (1956)
- Jack T. Harper.....Assistant, Health Services (1966)
M.D., University of Georgia
- Albert G. Green.....Director of Housing (1966)
Ed.D., University of Southern Mississippi
- Lois M. Kramer.....Assistant Director of Housing (1966)
M.A., Boston University
- Tymon F. Mitchell.....Director of University Union (1959)
M.S. in Ed., Eastern Illinois University
- Herbert L. Brooks...Assistant Director of University Union (1966)
B.S. in Ed., Eastern Illinois University
- James R. Greene....Assistant Director of University Union (1967)
- Glenn D. Williams.....Dean of Student Academic Services and
Ph.D., The Ohio State University Director of Extension (1960)
- George Hackler, Jr....Assistant, Student Academic Services (1967)
M.S. in Ed., Eastern Illinois University
- Maurice W. Manbeck.....Assistant Dean, Records (1957)
Ph.D., University of Minnesota (On sabbatical leave, winter
quarter 1967-68)
- Calvin B. Campbell.....Assistant, Records (1966)
M.A., University of New Mexico
- Samuel J. Taber.....Assistant Dean, Registration and
M.S. in Ed., Southern Illinois University Advisement (1960)
(On sabbatical leave 1967-68)
- Edward T. Graening...Substitute Assistant Dean, Registration and
M.S., University of Illinois Advisement (1967)
- William R. Quick...Assistant, Registration and Advisement (1967)
M.S. in Ed., Eastern Illinois 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

- Karen A. Hartman.....Academic Adviser (1966)
 M.S. in Ed., Southern Illinois University
- Thomas McDevitt.....Academic Adviser (1966)
 M.A., Southern Illinois University
- Claud D. Sanders.....Academic Adviser (1966)
 M.S. in Ed., Southern Illinois University
- Robert G. Winkleback.....Academic Adviser (1966)
 M.S. in Ed., Eastern Illinois University
- Douglas A. Bonewitz.....Academic Adviser (1967)
 M.A., Ball State 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
- Jack H. Brown...Assistant Director of Admissions and High School
 Relations (1966)
 M.Ed., University of Missouri
- Harley J. Holt.....Director of Business Services (1963)
 M.S., University of Wisconsin
- Marion L. Zane.....Assistant Director of Business Services (1965)
 M.S. in Ed., Eastern Illinois University
- Everett Alms.....Supintendent of Physical Plant (1965)
- Edward L. Dever.....Internal Auditor (1967)
 B.S. in Ed., Eastern Illinois University
- John A. Walstrom..Technical Director, Data Processing Center (1959)
 M.S. in Ed., Eastern Illinois University

ALUMNI SERVICES, INFORMATION, UNIVERSITY PUBLICATIONS, ADMINISTRATIVE STUDIES

- Kenneth E. HeslerDirector of Alumni Services
 Ed.M., University of Illinois and Public Relations (1951)
- Harry ReadDirector of Information and University Publications (1964)
 B.S. in Ed., Eastern Illinois University
- Thomas E. HoppinDirector of Sports Information (1966)
- Robert H. WeidhunerAssistant, Administrative Studies (1966)
 B.S., Southern Illinois University

INSTRUCTIONAL STAFF

- David C. Ahlstrom, Ph.D.Eastman School of Music
 Associate Professor, Music Theory, History, and Literature (1967)
- Dewey H. Amos, Ph.D.University of Illinois
 Associate Professor, Geography. (1965)
- Eulalee L. Anderson, M.S.Eastern Illinois University
 Instructor, Library (Part-Time). (1967)
- Mary L. Anderson, M.A.George Peabody College for Teachers
 Assistant Professor, Laboratory School. (1958)
- Leslie Andre, D.Pol.S.Franz Josef Royal University
 Assistant Professor, Library. (1962)
- Richard D. Andrews, Ph.D.University of Illinois
 Assistant Professor, Zoology. (1966)
- Charles B. Arzeni, Ph.D.University of Michigan
 Associate Professor, Botany. (1965) (On leave fall quarter, 1967)
- D. Ferrel Atkins, Ph.D.University of Kentucky
 Professor, Mathematics. (1958)
- Alan R. Aulabaugh, Ph.D.The University of Iowa
 Professor, Music Theory, History and Literature.** (1957)

*Denotes department head.

**Denotes acting department head.



- Parviz Chahbazi, Ph.D. Cornell University
Associate Professor, Psychology.* (1965)
- Carrie C. Chen, M.S. University of Pittsburgh
Instructor, Library. (1968)
- Yung Ping Chen, Ph.D. University of Maryland
Associate Professor, Political Science. (1966)
- Frank P. Chizevsky, M.S. Millikin University
Instructor, Physical Education for Men. (1966)
- Charles L. Christmas, Ph.D. University of Georgia
Assistant Professor, Mathematics. (1965)
- William M. Cloud, Ph.D. University of Wisconsin
Professor, Physics. (1962)
- H. Logan Cobb, Ph.D. University of Missouri
Professor, Foreign Languages. (1963)
- Harold G. Coe, Ph.D. Purdue University
Associate Professor, Psychology. (1965)
- George M. Colby, M.A. University of Chicago
Assistant Professor, English. (On sabbatical leave 1967-68) (1962)
- Wayne D. Coleman, D.Ed. Colorado State College
Associate Professor, Industrial Arts and Technology.* (1957)
- Joseph E. Conaway, M.A. Pennsylvania State University
Assistant Professor, Theater Arts. (1967)
- Joseph T. Connelly, M.Ed. University of Illinois
Assistant Professor, Political Science. (1958)
- Beverly A. Cook, M.A. Ohio State University
Instructor, Physical Education for Women. (1967)
- Lewis H. Coon, Ed.D. Oklahoma State University
Associate Professor, Mathematics. (1965)
- Alice M. Cooper, M.S. University of Illinois
Assistant Professor, Library. (1968)
- George K. Cooper, Ph.D. University of Michigan
Professor, Business Education and Secretarial Studies.* (1962)
- Edward M. Corley, Ph.D. Oklahoma State University
Assistant Professor, Economics. (1967)
- Calvin Countryman, D.Ed. Pennsylvania State University
Professor, Art.* (1945)
- Velma V. Cox, M.Ed. University of Missouri
Assistant Professor, Laboratory School. (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, Educational Psychology and Guidance. (1961)
- Laurence E. Crofutt, M.A. Indiana University
Assistant Professor, Botany. (1967)
- Richard L. Crouse, M.A. University of Wisconsin
Assistant Professor, Foreign Languages. (1966)
- George L. Cunningham, Ph.D. University of California, Berkeley
Professor, Chemistry. (1961)
- Carleton E. Curran, Ph.D. University of Wisconsin
Associate Professor, History. (1966)
- Rex V. Darling, P.E.Dir. Indiana University
Assistant Professor, Physical Education for Men. (On leave 1967-68)
(1945)
- M. Marise Daves, Ed.D. New York University
Associate Professor, Physical Education for Women. (1955)
- Garret W. DeRuiter, M.F.A. Southern Illinois University
Instructor, Art. (1965)
- Bernard J. Derwort, Ph.D. St. Louis University
Professor, Mathematics. (1964)



- John R. Faust, Ph.D. University of North Carolina
Associate Professor, Political Science. (1966)
- Audrey Fedor, A.B.
Faculty Assistant, Library. (Part-Time) (1954)
- Max B. Ferguson, Ph.D. The University of Iowa
Professor, Zoology. (1950)
- M. Lorraine Flower, Ph.D. Wayne State University
Associate Professor, Physical Education for Women. (1965)
- Thomas W. Floyd, Ed.D. University of Illinois
Associate Professor, Faculty for Professional Education. (1967)
- James M. Flugrath, Ph.D. Wayne State University
Assistant Professor, Speech Correction. (1965)
- Nancy S. Flugrath, B.S. in Ed. California State College
Substitute Faculty Assistant, Laboratory School. (1967)
- C. Dan Foote, Ph.D. University of Illinois
Assistant Professor, Chemistry. (1965)
- John P. Ford, Ph.D. Ohio State University
Assistant Professor, Geography. (1966)
- Melvin O. Foreman, Ph.D. University of Chicago
Professor, Chemistry. (1946)
- Paul Foreman, Ph.D. University of Illinois
Substitute Assistant Professor, Zoology. (1966)
- Clifton N. Foster, Ed.D. University of Nebraska
Assistant Professor, Faculty for Professional Education. (1966)
- Delbert D. Foust, Adv.C. University of Illinois
Assistant Professor, Laboratory School. (1964)
- Duane K. Fowler, M.S. Kansas State University
Instructor, Physics. (On leave 1967-68) (1965)
- Ewell W. Fowler, Ed.D. University of Missouri
Professional, Industrial Arts and Technology. (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. The University of Iowa
Professor, Theater Arts.* (1947)
- Pauline Galbreath, M.S.L.S. University of Illinois
Instructor, Library. (1967)
- Curtis R. Garner, Ed.D. North Texas State College
Professor, Administration and Supervision. (1955)
- Donald P. Garner, Ph.D. Wayne State University
Professor, Speech.* (1963)
- Mary L. Gaskill University of Illinois
Assistant Professor, Laboratory School. (1963)
- Bessie Gerstenberger, M.A. The University of Iowa
Instructor, Physical Education for Women. (1966)
- Luther R. Gibson, B.S. in Ed. Eastern Illinois University
Faculty Assistant, Physics. (On leave 1967-68) (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. The University of Iowa
Professor, Faculty for Professional Education. (1955)
- Helen R. Graves, M.S. University of Wisconsin
Assistant Professor, Business Education and Secretarial Studies. (1966)



- James A. Herauf, M.S.Southern Illinois University
Instructor, Health Education. (1965)
- Billy J. Heyduck, M.Ed.University of Illinois
Assistant Professor, Art. (1966)
- George M. Hicks, M.M.Louisiana State University
Assistant Professor, Vocal Music. (1966)
- Gretchen Hieronymus, D.Ed.University of Illinois
Associate 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 (1965)
- Mildred Hofacker, M.A.Western Reserve University
Substitute Instructor, Speech (1956)
- Arnold J. Hoffman, M.S.University of Illinois
Assistant Professor, Chemistry (1943)
- Arthur C. Hoffman, M.B.A.University of Wisconsin
Assistant Professor, Accounting. (1966)
- John C. Hoffman, M.A.The University of Iowa
Instructor, English. (1966)
- Bertrand P. Holley, M.A.Northwestern University
Assistant Professor, Management. (1946)
- Charles A. Hollister, Ph.D.University of Pennsylvania
Professor, Political Science* (1967)
- 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
Professor, Speech. (On leave 1967-68) (1956)
- Judith Ann Hopkins, B.A.Butler University
Faculty Assistant, Physical Education for Women. (1965)
- Stephen M. Horak, Ph.D.University of Erlangen
Assistant Professor, History. (1965)
- Kathleen M. Howell, M.A.Ohio State University
Assistant Professor, Home Economics and Education (On leave through
February 29, 1968) (1967)
- Nai-chao-Hsu, Ph.D.Washington University
Associate Professor, Mathematics. (1966)
- Daniel E. Hughes, M.A.Boston College
Assistant Professor, English and Education. (1967)
- Lawrence B. Hunt, M.S.University of Wisconsin
Assistant Professor, Zoology. (1967)
- Ralph R. Hunt, M.A.Indiana University
Instructor, English. (1966)
- John G. Husa, Ph.D.University of Chicago
Associate Professor, Botany.* (1966)
- Robert W. Hussey, D.Ed.Colorado State College
Associate Professor, Physical Education for Men. (1966)
- 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
Associate Professor, Laboratory School. (1958)
- Robert P. Jochmans, Ed.D.Wayne State University
Associate Professor, Foreign Languages. (1967)
- Charles H. Johnson, J.D.University of Wisconsin
Associate Professor, Management. (1967)
- June Johnson, D.M.A.University of Illinois
Assistant Professor, Vocal Music. (1960)

- Oren F. Lackey, M.S. University of Illinois
Assistant Professor, Biological Sciences-Education. (1963)
- Jane Lahey, M.S.Ed. University of Illinois
Assistant Professor, Management. (1957)
- Thomas H. Lahey, Ed.D. University of Virginia
Associate Professor, Laboratory School-Psychology. (1966)
- Jon M. Laible, Ph.D. University of Illinois
Assistant Professor, Mathematics. (1964)
- Bert A. Landes, M.A.T. Colorado State University
Instructor, Botany—Zoology—Education. (1967)
- Floyd A. Landsaw, M.S. in Ed. Eastern Illinois University
Assistant Professor, Laboratory School. (1965)
- Harry R. Larson, Ed.D. Colorado State College
Assistant Professor, Faculty for Professional Education. (1960)
- Karen J. Larvick, M.M. University of Wisconsin
Instructor, Keyboard Music. (1966)
- Herbert Lasky, Ph.D. New York University
Assistant Professor, History. (1966)
- Richard W. Lawson, M.S.L.S. Western Reserve University
Instructor, Library. (On leave 1967-68) (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)
- Glenn Q. Lefler, Ph.D. Indiana University
Professor, Physics.* (1946)
- Brenda R. Lehmann, B.S.Ed. Eastern Illinois University
Faculty Assistant, Laboratory School (Part-Time) (1967)
- Roland Leipholz, Ed.D. University of Michigan
Associate Professor, Art, (On sabbatical leave winter and spring
quarters 1967-68) (1955)
- Patrick M. Lenihan, Ph.D. University of Wisconsin
Assistant Professor, Economics (1967)
- J. Patrick Lewis, M.A. Indiana University
Instructor, Economics. (1967)
- Maurice C. Libbey, M.S. Columbia University
Instructor, Library. (1967)
- Thomas J. Libby, M.A. University of Minnesota
Instructor, Art and Education. (1967)
- John W. Linn, M.A. San Diego State College
Instructor, Art. (1967)
- Claire R. Livingston, M.A.T. College of St. Thomas
Instructor, English. (1967)
- Jerome B. Long, Ph.D. Fordham University
Assistant Professor, Philosophy. (1966)
- Arthur J. Looby, Ed.D. University of Missouri
Associate Professor, Psychology. (1959)
- Walter S. Lowell, Ed.D. Michigan State University
Professor, Physical Education for Men. (1961)
- Fred W. MacLaren, Ph.D. University of Oklahoma
Associate Professor, Faculty for Professional Education. (1965)
- John N. Maharg, D.Ed. University of Illinois
Associate Professor, Vocal Music.* (1958)
- Linda F. Malila, B.A. Michigan State University
Faculty Assistant, Foreign Languages. (1967)
- Elwyn L. Martin, Ph.D. University of Michigan
Associate Professor, Geography. (1956)
- Jacinto C. Martinez, M.S. East Texas State University
Instructor, Zoology. (1966)
- Fred J. Marzan, M.M. University of Michigan
Assistant Professor, Instrumental Music. (1967)



- James R. Moore, M.S. Southern Illinois University
Assistant Professor, Marketing. (1967)
- John H. Moore, M.A. Michigan State University
Assistant Professor, Sociology-Anthropology. (1965)
- Richard L. Morfit, Ph.D. Université Laval
Professor, Foreign Languages. (1963)
- Mildred D. Morgan, M.A. Columbia University
Assistant Professor, Laboratory School. (1946)
- Herbert O. Morice, Ed.D. University of Houston
Associate Professor, Psychology (1967)
- Byron E. Munson, Ph.D. University of Illinois
Professor, Sociology-Anthropology.* (1967)
- Ahmad Murad, Ph.D. University of Wisconsin
Associate Professor, Economics. (1963)
- Louise Murray, Ph.D. Northwestern University
Professor, Laboratory School. (1951)
- 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)
- Martha L. Neal, M.Ed. University of Illinois
Instructor, Laboratory School. (1967)
- Allen R. Neff, M.A. Ohio State University
Instructor, English. (1967)
- Herbert P. Neitzel, M.A. Montana State University
Instructor, Art. (1964)
- Ben Newcomb, M.A. Eastern New Mexico University
Instructor, Physical Education for Men. (1965)
- Grant H. Newman, Ed.D. University of Illinois
Assistant Professor, Music Education. (1967)
- Lawrence Nichols, Ph.D. Duke University
Associate Professor, History. (1962)
- Phyllis D. Nies, M.S. University of Illinois
Instructor, Physical Education for Women. (1965)
- Henry C. Nilsen, M.S. University of Illinois
Instructor, Life Sciences. (1967)
- Janet Norberg, Ph.D. The University of Iowa
Professor, Speech. (1963)
- Harold D. Nordin, M.A. Northern Illinois University
Instructor, Economics. (1967)
- William J. Nye, M.S. University of Illinois
Assistant Professor, Library. (1967)
- 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
Associate Professor, Foreign Languages. (1962)
- Maria M. Ovcharenko, Ph.D. Charles University
Associate Professor, Foreign Languages. (1964)
- Paul D. Overton, Ed.D. Colorado State College
Associate Professor, Educational Psychology and Guidance. (1962)
- Ronald Paap, A.M. Colorado State College
Assistant Professor, Physical Education for Men. (1963)
- Raymond F. Padovan, M.S. Southern Illinois University
Instructor, Physical Education for Men. (1966)
- Francis W. Palmer, Ph.D. The University of Iowa
Professor, English. (1945)
- Mabel C. Paterson, Ph.D. University of Illinois
Associate Professor, Zoology. (1967)

- 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)
- Dale L. Robey, Ed.D. Indiana University
Associate Professor, Educational Psychology and Guidance. (1967)
- Richard M. Robinson, M.A. Michigan State University
Instructor, English (1967)
- E. Ann Roderick, B.S. in Ed. Eastern Illinois University
Faculty Assistant, Library. (Part-Time) (1966)
- Roger D. Roderick, M.S. University of Illinois
Instructor, Economics (On leave 1967-68) (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)
- Paul F. Ruddell, M.S. Purdue University
Instructor, Physics (1967)
- Al G. Rundle, M.A. University of Denver
Assistant Professor, Speech. (1963)
- Charles G. Russell, M.A. Southern Illinois University
Instructor, Speech. (1965)
- Betty G. Ruyle, M.A. East Carolina College
Substitute Instructor, Laboratory School. (1965)
- Brian A. Salchert, M.F.A. University of Iowa
Instructor, English (1967)
- George P. Sanders, M.M. Yale University
Instructor, Keyboard Music. (1964)
- Frank E. Schabel, B.A.Ed. State University of New York at Buffalo
Faculty Assistant, Laboratory School (1967)
- Martin Schaefer, Ph.D. The 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)
- John J. Schuster, M.S. University of Illinois
Assistant Professor, Instrumental Music. (1964)
- Eileen P. Schutte, D.Ed. Northern Illinois University
Associate Professor, Business Education and Secretarial Studies (1967)
- Mary E. Scott, M.S. in L.S. Columbia University
Assistant Professor, Library. (1948)
- Walter M. Scruggs, Ph.D.¹ Harvard University
Professor, Zoology. (1929)
- Phillip M. Settle, M.F.A. University of Illinois
Assistant Professor, Laboratory School. (1957)
- Carl N. Sexton, P.E.D. Indiana University
Associate Professor, Health Education. (1966)
- Glenn H. Seymour, Ph.D. University of Illinois
Professor, History. (1929)
- Maurice D. Shepherd, M.A.T. Indiana University
Instructor, Chemistry, Physics, and Education (1967)
- Terry R. Shepherd, M.S. in Ed. Eastern Illinois University
Instructor, Laboratory School. (1966)
- 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.L.S., M.A. New York University
Assistant Professor, English. (1965)

¹On disability leave beginning January 21, 1968.

- Charles Switzer, Ph.D. Michigan State University
Associate Professor, English. (1966)
- 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)
- Dean A. Teel, Ed.D. Texas A&M University
Associate Professor, Industrial Technology (1967)
- 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)
- Daniel E. Thornburgh, M.A. The 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. (1960)
- Donald F. Tingley, Ph.D. University of Illinois
Professor, History. (1953)
- Jeanne C. Tingley, B.Ed. Eastern Illinois University
Faculty Assistant, Physical Education for Women (1961)
- Lynn E. Trank, Ph.D. The Ohio State University
Professor, Art. (1952)
- Charles Tucker, B.S. in Ed. Eastern Illinois University
Faculty Assistant, Chemistry. (1955)
- Marie N. Tyser, Ph.D. The Ohio State University
Associate Professor, English. (1961)
- David Ulfeng, M.S.* University of Illinois
Assistant Professor, Laboratory School. (1965)
- Helen VanDeventer, M.S. in Ed. Eastern Illinois University
Assistant Professor, Foreign Languages-Education. (1960)
- Charles R. Vaughan, M.S. in Ed. Eastern Illinois University
Instructor, Physical Education for Men. (1965)
- Peter M. Vivona, M.A. The Ohio State University
Instructor, Instrumental Music (1967)
- Gustav M. Vogel, Staatsexamen. University of Munich
Assistant Professor, Foreign Languages. (1967)
- Leyla Waddell, B.S.Ed. Eastern Illinois University
Faculty Assistant, Library (Part-Time) (1967)
- Robert C. Waddell, Ph.D. Iowa State College
Professor, Physics. (1948)
- Eugene M. Waffle, Ph.D.¹ George Peabody College for Teachers
Professor, English. (1926)

¹ Deceased, February 8, 1968.

- M. Thomas Woodall, Ph.D.....The University of Iowa
Assistant Professor, Physical Education for Men. (1965)
- Wayne E. Wyler, M.S.....Brigham Young University
Assistant Professor, Accounting. (1965)
- Marina Su-Chin Yu, M.A.....Texas Woman's University
Instructor, Physical Education for Women. (1966)
- 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. (On leave 1967-68) (1965)
- Gary L. Zwicky, D.Mus.University of Illinois
Assistant Professor, Keyboard Music. (1966)

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. 316

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 1967. 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 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 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.

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. Scheduled for completion in 1968 are 64 additional units. They are located on Terrace Lane at the south edge of the campus.

Fine Arts Center

This building houses the School of Music, The Department of Theater Arts and the Department of Art. It contains a "little theater," numerous practice and rehearsal rooms for music, and studios and laboratories.

Andrews Hall

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

Lawson Hall

Completed in 1967, Lawson Hall is a "mirror image" of the nine-story Andrews Hall. It was named for Dr. Elizabeth K. Lawson, Dean of Women from 1939 until her retirement in 1966.

Clinical Services Building

This structure houses the health service, reading, speech and hearing clinics, and counseling and testing 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. Construction of an addition is underway.

Booth House

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

of Health, Physical Education and Recreation, School of Home Economics, School of Industrial Arts and Technology, and the Faculty for Professional Education. 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	Latin
Botany	Latin American Studies
Business	Manual Arts Therapy
Chemistry	Mathematics
Elementary Education	Music
English	Physical Education, Women
French	Physical Education, Men
Geography	Physics
German	Social Science
History	Spanish
Home Economics	Speech
Industrial Arts	Speech Correction
Junior High School Education	Theater Arts
	Zoology

Minors:

Art	Latin
Biological Science	Library Science
Botany	Mathematics
Business	Music
Chemistry	Physical Education
English	Physics
French	Psychology
Geography	Russian
German	Safety and Driver Education
Health Education	Social Science
History	Spanish
Home Economics	Speech
Industrial Arts	Theater Arts
Journalism	Zoology

Bachelor of Science in Business

Majors:

Accounting	Management
Marketing	Secretarial

Economics
 English
 French
 Geography
 German
 History
 Home Economics
 Industrial Arts
 Latin
 Latin American Studies
 Mathematics
 Music

Philosophy
 Physical Education
 Physics
 Political Science
 Psychology
 Sociology
 Spanish
 Speech
 Speech Correction
 Theater Arts
 Zoology

Minors:

Art
 Botany
 Business
 Chemistry
 Economics
 English
 French
 Geography
 German
 History
 Home Economics
 Industrial Arts
 Journalism
 Latin

Library Science
 Mathematics
 Music
 Philosophy
 Physics
 Political Science
 Psychology
 Russian
 Sociology
 Spanish
 Speech
 Theater Arts
 Zoology

Master of Science in Education

Areas of Concentration:

Art
 Biological Sciences
 Business Education
 Educational Administration
 Elementary Education
 English
 Foreign Languages
 Geography
 Guidance and Counseling
 History

Home Economics
 Industrial Arts
 Mathematics
 Music
 Physical Education
 Physical Science
 Social Science
 Speech
 Speech Correction

Master of Arts

Majors:

English
 French
 Geography
 History
 Mathematics

Music
 Political Science
 Spanish
 Speech

United States and several foreign countries. Subscription rates (which include membership in the Alumni Association) are \$2.00 for one year, \$4.00 for two years, and \$5.00 for three years.

The Eastern Illinois University Foundation

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

Membership of the Foundation consists of 100 persons, including alumni and friends of the university. Honorary members without vote are the president of the university, the president of the Board of Governors of State Colleges and Universities, the president of the Alumni Association, the director of business services, and the director of alumni services.

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

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

An off-campus registered house is a home in the community which has been approved as meeting the standards set by the university. A list of registered houses for single students is maintained in the Housing Office. 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 may secure a list of off-campus apartments and houses at the Office of the Director of Married Student Housing.

GENERAL SERVICES

Counseling

The Counseling Center is staffed by professional counselors who assist students in matters pertaining to vocational choice, personal and social adjustment, and educational development. Limited psychological services are available without charge.

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.

materials such as films, filmstrips, and recordings are available both from a small on-campus library and from rental sources. Orders for rental films usually take three weeks. Limited preview services are available. 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 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 except two-week periods at the beginning and end of each quarter. Used books are sold to students at a ten percent discount from the cost price for each time the book has been checked out.

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

Library Services

Booth Library. This library provides an openstack collection of approximately 146,000 books and micro-texts for instructional and recreational purposes. Over 5,000 cataloged recordings for leisure-time enjoyment of music and the spoken word are available in the Franklyn L. Andrews Music Room. The library is a selective depository for federal documents. It receives currently more than 1,400 periodicals. A Browsing Room for general reading and a publisher's exhibit of textbooks and other materials for elementary and secondary schools are also provided. Art exhibits, arranged by the Art Department, are shown in the Paul Turner Sargent Art Gallery on the ground floor of the building.

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

Reserve Library. Books which departments request for reserve circulation are located in the Reserve Library in Old Main.

allocation of funds from the activity fees is made by the Apportionment Board, after consideration of budgets presented by the several major activities supported in whole or in part by the fund.

Artists Series

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

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

Lecture Series

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

University Union Activities

The University Union houses a cafeteria, snack bar, game rooms, bowling alley, ballroom, lounges, and offices for the Director, Assistant Director, Director of the University Union Food Services, and the Student Senate. A committee of the Student Activities Board, assisted by the Union Director, plans activities for the students such as dances, receptions, recitals, billiards, bridge, chess contests, and instruction.

Organizations wishing to use university facilities may schedule the facilities at the University Union office.

Forensics

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

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

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

arts. These shows include paintings, ceramics, photography, sculpture, jewelry, prints, textiles—a collection is usually on display for a three-week period. Special lectures and films related to the exhibitions are scheduled from time to time. This activity provides important original works for study in art classes.

Publications

Student publications are a semi-weekly newspaper, the *Eastern News*; a literary magazine, the *Vehicle*; and a yearbook, the *Warbler*. The newspaper is published by a student staff with a faculty 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 the *Warbler*.

Women's Athletics

The Department 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 Athletic Association* by participating in one activity. Any active member is eligible to vote, to attend the annual banquet, to travel to other colleges for competition, and to participate in the sports-days held at the university. There are fifteen activities during the year: apparatus, archery, badminton, baitcasting, bowling, canoeing, fencing, folk dancing, 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 Department of Physical Education for Men offers an intramural program with opportunities for participation in recreative physical activities. Participation is voluntary and open to all students. The objective of this program is to make recreation and physical development available to every student.

Intercollegiate Athletics

The program of intercollegiate athletics is dedicated to a belief that athletic competition promotes individual development of traits such as sportsmanship, fair play, honesty, fellowship, understanding, and adherence to democratic ideals to the end that personal growth

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, Council on Student Life, Consultative Council on Administration, Consultative Council on Instruction, Independent Student Association, Interdepartmental Forum, Pink Panthers, S.A.R.I.A., 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 Chi, Eastern Illinois University 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 appointed 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

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 motor vehicle found parked on the campus without a registration sticker will be charged a \$5 late registration fee.

Parking Permits

Application for a parking permit should be made at the Telephone and Security Building. A committee of faculty and students reviews all requests and makes assignments based upon such factors as distance, employment, and physical disability. The charge for the permit is \$1 or \$2 depending on lot assignment. A permit for the summer session is 50¢.

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 regulation 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.

A violator of the freshman motor vehicle regulation will be subject to a penalty of \$50 for the first and second offenses and will be automatically suspended from the university for the third offense. A violator may appeal his case to the Appeal Committee of the Freshman Motor Vehicle Regulation.

BICYCLE REGISTRATION AND CONTROL

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

Registration

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

Penalties for Violation and Noncompliance

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

Extension Fees

The fee is \$24.00 for each four-quarter-hour course with an additional charge of \$2.50 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 \$15 is charged to a student who registers after the registration dates shown in the catalog or who fails to pay all fees on registration day. This fee is non-refundable. No registrations are accepted after the 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 will be subject to a late testing fee of \$1 in addition to the routine charge for the administration of the American College 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. The fee of \$15 for graduate degree candidates and \$10 for undergraduate degree candidates includes the cost of cap and gown rental. The last day for applying for graduation for a particular quarter is registration day of that quarter.

Transcript Fee. The university will furnish one transcript of the academic record of a student when requested to do so. A fee of \$1 will be charged for each transcript issued after the first one. An additional 50c fee will be charged for each extra copy of the

Four- and six-person suites are available in the Adlai E. Stevenson Memorial Tower. Details concerning residence hall occupancy and installment payments are found in the residence hall contract or are available from the Office of the 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 fees must be preserved by the student during the quarter involved. A fee of \$1 will be charged for any duplicate official receipt obtained from the cashier.

REFUNDS

Withdrawal

Regular. If a student withdraws from the university during a quarter by completing the procedure described in Section V and if the 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 must accompany the request for refund.

Military Duty. A student called 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 for classes, all fees will be refunded if notice has been 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 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.

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 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 may be used concurrently with the G.I. Bill.

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

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.

dramatics, debate, journalism, and music. Approved by the Board of Governors of State Colleges and Universities, the talent scholarship program is financed through a student grant-in-aid fee. Selection of the recipients is made by the Financial Grants Committee.

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

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

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

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

Irvin L. Sparks Memorial Scholarship. Established in 1966 by friends and colleagues of the late Dr. Irvin L. Sparks, professor of physics at Eastern Illinois University. The award will be made each year to an incoming freshman student who plans to major in physics and who has an outstanding high school scholastic record in that field of study.

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.

for his own indebtedness. Repayment does not begin until the student either graduates or ceases full-time study.

Maximum Loan Amounts

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

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

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

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

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

The amount of the loan will be determined by the university on the basis of availability of funds and the student's financial need.

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.

IV. Admission, Registration, and Advisement

Admission and Readmission

Policies

First-Time-in-College Students, Illinois Residents. In order that the University may make full utilization of its faculty and facilities and avoid overcrowding either in classrooms or in housing, the following admissions policy will be observed in 1969-70.

Summer Quarter, 1969. Applicants will be considered for admission on the basis of sixth semester transcripts regardless of rank in class, except that students who rank in the lowest one-third may be admitted only on final probation. Immediately after completion of all application materials, eligible applicants will be notified that they are accepted contingent upon final evidence of high school graduation.

Fall Quarter, 1969. Applicants who on the basis of sixth semester transcripts rank in the upper forty per cent of their high school classes will be granted immediate acceptance. Applicants who on the basis of seventh semester transcripts rank in the upper fifty per cent of their high school classes will be considered provided enrollment limits have not been reached.

Winter Quarter, 1969-70. Applications from students who rank in the upper fifty per cent of their high school classes will be considered. Students who rank in the upper sixty per cent, but not in the upper fifty per cent, will be considered only if space is available.

Spring Quarter, 1970. Applications from students who rank in the upper sixty per cent of their high school classes will be considered insofar as space is available.

High School graduates who have been out of school one year or more may apply for admission in any quarter regardless of rank in class; if in the lowest one-third of their class they may be admitted only on final probation.

Individuals with High School Equivalency Certificates granted as a result of a General Educational Development Test are admitted in good standing in any quarter.

Out-of-State Freshman Applicants. Out-of-state applicants must meet the same admissions requirements as Illinois high school students, except that only those who rank in the upper two-thirds of their high school graduating classes will be considered for admission.

from a recognized high school with a recommendation of the high school principal; in this case requirements for high school graduation must be completed during the freshman year.

Graduate Students. See Section VIII. Graduate Study.

Procedures for Applying for Admission

An application form may be obtained by writing to the Admissions Office. The form 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 applicant 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 to the Admissions Office transcripts that include all courses attempted and completed. The request for a transcript should include a request to transmit scores on entrance examination tests. (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 completed and processed. The Official Permit to Enroll must be presented at the time the student registers.

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 to the Office

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

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

ACADEMIC ADVISEMENT

New Students

Each new student is assigned to an adviser who assists him in the preparation of his academic program. During the orientation or registration days the adviser and the student together plan his program. 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 the application for readmission has been approved, the student is assigned to his major department or his former advisor 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. Undergraduates enrolling at Eastern Illinois University for the first time, whether as first quarter freshmen or as students with advanced standing, are required to be present. Activities are planned to familiarize them with the University in order that they may understand its rules and regulations and become aware of the educational, social and recreational opportunities it provides. A schedule of activities is provided by mail.

required for graduation and they do not reduce the requirements pertaining to majors and minors.

Credit for Junior College Courses. A student may transfer credit in courses passed which average 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 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 at least one calendar year of full time active duty are allowed four quarter hours credit in Health Education 120 on application and are exempted from six required physical education courses. 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 at Eastern Illinois University 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.

9. Proficiency examinations may not be given for credit in required physical education or applied music.

Advanced Placement. Students who submit scores for Advanced Placement Tests administered by the College Entrance Examination Board will have their records evaluated to determine proper placement and proper credit. College credit granted will be treated as transfer credit without a grade; such credit will count toward graduation and may be used in fulfilling specific curriculum requirements.

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.

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
P	Pass	...
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 quar-

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.

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."

Extended Final Probation

A student who during a quarter of final probation reduces his grade point deficit by at least four points will be classified as on extended final probation, and be subject to all the rules which govern final probation.

Exclusion (Dropped)

A student is dropped for low scholarship (1) if at the end of a quarter on Final Probation he has neither attained good standing nor qualified for "Extended Final Probation" (2) if after reattaining good standing, he fails at any time to maintain 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. A period of one quarter 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 follows: the amount of credit toward graduation is limited to the total represented by the courses previously passed with grade of C or higher; 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.

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 whose major is speech correction may carry eighteen hours when enrolled for advanced clinical practice.

A student whose major is 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 fall, winter or spring 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 instructors may 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

Recording of Grades Upon Withdrawal

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 VII and IX.

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 minimum of 64 quarter hours must be completed in residence at this institution.

Deadline dates for application for graduation:

Fall Quarter.....	September 10, 1968
Winter Quarter.....	December 3, 1968
Spring Quarter.....	March 12, 1969
Summer Quarter.....	June 23, 1969

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

Certification

B.S. in Ed. Degree. 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 the section on Graduation Requirements.

Administrative Certification. Graduates of an approved program in administration should make application for cards of entitlement through the Department of Supervision and Administration, Faculty for Professional Education.

Placement Office

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

TRANSCRIPTS

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

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

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

A fee of one dollar is charged for each transcript issued after the first one. Fifty cents is charged for each extra copy of the transcript when more than one is made at one time.

VI. Extension Services

ESTABLISHING CENTERS

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

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

ENTRANCE REQUIREMENTS

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

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

REGISTRATION PROCEDURES

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

FEES

Application Fee

All students applying for admission to the University for the first time and who are pursuing a degree and did not receive their undergraduate degree from Eastern Illinois University are required to pay a \$15.00 non-refundable application fee. This applies to extension students and students in the evening school. The fee must accompany the application for admission.

Course Fees

The fees are \$9.00 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.

VII. Undergraduate Degrees

RESPONSIBILITY OF STUDENTS

The requirements for each baccalaureate degree, and the majors, minors, and other specialized curricula for the degrees, are described in the sections which follow. The student, 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's role is to assist him in making important decisions.

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.

General Requirements

	B.S.	B.A.
English 120, 130, 201.....	12	12 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 geology.) 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 units¹ 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.

¹An 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.

foreign language (Latin 122, French 132, German 135, Russian 142, Spanish 132) or any higher numbered course in that language, or passed a proficiency examination given by the foreign language department in the first full year of 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 200 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 interdisciplinary 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

Total48 qtr. hrs.

Minor:

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

Botany

Major:

Life Science 100; Botany 101, 222, 230, 231..20 qtr. hrs.

English

Major:

English 245, 246, 247; 326 or 327	16 qtr. hrs.
Elective courses in English numbered above 220, not to include English 322, 340, 459.....	32
Total	48 qtr. hrs.

Minor:

English 245, 246, 247; 326 or 327; two other courses in English numbered above 220; not to include English 322, 340, 459.....	24 qtr. hrs.
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Foreign Language

Major:

Forty-eight quarter hours in a language, includ- ing twelve quarter hours in courses numbered 400 or above	48 qtr. hrs.
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Minor:

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

Major:

	<i>Credit Hours</i>
From Geology 140, Geography 141, 142	4 or 8 qtr. hrs.
Geography 150	4
Geography 151 or 302; one additional course in regional geography	8
Geography 360 or 361 or 362	4
Geography 380, 490	8
Electives in Geography approved by the head of the department, to include at least 8 hours in courses numbered 300 or above	20 or 16
Total	48 qtr. hrs.

Minor:

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

Major:

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

Mathematics

Major:

Mathematics 134, 235, 236, 343, 344, 345 . . .	24 qtr. hrs.
Electives chosen from Mathematics 225, 327, 328, 231, 350, 351, 460, 461, 470, 471, 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.
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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. Seniors who satisfy all prerequisites may substitute courses chosen from Music 510, 511, 517, 530, 531, 532, 534, 536, 547	4
Minimum ensemble requirements	6
(A maximum of nine quarter hours may be submitted toward graduation. The music major is encouraged to participate in at least one ensemble during each quarter in resi- dence.)	
Total	66 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.
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Philosophy

Major:

Philosophy 250, 270, 301, 305, 306, and 402 plus twenty-four quarter hours in Philosophy approved by the department	48 qtr. hrs.
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Minor:

Philosophy 250, 301, and sixteen quarter hours of courses in philosophy approved by the de- partment	24 qtr. hrs.
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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:

Sociology 271, 272, 452, 461, 491; Anthro-
pology 27324 qtr. hrs.
Elective courses in sociology approved by the
head of the department..... 24
—
Total48 qtr. hrs.

Minor:

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

Speech

Major:

Theatre Arts 132, 133..... 8 qtr. hrs.
Elective courses in speech approved by the head
of the department.....40
—
Total48 qtr. hrs.

Minor:

Theater Arts 132, 133, and sixteen quarter
hours in speech courses approved by the head
of the department24 qtr. hrs.

Speech Correction

Major:

Speech Correction 254, 255, 260, 262, 263, 452,
453, 455, 456, 457, 45844 qtr. hrs.
Theater Arts 132..... 4
—
Total48 qtr. hrs.

Theatre Arts

Major:

Completion of the requirements for the minor
as listed below.....24 qtr. hrs.
Elective courses in theatre arts approved by the
head of the department.....24
—
Total48 qtr. hrs.

Marketing: Marketing 248, 249, 250, 370, 486, 487
 Secretarial: Business Education 223, 224, 225, 312, 453;
 Management 383

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 of teaching 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 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 and Literature, freshman level (English 120, 130, 201)	12 quarter hours
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 geology).

Twelve quarter hours of this requirement must be in one field. This provision does not apply to students in the School of Elementary and Junior High School Teaching where no science exemptions are allowed, and 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.)

¹An 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.
 *Methods courses may not be used in partial or total fulfillment of the humanities requirement.

A student who presents an acceptable unit in mathematics more advanced than the first two years of college preparatory mathematics may be exempt from this requirement. 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. Exemptions in mathematics are not granted to students enrolled in the school of Elementary and junior high school teaching.

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.

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 while their applications for admission to teacher education are pending.

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

in which teaching is desired. Assignments are made by the coordinator and approved by the Director. 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.

SPECIAL EDUCATION

A program is under development that will result in certification as an elementary teacher and special education teacher. Copies of the program may be secured from the Director, School of Elementary and Junior High School teaching.

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).

One subject area of 24 quarter hours and another of 12 quarter hours must be selected. Areas of Concentration consist of courses in addition to general curriculum requirements. The following combinations of Areas of Concentration are not permitted: Social Studies and Geography; Social Studies and History. An Area I or Area II must be selected from the following: Biological Science, English, Geography, History, Mathematics, Physical Science or Social Studies.

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.
Life Science 100; Botany 101 or Zoology 101 8

courses indicated here is permitted without approval of the Dean of Student Academic Services. General curriculum requirements are hereafter referred to as GCR.

Art

- Area I: Art 244, 309, 319, 465. If Art 244 is taken as a GCR select 12 quarter hours from art courses in catalog. If Art 244 is not taken as a GCR select 8 quarter hours. Total, 24 quarter hours exclusive of Art 140.
- Area II: Art 244. If Art 244 is taken as a GCR select 12 quarter hours from the following: Art 309, 319, 465. If Art 244 is not taken as a GCR select 8 quarter hours from preceding courses. Total, 12 quarter hours exclusive of Art 140.

Art—Industrial Arts

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

- Option A. Art 244. If taken as a GCR select 12 quarter hours, but if not taken as a GCR select 8 quarter hours from Art 309, 319, 465; Ind. Arts 224 or 225 (If either course is taken as a GCR the other must be taken as part of the Concentration. If neither is taken as a GCR both courses must be taken as part of the Concentration). Select 4-8 quarter hours from Ind. Arts 101, 111, 121, 452. Total, 24 quarter hours.
- Option B. Art 244. If taken as a GCR select Art 309, 319, 465 plus four quarter hours are elective. If Art 244 is not taken as GCR, select Art 309, 319, 465; Ind. Arts 224 or 225, 452. Total, 24 quarter hours.
- Option C. Art 244. If taken as a GCR select 8 quarter hours from following Art courses but if not taken as a GCR select 4 quarter hours, Art 309, 319, 465; Ind. Arts 224 or 225, 452 and select 8 quarter hours from Ind. Arts 101, 111, 121. Total, 24 quarter hours.

Biological Science

- Area I: Botany 101* or Zoology 101*; Botany 218, 234, 4 quarter hour Botany elective; Zoology 338, 348 or 350. Total, 24 quarter hours.
- Area II: Botany 101* or Zoology 101*; Botany 218, Zoology 338. Total, 12 quarter hours.
- *Select course not used to satisfy GCR.

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, 327; 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.

Mathematics—Science

Students selecting the combined area of Mathematics-Science should substitute Physics 130 for Physical Science 100 to meet GCR and Chemistry 120 or 150 for Physical Science 101.

- Area I and II: Eight quarter hours from Mathematics 130, 131, 134 or 327; twelve quarter hours from Physics 131, 132; Chemistry 121 or 150; Chemistry 122 or 151 (minimum of 4 quarter hours must be selected from physics and 4 quarter hours from Chemistry); Geography 140, 300 or 301; Botany 218; Zoology 338. Total, 36 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.



REQUIRED COURSES

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

Life Science 100; Botany 101 or Zoology 101.....	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, 130, 201; 250 or 251 or 252.....	12-16
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 or Physics 130; Physical Science 101 or Chemistry 120 or Chemistry 150....	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: Art 140, 244, 309, 319, 465; select sixteen quarter hours other than 245. Total, 36 quarter hours.

Biological Science

Field I: Botany 101, 218, 230, 234; four quarter hours elective in botany; Zoology 101, 212, 336, 338, 350; eight quarter hours elected from botany or zoology. Total, 48 quarter hours.

Field II: Botany 101, 218, 234; four quarter hours elective in botany; Zoology 101, 338, 350; four quarter hours elective in zoology; four quarter hours elective in botany or zoology. Total, 36 quarter hours.

English

Field I: English 120, 130, 201; 250 or equivalent American literature course; Speech 131; English 126, 226; 246 or

Russian

A student with high school foreign language should consult Section X under Foreign Languages for special provisions of placement when continuing a language started in high school. For those without any high school foreign language, the requirements are as follows:

Field II: Russian 140, 141, 142, 250, 251, 340, 360, 361, 363. Total, 36 quarter hours.

Spanish

A student with high school foreign language should consult Section X under Foreign Languages for special provisions of placement when continuing a language started in high school. For those without any high school foreign language, the requirements are as follows:

Field I: Spanish 130, 131, 132, 230, 231, 232, 340, (321, 322, 323 or 330, 331, 332) Total, 52 quarter hours.

Field II: Spanish 130, 131; 132; 230; 231; 232; (320, 321 or 330, 331) 340. Total, 36 quarter hours.

Geography

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

Industrial Arts

Field II: Industrial Arts 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: Library Science 320; 330 or 332; 430; 450; 460; 490; Education 487, 488. Total 32 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; Theatre Arts 244, 257, 333, 357. Total 36 quarter hours.

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 both 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
Life Science 100, Zoology 101.....	8
Education 120, 121.....	2
Education 232, 324, 327, 328, 329, 445.....	20
Education 441, 442, 443.....	12
English 120, 130, 201.....	12
Geography 150.....	4
Health Education 120.....	4
History 233 or 234 or 235.....	4
History 244 or 245 or 246 or 247 or 248.....	4

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:

Life Science 100	4 qtr. hrs.
Botany 101, 222; 234 or 335	12
Zoology 101, 212, 343; 348 or 350	16
Electives: Four quarter hours in Advanced Botany (300 or 400 level)	4

Total 36 qtr. hrs.

Note: For other minors in Biological Sciences, see Botany Minor and Zoology Minor.

Botany

Major: (Standard High School Certificate)

L.S. 100; Botany 101, 222, 230, 231, 340	24 qtr. hrs.
Elective courses in botany	28

Management 346, 347.....	8
Business Education 340; 342 or 344.....	8
Elective course in business.....	4
Economics 254, 255, 256.....	12

Total, including correlative courses.....76 qtr. hrs.

Secretarial Option:

Business Education 140; Management 141, 142	12 qtr. hrs.
Business Education 210, 211, 223, 224, 225....	20
Business Education 312.....	4
Management 346, 347; Business Education 342, 344	16
Elective courses in business.....	12
Economics 254, 255, 256.....	12

Total, including correlative courses.....76 qtr. hrs.

COMPREHENSIVE MAJOR: Teaching minor in non-business field not required. (Standard High School Certificate) The student may choose one of three options: Comprehensive Secretarial, Comprehensive Basic Business, or Vocational Business Education. The program in Vocational Business Education leads to certification as a Reimbursable Vocational Business Teacher if student has appropriate work experience as required by the Illinois Board of Vocational Education and Rehabilitation.

Comprehensive Secretarial option:

Two courses from Business Education 111, 112, 210, 211	8 qtr. hrs.
Three courses from Business Education 124, 125, 223, 224, 225	12
Management 141, 142.....	8
Accounting 230, 231, 232	12
One course from Marketing 247, 248, 250....	4
One course from Management 251, 340, Busi- ness Education 453	4
Management 230, 346, 347.....	12
Business Education 312	4
Two courses from Business Education 340, 342, 344	8
Two elective courses in business.....	8
Economics 254, 255, 256	12

Total, including correlative courses.....92 qtr. hrs.

Comprehensive Basic Business option:

Two courses from Business Education 111, 112, 210, 211	8 qtr. hrs.
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Elective courses in chemistry and/or physics....12

Total36 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 numbered above
220, except English 322 and 459.....20

History 343, 344.....8

Foreign language (a single language).....24

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

Minor:

English 245, 246, 247; 326 or 327; two other
English courses numbered above 201, except
English 322, 340, and 459; Speech 131.....28 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, 350, 351, 352, 410, 411,
412, 456, 457, 458, 510, 511, 512.....36

History 233 or 235; 246 or 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 169.

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

German

Major: (Standard High School Certificate)

German 340, 361; 354.....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 169.

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 (or 302); 141 or 142; 340; thirty-six quarter hours in geography courses approved by the head of the Depart- ment of Geography.....	52 qtr. hrs.
Economics 254, 255.....	8
Total	60 qtr. hrs.

Minor:

Geography 141, 142, 150, 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 Life Science 100, or Zoology 101, 225; and course(s) chosen from Home Economics 303, Botany 235, 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

from electricity, graphics, graphic arts, metals
and woods32 qtr. hrs.

Total64 qtr. hrs.

Minor:

Industrial Arts 101, 141, 205, and 340....16 qtr. hrs.

Basic subject area courses to be selected from
electricity, graphic arts, industrial crafts,
metals, and woods12

Industrial arts electives 8

Total36 qtr. hrs.

Journalism

Minor:

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

An advanced course in English composition.. 4

Total28 qtr. hrs.

Latin American Studies

Major: (An interdisciplinary major. Standard High School Certificate)

Spanish36 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

Total24 or 32 qtr. hrs.

Manual Arts Therapy

Major: (Standard Special Certificate)

Industrial Arts 121, 122, 106, 116, 101, 202, 111,

212, 205, 321, 340, 310, 323, 306, 307, 452..60 qtr. hrs.

Instrumental Ensemble 6 minimum

Total 92 qtr. hrs.

Vocal Music Option

A. Vocal Principal: Music (126, 127, 128)*; 130, 131, 132, 146, 151, 200, 204; (226, 227, 228)*; 230, 231, 232, 240, 243, 244, 245, 339, 342, 343; 347 or 455; 351, 352, 353, 380, 447 75 qtr. hrs.
 Applied Voice 11 minimum
 Vocal Ensemble 6 minimum

Total 92 qtr. hrs.

B. Keyboard Principal: Music 130, 131, 132, 136, 137, 138, 146, 151, 200, 204, 230, 231, 232, 236, 237, 238, 240, 246, 247, 248, 339; 347 or 455; 351, 352, 353, 362, 380, 447 75 qtr. hrs.
 Applied Keyboard 11 minimum
 Vocal Ensemble 6 minimum†

Total 92 qtr. hrs.

C. Composition Principal: Music 126, 127, 128, 130, 131, 132, 136, 137, 138, 151; two courses from 146, 200, 204; 226, 227, 228, 230, 231, 232, 240, 236, 237, 238, 243, 244, 245, 339, 380; 347 or 455; 351, 352, 353, 447 75 qtr. hrs.
 Applied Composition 11 minimum
 Vocal Ensemble 6 minimum†

Total 92 qtr. hrs.

General Music Option:

Music 130, 131, 132, 151, 230, 231, 232, 240, 338, 339, 351, 352, 353; 380 or 381; 447 56 qtr. hrs.
 Applied Music (Instrumental, Vocal, Keyboard, or Composition Principal) 8
 Piano — Keyboard Principal: Music 246, 247, 248; Vocal, Instrumental, and Composition Principal: Music 126, 127, 128 or Music 226, 227,

*When keyboard skills are advanced, singers may be assigned to private instruction—6 q. hrs., minimum requirement.

†Only two courses required.

†Participating in an ensemble organization is encouraged during each year of residence.

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 additional 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 120 or 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	12 qtr. hrs.
Physics 236, 239, 240, 341, 342, 466, 467....	28
Two courses from Physics 250, 461, 462, 465, 468, 469	8
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:

Two of the following options:

- a. Economics 254, 255, 256
 - b. Political Science 110, 111; 100 or 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, 470, 490 12

Elective: Any speech course other than 131 . . 4

Total 52 qtr. hrs.

With the consent of the Head of the Department, Speech 400 may be substituted for any of the above requirements.

All speech majors must include three of the following one hour courses for nominal credit: Speech 101, 102, 103, 301, 302, 303. Permission to take these courses must be obtained from the Head of the Department of Speech.

Minor:**General Speech Option:**

- Speech 131, 232, 340, and one speech elective . 16 qtr. hrs.
- Theater Arts 132, 133, 445 12
- English 120 and 130 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, 130 are included for certification . 8

Total 36 qtr. hrs.

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 of teaching 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, 312, 340, 360, 401.....	40
Psychology 231, 351.....	8
Sociology 271, 473.....	8
Zoology 101, 348, 349.....	12

Home Economics in Business

Anthropology 273	4 qtr. hrs.
Business 141, 247, 486.....	12
Chemistry 153, 154, 155.....	12
Economics 254	4
Home Economics 102, 300, 320, 370, 380, 390....	24
Psychology 231	4
Sociology 271, 473.....	8
Option I or Option II.....	38-48

Option I—Foods and Nutrition

Botany 234	4 qtr. hrs.
Business 142, 250	8

Physics 130, 131, 132.....	12 qtr. hrs.
Psychology 353	4 qtr. hrs.
Sociology 381	4 qtr. hrs.
Option I, II, or III.....	20 to 24 qtr. hrs.

Total156 to 160 qtr. hrs.

Option I—Metal Work

Industrial Arts 307, 310, 409.....	12 qtr. hrs.
Industrial Technology 460*, 464*.....	8 qtr. hrs.

Option II—Light Building Construction

Industrial Arts 301, 302, 323, 321.....	14 qtr. hrs.
Industrial Technology 205, 402, 401, 424....	10 qtr. hrs.

Option III—Electronics

Physics 250	4 qtr. hrs.
Industrial Arts 117 or 216.....	4 qtr. hrs.
Industrial Technology 316, 416, 417.....	12 qtr. hrs.

*Course in Preparation.

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, 335	4 qtr. hrs.
Chemistry 120, 121, 122; or 150, 151, 152....	12
Chemistry 234, 243, 244.....	12
Mathematics: Four quarter hours of Mathematics required regardless of exemptions. Eight hours are required if student has no exemptions	4 or 8
Psychology 231	4
Life Science 100; Zoology 101, 225.....	12
Zoology 327 and one elective course in Zoology	8
Courses to complete the general requirements for the degree, Bachelor of Science, and elective courses	84+(6)

Total, plus 6 qtr. hrs. nominal credit in physical education144

The hospital program in medical technology is accepted in lieu of the remaining forty-eight quarter hours to complete the normal graduation requirement.

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, 243, 244

Life Science 100; Zoology 101, 212, 214, 215

Physics 130, 131, 132

Electives:

Elective credit to bring the total course work at Eastern Illinois University 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 Illinois University must have been met.

The following courses at the College of Medicine are acceptable to complete the major and minor at Eastern Illinois University:

1. Biochemistry 301, 302, 303 (66 hours in lecture and 88 hours in laboratory—9 quarter hours)
2. Physiology 301, 302, 303 (90 hours in lecture and 49 hours in laboratory—15 quarter hours)

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. See the Political Science Department for further information.

WOOD SCIENCE AND TECHNOLOGY

This cooperative degree program is administered by the Department of Botany at Eastern Illinois University (the first two-years phase) and the College of Agriculture at the University of Illinois. The degree B.S. in Forestry is awarded by the University of Illinois upon successful completion of their four year program designed to prepare students to work with wood as a raw material. Wood technologists are concerned with new and better ways to use wood, with seasoning, manufacturing, purchase, sale, preservative and fire-retardant treatment, gluing, and finishing of wood. Upon completion of the two-year phase at Eastern Illinois University the student transfers to the University of Illinois by registering (in May of his second year) in the Forestry Summer Camp, an eight-weeks program at Blackfoot, Minnesota.

English 120, 130, 201	12	qtr. hrs.
Health Education 120	4	
Speech 131	4	
Chemistry 150, 151, 152, 343 ¹	16	
Life Science 100	4	
Botany 101, 233	8	
Mathematics 130, 131, 134 ²	12	
Physics 130, 131, 132	12	
Industrial Arts 104	4	
Economics 254	4	
Humanities ³	8	
Social Science ³	8	
Physical Education (nominal credit)	(6)	

92+(6)

1. Chemistry 120, 121, 122 may be substituted for Chemistry 150, 151, 152 if the student does not have the prerequisites for Chemistry 150.
2. Qualified students may substitute Mathematics 131, 134, 235; or 134, 235, 236. See the prerequisites for these courses given with the course descriptions.
3. The humanities two-course sequence and the social science two-course sequence should be selected from a list of approved sequences which may be obtained from the adviser.

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 responsibilities.

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.

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

- 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. Typical areas of concentration are the following:

- Art
- Audio-Visual Education
- Biological Sciences
- Business Education
- Educational Administration
- Elementary Education
- English
- Foreign Languages
- Geography
- Guidance and Counseling
- History
- Home Economics
- Industrial Arts
- Mathematics
- Music
- Physical Education—Men
- Physical Education—Women
- Physical Sciences
- Social Sciences
- Speech
- Speech Correction

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

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. The following departments have been authorized to offer the Master of Arts and Master of Science degrees:

Master of Arts

English
French
Geography
History
Mathematics
Music
Political Science
Spanish
Speech

Master of Science

Botany
Chemistry
Physics
Speech Correction
Zoology

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

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 are 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.

IX. Non-Degree Programs

The curricula outlined in this section have been formulated as suggested programs which do not lead to graduation. Changes may be made by the student and his adviser without the formality of application for a waiver, except that English 120, 130, Speech 131, and service courses in physical education must be taken as indicated.

PRE-ENGINEERING

These programs are administered by the Division of Pre-Engineering Studies.

General

Students planning to enroll in pre-engineering are advised to include the following subjects in their high school programs.

Mathematics—4 or more units, including trigonometry

Science—3 or more units, including chemistry and physics

Foreign Language—2 or more units, including two units in the same language

Students deficient in any of these courses should expect their graduation from a College of Engineering to be delayed.

First Year

English 120, 130, Industrial Arts 104 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.

Electives	24
Physical Education	(3)

Note: It is recommended that the electives include history, economics, philosophy, sociology, and a modern language.

Pre-Nursing

Eastern Illinois University does not have a baccalaureate program in nursing. It is possible for students to complete one year at this institution and then transfer to the University of Illinois College of Nursing for the remaining three years. The first year program includes basic courses in chemistry, zoology, English, social studies and humanities.

Pre-Optometry

Schools of optometry usually require two years of pre-professional work.

First Year

English 120, 130	8 qtr. hrs.
Speech 131	4
Chemistry 120, 121, 122; or 150, 151, 152	12
Life Science 100; Zoology 101, 225	12
Mathematics 130, 131, 134	12
Physical Education	(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, 130	8
Mathematics 130, 131, 134	12
Electives to be selected in terms of the requirements of the College of Pharmacy selected by student	16

Pre-Veterinary Medicine

This two-year program is designed to prepare students for admission to schools of veterinary medicine. Four years of professional study, preceded by two years of college study, are required in typical schools.

First Year

Chemistry 120, 121, 122; or 150, 151, 152 ..	12 qtr. hrs.
English 120, 130, 201	12

First Year

English 120, 130, Speech 131	12	qtr. hrs.
Mathematics 130, 131	8	
Botany 120, 121, 222	12	
Chemistry 120, 121, 122; or 150, 151, 152	12	
Geology 140	4	
Physical Education	(3)	

Second Year

Physics 130, 131	8	qtr. hrs.
Geography 141, 142, 380, 387, 360	20	
Industrial Arts 104	4	
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, 130, Speech 131	12	qtr. hrs.
Chemistry 120, 121, 122; or 150, 151, 152	12	
Mathematics 130, 131, 134	12	
Geology 140, 243; Geography 141	12	
Physical Education	(3)	

Second Year

Physics 130, 131, 132	12	qtr. hrs.
Mathematics 235, 236, 345	12	
Industrial Arts 231	4	
Geology 244, 343, 345	12	
Electives	8	
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, 130, Speech 131	12	qtr. hrs.
Laboratory Science (year)	12	
Journalism 210, 211, 212	12	
Electives	12	
Physical Education	(3)	

X. Description of Courses

NUMBERING OF COURSES

Generally, courses numbered 100-199 are freshman courses; 200-299, sophomore courses; 300-399, junior courses; 400-499, senior courses; and 500-599, graduate courses. However, if prerequisites are met students may enroll according to the following schedule.

<i>CLASS</i>	<i>COURSES NUMBERED</i>				
Freshman	100	200	a	a	
Sophomore	100	200	300	a	
Junior	100	200	300	400	
Senior	100b	200	300	400	500-549c
Graduate				450-499d	500-690

- Courses numbered 300-499 in foreign languages, mathematics, and chemistry may be taken by underclassmen who have prerequisites and permission of the department head.
- Reduction of 1 credit hour for each course except for one-quarter-hour courses and courses in foreign languages.
- With 3.0 GPA and permission of instructor and Dean of Graduate School.
- Certain courses only.

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.

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 or consent of the instructor.

367. Introduction to Prehistoric Archaeology. Fall. (4 q. hrs.)

A systematic introduction to the history, method, and theory of archaeology which investigates the aims of archaeology and the interpretation and analysis of prehistoric cultures.

Prerequisite: Anthropology 273 or consent of the instructor.

369. North American Indians. Winter. (4 q. hrs.)

A survey of the native population of North America stressing the importance of cultural adaptation to environment.

Prerequisites: Anthropology 273, and Sociology 271, or consent of the instructor.

COURSES OPEN TO JUNIORS, SENIORS, AND GRADUATE STUDENTS**454. Theories of Culture and Social Change.** Spring. (4 q. hrs.)

An investigation of anthropological theories and models which have contributed to an understanding of culture and social change throughout the world. Particular emphasis is placed upon theories of urbanization and acculturation.

Prerequisites: Anthropology 273, 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.)

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.

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.

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 and 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. For art major and minors only.

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.

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.

Prerequisite: Art 260. 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.

Prerequisite: Art 261. For art majors and minors only.

270. Introduction to Jewelry I. Every quarter. (4 q. hrs.)

Decorative and constructive processes in the use of silver or other metals.

Prerequisite: Art 110 or 111 or 140.

280. Introduction to Weaving. Every quarter. (4 q. hrs.)

Procedures involved in dressing the loom. Production of various weaves on the loom and experimentation with color, textures, and materials.

Prerequisite: Art 110 or 140.

327. Ceramics IV. Spring. (4 q. hrs.)

Individual selection of ceramic problems including ceramic sculpture, porcelain, whitewares.

Prerequisite: Art 325.

334. General Crafts. Every Quarter. (4 q. hrs.)

General course in crafts in which students may elect problems from block printing, mosaics, and glass.

Prerequisite: Art 110 or 140. Not open to students whose major is in art.

340. The Teaching of Art. Fall and Spring. (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 and junior standing.

341. Art Education Laboratory. Fall and Winter. (4 q. hrs.)

Studio experiences in techniques and processes and their adaptation to various stages of development, elementary through secondary.

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. Fall. (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. (Omitted 1968-69.) (4 q. hrs.)

Advanced study of the relief and planographic methods of print making.

360. Understanding Art. Every quarter. (4 q. hrs.)

Prerequisite: Art 356.

Aesthetic problems and their solutions in various fields of art as related to man and his culture.

Not open to students whose major is in art. This course is recommended for meeting the humanities requirement.

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. This course is recommended for meeting the humanities requirement.

380. Weaving II. Every quarter. (4 q. hrs.)

Study of the theory of weaving and continued work on multi-harness looms to perfect weaving skills. Designing and experimenting with various intricate weaves and materials of the weaver.

Prerequisite: Art 280.

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.

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.

Prerequisite: Art 310, 311, 312.

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.

COURSES OPEN TO JUNIORS, SENIORS, AND GRADUATE STUDENTS**462. Art in America.** (Omitted 1968-69.) (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.

465. The Visual Arts in the Elementary and Junior High School.

Winter and Spring. (4 q. hrs.)

Our cultural heritage in visual arts for teachers; approaches to fostering appreciation of this heritage.

Prerequisite: Art 244.

Not open to students whose major is in art.

570. **Painting Problems II.** Winter. (4 q. hrs.)
Independent study in painting.
Prerequisite: Art 520.
571. **Painting Problems III.** Spring. (4 q. hrs.)
Emphasis is placed upon the construction and development of form.
Prerequisite: Art 520 and 570.
580. **Research in Art Education.** Winter. (4 q. hrs.)
Familiarization with research in art education, the study of methods and structure of research, and the initiation of research projects.
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 and junior college.
595. **Thesis.** (4 q. hrs.)

BOTANY

Professor: Thut

Associate Professors: Arzeni, Husa, Whiteside

Assistant Professors: Balbach, Crofutt, Ebinger, Gray, Hanson, Lackey, R. L. Smith, T. M. Weidner

Instructor: Edna M. Kniskern

UNDERGRADUATE COURSES

Classes in all courses except Botany 232, 340, 350 meet in two single sessions and two double sessions each week.

101. **General Botany.** Every quarter. (4 q. hrs.)
A course designed to introduce the students to the anatomy, physiology, and morphology of the seed plant and to the diversification of plants in the plant kingdom.
Prerequisite: Life Science 100.
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: Botany 101.
222. (122) **General Local Flora.** Spring and Summer. (4 q. hrs.)
Plant distribution; identification of trees, shrubs and herbs and the lesser plants by appropriate keys; knowing and appreciating common plants.
Prerequisite: Botany 101.

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: Life Science 100 and two additional courses in laboratory science; chemistry recommended.

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: Botany 456 recommended.

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 233 and one year of chemistry.

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 or Spring. (4 q. hrs.)

A study of the common flowering plant families 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. Fall and 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 233 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.)

560. Cytogenetics. Winter. (4 q. hrs.)

The study of cells with particular emphasis on the structure, function and chemistry of chromosomes; the evolution and variation of karyotypes; and the structure and function of other cell organelles.

Prerequisite: Botany 350.

561. Ecological Methods. Spring. (4 q. hrs.)

Vegetation and soil analyses, microenvironmental measurements and physiological procedures used in ecological studies.

Prerequisite: Botany 461 or equivalent.

564. Radiation Biology. Winter. (4 q. hrs.)

A course dealing with the application of radioisotope methodology to the biological sciences. Work includes instruction in experimental techniques, instrumentation, and radiation safety.

Prerequisite: Botany 454 or the equivalent; physics recommended.

569. Advanced Taxonomy. Fall and Summer. (4 q. hrs.)

The study of recent developments in plant taxonomy with particular emphasis on paleobotany, biogeography, cytogenetics, chemical, and ecological data to determine the evolutionary development of species.

Prerequisite: Botany 459 or consent of instructor.

575, 576, 577, 578. 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.

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.

CHEMISTRY

Professors: W. N. Baker, Cunningham, Foreman, R. J. Smith, Steele (Head)

Associate Professors: Hamerski, Karraker

Assistant Professors: Ellis, C. D. Foote, A. J. Hoffman, Jordan

Instructors: Henderson, M. Shepherd, N. D. Smith

Faculty Assistant: Tucker

UNDERGRADUATE COURSES

Chemistry 120, 121, and 122 is a year's sequence planned as a general cultural course. This sequence also serves as a foundation

redox reactions; introduction to colorimetry; extensive treatment of problems illustrating each topic.

Prerequisite: Chemistry 122 or 152; one course in college mathematics.

243, 244, 245 (343, 344, 345). Organic Chemistry. (Chemistry 243, 244, Every quarter; Chemistry 245, 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. Qualitative organic analysis is introduced in the laboratory portion of Chemistry 245.

Prerequisite: Chemistry 122 or 152 or simultaneous registration therein. To be taken in sequence.

330. Quantitative Analysis. 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, 243.

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.

346 (356). Biochemistry. Spring. (4 q. hrs.)

A survey of the chemical principles involved in the study of mammalian organisms. The major topics are: the chemistry and metabolism of carbohydrates, lipids, proteins, and nucleic acids; introduction to the actions of enzymes, vitamins, hormones, coenzymes; principles of metabolic control.

Prerequisite: Chemistry 243 or 155 (Chemistry 234 is recommended).

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.

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 1968-69.) (2 q. hrs.)

Reports and discussion of topics selected from recent developments in chemistry.

Prerequisite: Chemistry 330 and 244, and permission of the head of the department.

501. History of Chemistry. (Omitted 1968-69.) (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.

512. Theoretical Inorganic Chemistry I. (4 q. hrs.) (Omitted 1968-69.)

A study of topics selected to provide a firm background in the theory of inorganic chemistry. Included are periodic trends, modern theories of chemical bonding, structure and bonding in ionic crystals, thermodynamics of inorganic chemistry, and ligand-field theory of coordination compounds.

Prerequisite: Chemistry 461, 493.

513. Theoretical Inorganic Chemistry II. (4 q. hrs.) (Omitted 1968-69.)

Additional topics of inorganic chemical phenomena not covered in Chemistry 512. Study includes such subjects as acid-base theories, non-aqueous solvents, oxidation-reduction phenomena, and inorganic reaction mechanisms.

Prerequisite: Chemistry 461, 493.

520. Chemical Thermodynamics. (4 q. hrs.) (Omitted 1968-69.)

A study of the laws governing the passage of energy from one chemical system to another, the transformation of energy from one form to another, and the utilization of energy for useful work; together with the application of these laws to the change of matter from one molecular species to another.

Prerequisite: Chemistry 493.

523. Quantum Chemistry. (4 q. hrs.) (Winter.)

A study of the structure of atoms and molecules as explained by quantum theory. Applications to questions of chemical interest are emphasized.

Prerequisite: Chemistry 493.

255. Principles of Economics (continued.)

Every quarter. (4 q. 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.** Fall and Summer. (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. (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.

*Prerequisite: Economics 254, 255, 256 or consent of the instructor.***358. American Economic Development.** Winter. (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.

proaches to conflict resolutions, and evaluation of proposals for improvement.

Prerequisite: Economics 357 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.

490. Latin American Economic Development. Fall. (4 q. hrs.)

A survey of the economic conditions and problems in Latin America, both as a whole, and in specific countries.

Prerequisites: Economics 254, 255, 256 or consent of the instructor.

495. Individual Research in Economics. Every quarter. (4 q. hrs.)

Provides opportunity for the student to do independent study in the field of economics. Designed for the individual needs of the student at either the undergraduate or graduate level.

Prerequisite: Economics 254, 255, 256.

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.

ENGLISH

Professors: Blair, E. L. Brooks, Ekeberg, Kline, Palmer (Acting Head), Rommel, Waffle, Wharton, R. F. White (Head, on sabbatical leave)

Associate Professors: Kelleher, Mather, Steinmetz, Switzer, Tycer, Walker, Wittrock

rectness," 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" in English.

Prerequisite: English 226.

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.

Prerequisite: English 227.

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.

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. (Omitted 1968-69.) (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.

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 and junior standing.

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 201.

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. Winter. (4 q. hrs.)

A study in depth of various major American novelists, such as Hawthorne, Melville, Twain, James, Faulkner, Hemingway. Only

COURSES OPEN TO JUNIORS, SENIORS, AND GRADUATE STUDENTS

453. **Sixteenth and Seventeenth Century Prose.** Winter.
(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.** (Omitted 1968-69).
(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 1968-69).
(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.** Fall.
(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.** (Omitted 1968-69).
(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.

526. Studies in Restoration and Eighteenth Century Drama. (Omitted 1968-69.) (4 q. hrs.)

Focus upon the works of major British dramatists from Dryden to Sheridan.

535. English Fiction, from Jane Austen to Thomas Hardy. Spring. (4 q. hrs.)

This course surveys the historical development of the novel in England from Jane Austen to Thomas Hardy, but the emphasis will be on one or two different novelists each quarter.

540. Studies in American Poetry. (Omitted 1968-69.) (4 q. hrs.)

A course devoted to the study of some movement or genre in American poetry; for example, nineteenth century poetic theory and practice, trends in American poetry from the Puritans to the present, lyric poetry in the American tradition, or narrative poetry in America.

541. Studies in American Prose. Winter. (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.

545. Descriptive Linguistics. Winter. (4 q. hrs.)

A survey of the activity of descriptive linguistics 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 1968-69.) (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.

590. Colonial American Literature. (Omitted 1968-69.)
(4 q. hrs.)

A course devoted to pre-revolutionary American literature, with special attention to the writings of the seventeenth century New England Puritans.

592. Studies in Twentieth Century Fiction. Winter. (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.

594. Studies in Twentieth Century Poetry. Spring. (4 q. hrs.)

Focus on key figures, e.g., T. S. Eliot, William Butler Yeats, E. A. Robinson, Robert Frost, together with individual critical analyses of minor poets.

595. Thesis. (4 q. hrs.)

FOREIGN LANGUAGES

Professors: Cobb, Michael, Miess (Head), Morfit

Associate Professors: Jochmans, P. F. Kirby, Ortiz-Muniz Ovcharenko, Penz

Assistant Professors: Ceide-Echevarria, Crouse, McKee, VanDeventer, Vogel, Waggoner

Faculty Assistant: Malila

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	II	III
Number of high school units in the language.	Course in (or beyond) which the student may enroll for college credit.	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

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.

340. Methods of Teaching French. Winter. (4 q. hrs.)

Prerequisite: Admission to teacher education and junior standing.

350. Survey of French Literature from the Middle Ages to the 17th Century. Fall. (4 q. hrs.)

Prerequisite: Two years of college French or permission of the department.

351. Survey of French Literature of the 17th Century. Winter. (4 q. hrs.)

Prerequisite: Two years of college French or permission of the department.

352. Survey of French Literature of the 18th and 19th Centuries. Spring. (4 q. hrs.)

Prerequisite: Two years of college French or permission of the department.

410. Introduction to the French Novel I. (Omitted 1968-69.) (4 q. hrs.)

A study of selected novels of Mme. de LaFayette, Prévost, Constant, George Sand.

Prerequisite: French 350, 351, 352 or permission of the department.

411. Introduction to the French Novel II. (Omitted 1968-69.) (4 q. hrs.)

A study of selected novels of Victor Hugo, Balzac, Stendhal, Flaubert.

Prerequisite: French 350, 351, 352 or permission of the department.

565. **French Literature of the Renaissance.** (Omitted 1968-69.)
(4 q. hrs.)
Rabelais, DuBellay and the doctrine of the Pleiade, Ronsard and Montaigne.
567. **French Classicism I.** (Omitted 1968-69.) (4 q. hrs.)
Representative authors of the first half of the 17th Century.
568. **French Classicism II.** Summer 1968. (4 q. hrs.)
Representative authors of the second half of the 17th Century.
575. **The Age of Enlightenment.** (Omitted 1968-69.) (4 q. hrs.)
Chosen authors of the 18th Century.
578. **French Realism and Naturalism.** (Omitted 1968-69.)
(4 q. hrs.)
Representative works of the French realists and naturalists of the 19th Century.
580. **Contemporary French Literature.** (Omitted 1968-69.)
(4 q. hrs.)
Contemporary authors such as Sartre, Anouilh, Beckett, and Robbe-Grillet.
585. **Seminar in French Literature.** (Omitted 1968-69.)
(4 q. hrs.)
Work and discussion of various topics chosen according to students' needs.
595. **Thesis.** (4 q. hrs.)

GERMAN

UNDERGRADUATE COURSES

- 130, 131, 132. **Elementary German.** Fall, Winter and Spring.
(4 q. hrs. for each course.)
Emphasis on conversation, grammar, reading; incorporation of cultural, geographical, and historical information; extensive use of audio-visual aids.
No credit for graduation for German 130 or 131 without 132.
- 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.

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 1968-69.) (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 1968-69.) (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 1968-69.) (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 German literature.

GRADUATE COURSES

(Courses numbered 500-549 inclusive may be taken by a senior whose grade point average is 3.0 or higher, with permission of the instructor and the Dean of the Graduate School. Courses numbered 550 and above are open only to graduate students.)

510. History of German Civilization. Summer 1968. (4 q. hrs.)
Analysis of selected topics from German culture and civilization.**511. Modern German Drama.** Winter. (4 q. hrs.)

A study of the drama of the Nineteenth and Twentieth Centuries and its relation to World Drama, especially Greek.

512. Goethe. Summer, 1969. (4 q. hrs.)**595. Thesis.** (4 q. hrs.)**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 Latin 120 or 121 without 122.

340. Methods of Teaching Latin. Winter. (4 q. hrs.)

Prerequisite: Admission to teacher education and junior standing.

433. Ovid, Selections from Tristia, 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. 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 1968-69.) (4 q. hrs.)**451. Selections from Catullus and Martial.**
(Omitted 1968-69.) (4 q. hrs.)**452. Roman Comedy. The Menaechmi and Captives of Plautus; The Phormio and Andria of Terence.** (Omitted 1968-69.) (4 q. hrs.)**GRADUATE COURSES**

(Courses numbered 500-549 inclusive may be taken by a senior whose grade point average is 3.0 or higher, with permission of the instructor and the Dean of the Graduate School. Courses numbered 550 and above are open only to graduate students.)

510. Suetonius: The Life of Augustus Caesar.
(Omitted 1968-69.) (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.
(Omitted 1968-69.) (4 q. hrs.)

Examples of Roman satire in the first century A.D.; introduction to the picaresque novel.

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.)

Principles of grammar; phonetics; pronunciation and drill in rhythm and intonation; readings of simple Spanish text; conversation.

No credit for graduation for Spanish 130 or 131 without 132.

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. Conversation in Spanish; films 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. Introduction to Spanish Literature, 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. Introduction to Spanish Literature, 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. Introduction to Spanish Literature, 18th to 20 Centuries.

Spring (4 q. hrs.)

Prerequisite: Two years of college Spanish or permission of the department.

330. Introduction to Spanish American Civilization.

Spring. (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.

458. **Modern Novel of Spanish America.** Spring. (4 q. hrs.)

GRADUATE COURSES

(Courses numbered 500-549 inclusive may be taken by a senior whose grade point average is 3.0 or higher, with permission of the instructor and the Dean of the Graduate School. Courses numbered 550 and above are open only to graduate students.)

510. **Poetry of Spain.** Summer 1969. (4 q. hrs.)

Readings and analysis of Spanish poetry from 15th century to present.

511. **Selected Modern Drama of Spain.** (Omitted 1968-69.)
(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. **Modern Novels of Spain.** (Omitted 1968-69.) (4 q. hrs.)

Reading of complete novels of Spain from latter part of the 19th century to present.

530. **Spanish Bibliography.** Fall (4 q. hrs.)

Methods of location and acquisition of material available for research projects in the Hispanic field.

555. **History of the Spanish Language.** (Omitted 1968-69.)
(4 q. hrs.)

Study of the development of the language from Vulgar Latin to Modern Spanish.

560. **Classroom and Laboratory Techniques for College Spanish.**
(Omitted 1968-69.) (4 q. hrs.)

A course particularly relevant to students preparing to teach at the junior college or college level.

561. **Cervantes.** Winter. (4 q. hrs.)

Study of the novel *Don Quijote de la Mancha* by Miguel de Cervantes Saavedra.

562. **Theater of the Golden Age.** Summer 1968. (4 q. hrs.)

Study of the creation of Spanish National theater in the Golden Age and of selected works of the most prominent dramatists of the period.

564. **Generation of 1898.** (Omitted 1968-69.) (4 q. hrs.)

Study of representative writers of the Generation of 1898.

570. **Spanish American Drama.** (Omitted 1968-69.) (4 q. hrs.)

Study of Spanish American dramatic literature from its origin to the present.

FRENCH

(See Foreign Languages)

GEOGRAPHY

Professors: Price (Head), M. J. Read

Associate Professors: Amos, McDonald, E. L. Martin

Assistant Professors: Ford, Mausel

Instructor: Barry

UNDERGRADUATE COURSES

Classes in the following courses have two lecture periods and two laboratory periods a week: 141, 142, 242, 380, 381.

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.

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, Winter, and Spring. (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 1968-69.) (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.

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. Winter. (4 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 1968-69.) (4 q. hrs.)

An advanced study which emphasizes the United States' landforms, resources, cities, rivers, transportation routes and economic areas which are treated in their regional settings.

486. Geography of Soils. Fall. (4 q. hrs.)

An advanced course with emphasis on interrelationships of soil with other features of the physical and cultural environment. Special emphasis given to United States soils. Introduction to selected soils research in Illinois. Short field trips with independent work.

Prerequisite: Geography 286 or permission of instructor.

487. Regional Problems in Conservation. (Omitted 1968-69.)
(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. Special Problems. Every quarter. (1-4 q. hrs.)

Provides opportunity for the student to do independent study. Designed for the individual needs of the student at either the graduate or undergraduate 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. Philosophy and Literature of Geography. Spring. (4 q. hrs.)

Acquaints students in geography with the materials available for study and research in the field. Basic philosophies in geography analyzed.

511. Techniques in Geographic Research. Winter. (4 q. hrs.)

An introduction to the application of selected techniques valuable in geographic research. Particular emphasis is accorded to statistical methods, bibliographic research, and interview methods.

Prerequisite: Permission of the instructor.

513. Landform Regions of the United States. (Omitted 1968-69.)
(4 q. hrs.)

An areal approach to the study of landform regions of the conterminous states. Various systems of landform classification evaluated.

Open only to seniors and graduate students.

530. Advanced Historical Geography. (Omitted 1968-69.)
(4 q. hrs.)

Selected studies of changes in the geographical bases of man's use of the land from pre-Columbian times to the present in North America will be the core of this course.

Open only to graduate students and seniors who have taken Geography 470, or have the permission of the instructor.

570. Seminar in Population and Settlement. Spring. (4 q. hrs.)

Analysis of the ways in which man and his culture have come to be variously distributed over the surface of the earth.

571. Seminar in Economic Geography. (Omitted 1968-69.)
(4 q. hrs.)

A course devoted to selected topics in economic geography.

574. Seminar in Area Planning. Winter. (4 q. hrs.)

The study of geographic factors as applied to urban, community, and regional planning. Special emphasis on local planning problems.

Prerequisite: Permission of instructor.

590. Seminar in Educational Geography. (Offered on demand.)
(4 q. hrs.)

The place of geography among the disciplines at all levels of instruction from elementary school through junior college. A written report of significant research on some phase of educational geography.

595. Thesis. (4 q. hrs.)

GEOLOGY

(Taught in the Department of Geography)

140. Physical Geology. 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. (Two one-hour classes and two two-hour laboratory classes per week.)

243. Historical Geology. Winter. (4 q. hrs.)

Origin of the Earth and evolution of its crust; relations among rock units as evidence of geologic history; fossils as documents of evolution, chronology and environment; radiometric age measurements. Field trip. (Two one-hour classes and two two-hour laboratory classes per week.)

Prerequisite: Geology 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: Geology 140, Chemistry 122 or 152.

343. Structural Geology. Winter. (4 q. hrs.)

Forces involved in the deformation of rocks with emphasis on the recognition, interpretation, and illustration of the resultant geo-

Assistant Professors: Buenker, Elbert, Hennings, Horak, Keiser, Koch, Lasky, Maurer, McElligott, F. A. Miller, Sterling, N. A. Thorburn

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.

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.

360. The Early National Period 1787-1812. Winter. (4 q. hrs.)

A detailed study of the constitutional convention; the formative years of the federal government; the conflict between Hamiltonian and Jeffersonian philosophies; the formation of political parties and American neutral rights.

Prerequisite: History 233, 234.

361. The Early National Period 1812-1840. Fall. (4 q. hrs.)

A detailed study of the war of 1812; the era of good feelings; the rise of neo-federalism; the evolution of modern political parties; the compromise of 1820; the age of Jackson.

Prerequisite: History 233, 234.

370. History of Illinois. Fall. (4 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.
Winter. (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. Spring. (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. Winter. (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.

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 1968-69.) (4 q. hrs.)

English backgrounds; the colonial governments; the Declaration of Independence; the Articles of Confederation; the early state constitutions; 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 1968-69.) (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.

474. Diplomatic History of the United States, 1776-1898. Fall. (4 q. hrs.)

The origins of American foreign policy; the American Revolution; the Napoleonic Wars; the expansion movements, the Civil War; the awakening of Imperialism.

agrarian); an analysis of the types of labor performed (commercial, agricultural, extractive, industrial) and their effects on the worker; and an explanation of the relationship of the major economic, social, political and intellectual institutions and movements to the American laborer.

Prerequisite: History 234 and 235 or consent of instructor.

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.

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.

499. Social and Intellectual History of the United States in the Twentieth Century. Spring. (4 q. hrs.)

The development of ideas and way of life in the United States during the twentieth century with emphasis on the changes in American life and thought brought about by the United States participation in two world wars.

Prerequisite: History 235.

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.)

535. Problems in the Emergence of Modern America, 1877-1900. Spring. (4 q. hrs.)

An intensive study by the student into the major problems created in this period of industrialization, urbanization, and immigra-

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. Fall. (4 q. hrs.)

Research in topics dealing with colonial American history.

566. Seminar in Civil War and Reconstruction. Winter.

(4 q. hrs.)

Intensive study in topics dealing with Civil War and Reconstruction.

567. Seminar in Social and Intellectual History. Spring.

(4 q. hrs.)

Research in topics dealing with social and intellectual history of the United States.

568. Seminar in Eighteenth Century Europe. Winter. (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.

572. Russian Foreign Policy, 1814-1960. Fall. (4 q. hrs.)

Study in Russian foreign relations beginning with Congress of Vienna. Special attention given to the Congresses of Paris and Berlin, Russian expansion into the Balkans, Russia's role in both World Wars; Soviet Policy of international Communism and co-existence.

Prerequisites: 247, 248, or consent of the instructor.

574. Seminar in the American West. (Omitted 1968-69.)

(4 q. hrs.)

An intensive study of western topics with emphasis on a seminar paper.

Prerequisite: History 466 or 467 or consent of the instructor.

tions, or students interested in such positions. Topics include staff recruitment, staff-faculty relationships, production problems, and editorial judgments.

LATIN

(See Foreign Languages)

LIBRARY SCIENCE

Professor: Szerenyi (Head)

Associate Professor: Pollard

Assistant Professor: Kim, Lawson

Instructor: Galbreath

(The Library Science department offers a sequence of basic undergraduate courses for the preparation of librarians. A minor consists of twenty-four quarter hours, including 330 or 332. The addition of Education 487 and 488 is necessary for certification as an Instructional Materials Coordinator. Courses are open to juniors and seniors only. Those intending to take a minor in the field should work out their programs with the instructors.)

UNDERGRADUATE COURSES

320. The School Library Materials Center. Fall and Winter.
(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, Winter, and Spring.
(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 Winter. (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 and Spring.
(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.

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. Numerals and Numbers I. Fall, Winter, Spring. (3 q. hrs.)

Concepts of numeration and number systems developed using physical as well as abstract models. Sets, mathematical systems, natural numbers, integers, and modular arithmetic. *The maximum total credit from Mathematics 122, 123, 222, which may be counted toward meeting graduation requirements is six quarter hours.*

Prerequisite: Enrollment in this course is restricted to students in the curriculum for elementary teachers or the curriculum for junior high school teachers who do not meet the prerequisites for Mathematics 222.

123. Numerals and Numbers II. Fall, Winter, Spring (3 q. hrs.)

A continuation of Mathematics 122. Mathematical systems; rational and real numbers; complex numbers. *Not open to students who have met the prerequisites for Mathematics 222.*

Prerequisite: Mathematics 122. Enrollment in this course is restricted to students in the curriculum for elementary teachers or the curriculum for junior high school teachers who do not meet the prerequisites for Mathematics 222.

125. Elementary Mathematics. Every quarter. (4 q. hrs.)

A selection of units on the basic concepts of arithmetic, algebra, geometry.

- 232. Introduction to Computer Programming.** Fall and Summer. (1 q. hr.)

Computer programming in basic machine language and in FORTRAN.

- 234. Analytic Geometry and Calculus.** Spring. (4 q. hrs.)

Plane and solid analytic geometry. The calculus of polynomials. Applications.

Prerequisite: Mathematics 134. No credit toward graduation if student has credit for Mathematics 235 or its equivalent. Not open to students enrolled in a curriculum which includes Mathematics 235.

- 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.

- 322. Algebra and Geometry I.** Winter, Spring. (4 q. hrs.)

The organization and structure of algebraic and geometric models. Study of such systems from an advanced point of view. Not open to students in the curriculum for junior high school teachers.

Prerequisite: Enrollment in the curriculum for elementary teachers. Mathematics 222, or Mathematics 122 and 123. May not be taken concurrently.

- 327 (227). College Geometry I.** Fall, Winter, Spring. (4 q. hrs.)

A review of elementary geometry. The foundations of geometry. Euclidean geometry from a modern point of view.

Prerequisite: Mathematics 134 and 225.

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.** Fall, 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. Every Quarter. (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 1968. (4 q. hrs.)

Applications of mathematics to such topics as simple and compound interest, discount, annuities, capitalization, depreciation, and insurance.

Prerequisite: Mathematics 131.

482. Algebra and Geometry II. Spring. (4 q. hrs.)

The study of algebraic structure and informal geometry in elementary mathematics. Groups, rings, fields, probability sets, sets of points, lines, curves, the geometry of space, and methods of proof.

Prerequisite: Enrollment in the curriculum for elementary teachers. Mathematics 322, or permission of instructor.

490. History of Mathematics. Summer 1968. (4 q. hrs.)

Development of numeral systems; ancient Babylonian and Egyptian 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.

- 533, 534, 535. **Complex Variables.** (Omitted 1968-69.)
(4 q. hrs. for each course.)

The complex plane and its subsets. Fractions, powers, roots, holomorphic 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. (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 1969. (4 q. hrs.)

The techniques, methods, and materials used in teaching mathematics in grades seven, eight, and nine.

- 545, 546, 547. **Independent Study in Mathematics.** Any quarter. (4 q. hrs. for each course.)

Advanced work on a topic or problem selected by the student, subject to the approval of his advisor.

Prerequisite: 12 q. hrs. of credit in graduate level mathematics.

550. **Mathematics in Modern Education and Life.**
Spring and Summer. (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 1968. (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.)

PHILOSOPHY

Associate Professor: Penn (Head)

Assistant Professors: Long, F. S. Taylor, Ha Poong Kim

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 philo-

330. Social and Political Philosophy. Winter. (4 q. hrs.)

A philosophical examination of man in society, the foundations of social and political institutions, and the nature of political obligation. Special emphasis on major classical and contemporary theories of society and the state.

Prerequisite: Junior standing and at least four quarter hours in Philosophy, or consent of the instructor.

360. Symbolic Logic. Winter. (4 q. hrs.)

An examination of the special symbols and structures of symbolic logic: truth functions, quantification, the logic of relations, and the class calculus.

Prerequisite: Junior standing and Philosophy 270 or consent of the instructor.

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: Junior standing and at least four quarter hours in Philosophy (Philosophy 306 recommended), or consent of the instructor.

381. American Philosophy. Spring. (4 q. hrs.)

A study of the development of American Philosophy with emphasis on the principal doctrines of the major philosophers from Jonathan Edwards to Whitehead.

Prerequisite: Junior standing and 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: Eight quarter hours in Philosophy, including Philosophy 250, or consent of the instructor.

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: Eight quarter hours in Philosophy, including Philosophy 250, or consent of the instructor.

410. Philosophy of Religion. Fall. (4 q. hrs.)

A philosophical interpretation of the meaning of religion, the character of religious experience and fundamental problems such as

PHYSICAL SCIENCE

(Taught by members of the Departments of Chemistry and Physics.)

Note: Physical Science 100, 101, 102 meet in two single periods and two double period laboratory sessions each week.

UNDERGRADUATE COURSES

100. Physical Science. Every quarter. (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 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 1968-69.) (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.

Note: Physical Science 100, 101, 102 are restricted to students in curricula for elementary teachers and for junior high school teachers.

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 and junior standing.

PHYSICS

Professors: Cloud, Lefler (Head), P. S. Smith, Waddell

Associate Professors: Breig, Eisenhour, Whalin

Assistant Professor: Taitt

Instructors: D. K. Fowler, Ruddell, M. Shepherd

Faculty Assistants: Gibson, C. E. Miller

Note: All courses except where otherwise indicated in the course description have two lecture periods and two laboratory periods 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 1968-69.) (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.)

Thermometry, 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. Quantum Mechanics and Atomic Physics I. Spring.

(4 q. hrs.)

Atomic nature of matter, limitations of classical physics; Schrodinger equation, uncertainty principle; atomic spectroscopy, outer electrons. Three lecture periods and one three hour laboratory period per week.

Prerequisite: First year college physics and one year of calculus.

467. Quantum Mechanics and Atomic Physics II. Fall.

(4 q. hrs.)

Exclusion principle; angular momentum; atomic spectroscopy, inner electrons; perturbation theory. Three lecture periods and one three hour laboratory period per week.

Prerequisite: Physics 466.

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.

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;

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. Sophomore standing.

221. Comparative World Politics. Winter. (4 q. hrs.)

An analysis of world politics since World War II with attention given to the impact of continuing crises upon the policies of the major world powers.

Sophomore standing.

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. Sophomore standing.

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. Sophomore standing.

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, or 110 and 111, or consent of the instructor. Sophomore standing.

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. Sophomore standing.

COURSES OPEN TO JUNIORS, SENIORS, AND GRADUATE STUDENTS

451. **The Supreme Court and the Federal System.** Spring.
(4 q. hrs.)

Supreme Court decisions on: Judicial Review, Federalism, Powers of Congress, Powers of the President, Contracts, Commerce and Taxation.

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** (Offered on demand.)
(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 with 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 Niccolò Machiavelli through Karl Marx.

Restricted to majors in History, Social Science, or Political Science; or consent of the instructor.

281. Experimental Techniques I. Every quarter. (4 q. hrs.)

Fundamental techniques of stimulus control and response measurement.

Prerequisite: Psychology 231 and 261.

282. Experimental Techniques II. Every quarter. (4 q. hrs.)

A continuation and expansion of Psychology 281.

Prerequisite: Psychology 231, 261, and 281.

331. Physiological Psychology. Fall. (4 q. hrs.)

A survey of the physiological correlates of the psychological behavior in man and lower organisms.

Prerequisite: Psychology 231, 261, and 281.

350. Developmental Psychology. Fall. (4 q. hrs.)

The span of life from conception to adolescence, emphasizing normal and deviant behavior.

Prerequisite: Psychology 231.

351. Applied Psychology. Every quarter. (4 q. hrs.)

Psychological principles applied to the professions, industry, and retail business.

Prerequisite: Psychology 231.

352. Adolescent Psychology. Fall, Winter and Spring.

(4 q. hrs.)

The psychology of the adolescent in relation to: family; friends; the opposite sex; delinquent behavior; growth and development; attitudes; interests; values.

Prerequisite: Psychology 231.

353. Industrial Psychology. Winter. (4 q. hrs.)

Applications of the methods and principles of psychology to industrial situations.

Prerequisite: Permission of the instructor.

359. Theories of Personality. Spring. (4 q. hrs.)

An examination of the various theories of personality development, the methods of studying personality, the disorders of personality, and an attempt to establish generalizations relating to personality growth.

Prerequisite: Psychology 231.

360. Psychological Measurements: Fundamental Principle.

Winter, Spring and Summer. (4 q. hrs.)

Statistical background, administration, interpretation and evaluation of interest, aptitude, intelligence and personality tests.

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 and junior standing.

440, 441. Contemporary Problems. (Topics to be determined.) Summer. (4 q. hrs. for each course.)**COURSES OPEN TO JUNIORS, SENIORS, AND GRADUATE STUDENTS****461. Statistics and Research Techniques in the Behavioral 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

Professors: Munson (Head), W. G. Wood

Associate Professor: Stute

Assistant Professors: Bai, Moore, Timblin

UNDERGRADUATE COURSES**271. Principles of Sociology.** Every quarter. (4 q. hrs.)

Basic concepts of sociology; social interaction and social processes; structural and functional analysis of social groups, institutions, and society; social stratification; social change.

272. Social Problems and Social Trends. Every quarter. (4 q. hrs.)

The nature of social problems; their etiology and development; deviant behavior; social disorganization; adjustment mechanisms and social control.

365. Social Systems and Social Roles. Winter. (4 q. hrs.)

Social psychological theories; social status and social roles; application of role theories in the study of socialization and personal adjustment; alienation and mental health; analysis of critical group situations and social change.

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; emphasis on sociological research design and implementation techniques.

Restricted to majors in Sociology and Social Science.

SPANISH

(See Foreign Languages)

SPEECH

Professors: D. P. Garner (Head), J. J. Hopkins, Norberg

Associate Professors: McClerren, Tame

Assistant Professors: Hadwiger, Rundle, C. N. Smith, Wheatley, Wiley.

Instructors: M. A. Baker, Cash, Hofacker, Leathers, Russell

UNDERGRADUATE COURSES**101, 102, 103. Applied Forensics.** (Nominal credit, 1 q. hr. each course.)

Individual study and work in the various activities of the forensics program.

Prerequisite: Consent of the Department Head.

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.

COURSES OPEN TO JUNIORS, SENIORS, AND GRADUATE STUDENTS**452. Advanced Theory of Mass Communications.** Spring.
(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. (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. (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. (4 q. hrs.)

A study of competing points of view on a series of critical issues of the twentieth century.

490. Directing Forensic Activities. (4 q. hrs.)

The course is designed to prepare those entering the field of speech education on the secondary and college levels to direct an extra-curricular forensics program.

Prerequisite: Speech 232 and 234.

GRADUATE COURSES

(Courses numbered 500-549 inclusive may be taken by a senior whose grade point average is 3.0 or higher with permission of the instructor and the Dean of the Graduate School. Courses numbered 550 and above are open only to graduate students.)

500. Problems in Speech. (4 q. hrs.)

The study of and reports on a specific problem in speech. Student presents an individual study plan and does intensive research on a topic dealing with the history, theory, and/or practice of Speech.

532 (471). Background of Rhetoric. (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. (4 q. hrs.)

A study of the influence of public speakers on the creation of American ideals and policies during the colonial and early national period to 1850.

ing skills. Particular attention to processing visual symbol systems. Course assignments adapted to meet needs of students.

Prerequisite: Michigan Test of English Language Proficiency and consent of instructor.

093. Communication III for International Students. Offered upon demand. (No credit)

An advanced course dealing with oral and written communication problems of international students. Particular attention to establishing minimum proficiency in language skills necessary to profit from academic instruction in basic English and speech courses. Classroom assignments will be individualized.

Prerequisite: Michigan Test of English Language Proficiency and consent of instructor.

254. Structure and Function of the Speech and Hearing Mechanics. Spring. (4 q. hrs.)

Organization and functioning of the speech and hearing mechanisms; basic neurologic, anatomical and physiologic concepts are applied to human communication.

255. Voice Science. Fall. (4 q. hrs.)

Applies basic acoustical and physiological information to normal speech production. Emphasis is on production and control of the speech sounds and voice: pitch, loudness, quality, and rate.

260. Speech Pathology. Winter and Summer. (4 q. hrs.)

A study 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; Summer. 1970. (4 q. hrs.)

Training in specific diagnostic techniques for speech disorders; planning and carrying out specific therapy techniques. Students observe therapy.

Prerequisite: Speech Correction 260.

COURSES OPEN TO JUNIORS, SENIORS, AND GRADUATE STUDENTS

452. Voice and Articulation Disorders. Fall. (4 q. hrs.)

Nature, causes and treatment of voice and articulation disorders.

Prerequisite: Speech Correction 260, 263.

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 and Summer 1970. (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 and Summer 1970. (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 and Summer 1969. (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 and Summer 1970. (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 and Summer 1969. (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 and Summer 1970. (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.

240. Introduction to the Theatre. Fall. (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. Winter. (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. Meets four double periods per week.

257. Technical Direction. Winter and Spring. (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. Meets four double periods per week.

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. Fall. (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. Meets four double periods per week.

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. Meets four double periods per week.

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. Meets four double periods per week.

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: One course in Zoology.

214. Comparative Anatomy of Vertebrates. Fall and Summer. (4 q. hrs.)

A study of structures and their evolutionary relationships in vertebrates. Based on laboratory work with typical forms.

Prerequisite: Two courses in Zoology.

215. Embryology. Winter and Summer. (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: 12 q. hrs. 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, two courses in biological science and sophomore standing are desirable.

327. 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: Two courses in Zoology.

336. Genetics. Fall, Spring, and Summer. (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.

449. Special Problems in Zoology. Any quarter. (4 q. hrs.)

An advanced course for those interested in studying some special problem in the zoology field. The work is done independently with advice of the instructor.

Prerequisite: 12 q. hrs. of Zoology and permission of the department head.

COURSES OPEN TO JUNIORS, SENIORS, AND GRADUATE STUDENTS**451. Microtechnique.** Winter and Spring. (4 q. hrs.)

Methods and practice in the preparation of microscope slides of animal tissues. Some histological studies are included. A suitable collection of slides may be made for later use in teaching.

Prerequisite: 24 q. hrs. of Zoology.

452. Animal Behavior. Spring. (4 q. hrs.)

Theoretical and experimental studies of the reactions of animals to various stimuli.

Prerequisite: 24 q. hrs. of Zoology or permission of the instructor.

453. Animal Ecology. Spring and Summer. (4 q. hrs.)

Interrelations between animals and their physical and biotic environments; biotic communities; population changes; succession; geographic distribution; adaptations. Laboratory work is done largely in the field.

Prerequisite: 24 q. hrs. of Zoology, or equivalent and permission of the instructor.

454. Animal Histology. Spring and Summer. (4 q. hrs.)

A microscopic study of animal tissues and organs and their origins and functions; advanced microscopic techniques.

Prerequisite: Zoology 451.

455. Ornithology. Spring and Summer. (4 q. hrs.)

A study of the life histories, adaptations, and structure of birds. Special emphasis upon migration, songs, nests and economic importance of our native birds.

Prerequisite: 12 q. hrs. of Zoology. Zoology 212 recommended.

456. Field Zoology. Fall and Summer. (4 q. hrs.)

An intensive course in the classification and natural history of animal life indigenous to this region, exclusive of insects and birds.

Prerequisite: 24 q. hrs. of Zoology or equivalent. Zoology 460 recommended.

555, 556, 557, 558. **Advanced Zoology.** Any quarter.
(4 q. hrs. for each course.)

Courses designed to meet the needs of individual students who wish to do advanced work in some special field of Zoology.

Prerequisite: A minor or the equivalent in Zoology and the permission of the department head.

560. **Advanced Systematics.** Winter. (4 q. hrs.)

A study of the methods and principles of animal taxonomy, including speciation (the evolution of species) and zoogeography.

Prerequisite: A minor or the equivalent in Zoology.

561. **Endocrinology.** Spring. (4 q. hrs.)

A study of the endocrine glands, the action of hormones, and the general features of the endocrine system.

Prerequisite: A minor or the equivalent in Zoology, and at least one course in organic chemistry.

595. **Thesis.** (4 q. hrs.)

EDUCATION

Professors: A. U. Edwards, C. R. Garner, Grado, Matzner, McKenna, Moler (Chairman, Educational Psychology and Guidance), Peterson, Schaefer (Dean), Stockman

Associate Professors: Corey, Crane, Floyd, C. K. Green, Knapp, MacLaren, Overton, Schenke, Shuff (Chairman, Administration and Supervision), Stromquist, Ward, Zabka

Assistant Professors: Foster, Larson

COORDINATORS OF TEACHING PRACTICUM

Associate Professors: Erwin McDonald, James H. Robertson

Assistant Professors: Bally, Elmore, Emmerich, Hancock, Jorgenson, Lackey, Pettypool, VanDeventer

Instructors: Gregg, Hockman, Kottwitz, Landes, Leathers, Libby, Pierson, John H. Robertson, M. Shepherd

UNDERGRADUATE COURSES

120, 121. Laboratory in Education. Every quarter. (1 q. hr. for each.)

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 and Winter. (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: Junior standing; Education 232 and admission to teacher education.

312. Instructional Media in the Junior High School.

Fall and Spring. (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: Junior standing; Education 232 and 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: Junior standing; 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. Every quarter. (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 principles of modern educational practices.

Prerequisite: Admission to teacher education. Not open to students who have credit in Education 343 or 440.

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. Winter, Summer 1968. (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.

491. Guidance in the Elementary School. Fall, Winter, Spring. (4 q. hrs.)

A study of principles and techniques of guidance services in the elementary school.

Prerequisites: 16 q. hrs. of Education and Psychology.

495. The Mentally Handicapped Child. Every quarter. (4 q. hrs.)

A study of the characteristics of mentally handicapped children.

Prerequisites: Admission to teacher education, Education 232 or an acceptable substitute.

496. Educational Procedures for Educable Mentally Handicapped Children. Every quarter. (4 q. hrs.)

Class and curriculum organization and introduction to methods and techniques of teaching educable mentally handicapped children.

Prerequisite: Education 495.

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. 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

549. Special Educational Problems. (On demand.) (1-4 q. hrs.)

Provides the student an opportunity for investigation and analysis of elementary or secondary school problems of a significant nature.

Prerequisite: Permission of the instructor.

550. Principles of Curriculum Development. 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.

Spring. (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.

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.

(Omitted 1968-69.) (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 1968. (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 quarter 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 quarter 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 quarter hours of education and psychology.

573. Play Therapy. Spring. (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.

tunity to experience the decision-making role of the principal through the use of simulated materials.

Prerequisites: Admission to candidacy for the degree, M.S. in Ed., or enrollment in the Ed.S. Program.

584. Administration and Supervision of the Secondary School. Spring and Summer, 1968. (4 q. hrs.)

Develops for the student planning to enter a career in secondary school administration, an understanding of the role of the principal of the secondary school. Provides an opportunity to experience the decision-making role of the principal through the use of simulated materials.

Prerequisites: Admission to candidacy for the degree, M.S. in Ed., or enrollment in the Ed.S. Program.

585. School Plant Planning. Winter. (4 q. hrs.)

Concepts and procedures for relating proposed school plants to the instructional program and community resources. 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.

587. Personnel Administration: Teacher-Administrator Relationships. Winter. (4 q. hrs.)

Principles and practices of personnel administration in educational institutions. Emphasis is placed on preparing the individual to operate effectively in the field of personnel relations under the manifold pressures exerted by individuals and groups.

Prerequisites: Education 580 or its equivalent.

588. School Business Administration. Winter. (4 q. hrs.)

A study of the principles of financial management as they relate to the administration of funds in the operation of public education at the local level.

Prerequisites: Education 586 or equivalent.

589 (489). Seminar in Audio-Visual Education. Winter, Summer. (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.

- 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 degree Ed.S. and approval of the department.

603. **Seminar: Theory and Research in Educational Administration.** Fall. (4 q. hrs.)

Presents the development of theories of administration in general and theories of educational administration in particular. A scientific and logical study of administrative performance and leadership behavior.

Prerequisites: Education 560 and Education 580 or equivalent plus the consent of the instructor.

604. **Seminar: Interdisciplinary Approach to Educational Administration.** Winter and Summer 1968. (4 q. hrs.)

Examines the contributions of the Behavioral Science and the Humanities to the study and practice of Educational Administration. Provides an opportunity to integrate material derived from related area courses.

Prerequisites: Admission to Ed.S. Program and completion of at least 12 quarter hours in related academic disciplines. Permission of the instructor.

609. **Administration in Higher Education.** Spring and Summer.
(4 q. hrs.)

A study of the scope, nature, and function of administration in higher education.

Prerequisites: Equivalent of the master's degree and/or permission of the department.

690. **Field Study in Guidance.** (Internship.) Spring and Summer.
(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.

ACCOUNTING

Assistant Professors: Ballsrud (Head), Gross, A. C. Hoffman, Rooke, Wyler

Instructor: Gueldner

230. Principles of Accounting I. Every quarter. (4 q. hrs.)

An introduction to the basic concepts of accounting and uses of accounting information.

Not open to freshmen.

231. Principles of Accounting II. Every quarter. (4 q. hrs.)

Introduction to accounting concepts, systems and controls. Partnership and corporation accounting.

Prerequisite: Accounting 230.

232. Principles of Accounting III. Every quarter. (4 q. hrs.)

Specialized accounting problems. Includes cost, budgeting and statement analysis.

Prerequisite: Accounting 231.

233. Fundamentals of Accounting. Spring. (4 q. hrs.)

An introduction to accounting principles and techniques for the non-business major.

354. Intermediate Accounting I. Fall and Winter. (4 q. hrs.)

Review of fundamental processes on a higher level with additions not covered in beginning accounting; cash and temporary investments, receivables, inventories, current liabilities, investments, plant and equipment.

Prerequisite: Accounting 232.

355. Intermediate Accounting II. Winter and Spring. (4 q. hrs.)

Accounting for long-term debt, stockholders' equity, and intangible assets. Interpretation and analysis of financial statements. Financial data adjusted for price-level changes. Funds-flow and cash-flow reporting.

Prerequisite: Accounting 232.

356. Advanced Accounting Problems I. Spring. (4 q. hrs.)

Special accounting problems related to partnerships, corporate business combinations, consignment and installment sales, and governmental units.

Prerequisite: Accounting 355.

357. Advanced Accounting Problems II. Spring. (4 q. hrs.)

Special accounting problems related to joint ventures, branches and agencies, receivership and liquidation, estates and trusts, compound interest, and additional problems in corporate business combinations.

Prerequisite: Accounting 355.

464. Auditing Theory and Practice. Fall and Winter. (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 standards and procedures.

Prerequisite: Accounting 355.

466. Advanced Federal 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: Accounting 461.

498. Readings in Accounting. Arr. (4 q. hrs.)

Individual study programs. The student will be assigned material from literature in accounting in cooperation with the Department Head. A written formal report based upon these readings must be submitted.

Prerequisite: Senior standing with strong scholarship as evidenced by cumulative grade point average and permission of the Head of the Department of Accounting.

BUSINESS EDUCATION AND SECRETARIAL STUDIES

Professor: Cooper (Head)

Associate Professor: Schutte

Assistant Professor: Graves, Kottwitz

Instructors: Gregg, Murry, Sullivan

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 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 five errors.

Prerequisite: Business Education 110 or equivalent. Not open to students who have had equivalent of two semesters of typewriting instruction.

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 Education 125 or equivalent and Business Education 112 or equivalent.

224. Advanced Shorthand, Continued. Winter and Spring. (4 q. hrs.)

Rapid note taking, accurate transcription, and mailable copies are stressed. Minimum speed requirement: ninety words a minute transcribed at not less than twenty words a minute with 98 per cent accuracy.

Prerequisite: Business Education 223 or 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 words a minute transcribed at not less than twenty-five words a minute with 98 per cent accuracy.

Prerequisite: Business Education 224 or equivalent and Business Education 210 or equivalent.

312 (212). Office Machines. Every quarter. (4 q. hrs.)

Familiarization with the function, use, and operation of adding and calculating machines, key-punch unit, tabulating-posting machine, voice-writing equipment, and duplicating devices.

Prerequisite: Business Education 111 or permission of the instructor.

340. Methods of Teaching Bookkeeping and the Basic Business Subjects. Fall and Spring. (4 q. hrs.)

A study of the curricular patterns in the bookkeeping and non-skill subjects in business education. Professional status of the business teacher, specific teaching methods, content, textbooks and teaching materials, and audio-visual aids.

Prerequisite: Admission to teacher education and junior standing.

342 (472). Methods of Teaching Shorthand and Transcription. 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 and junior standing.

494. Coordination Techniques in Vocational Business Education. Spring, Summer 1969. (4 q. hrs.)

Study of the duties and responsibilities of the Office Occupations and Distributive Education Coordinator, including establishment of training programs, supervision of trainees on the job, development of individual training programs, establishing working relationships between school, business, and home. Qualifies for vocational certification under the Vocational Education Act of 1963.

Prerequisite: Permission of Department Head.

498. Readings in Business Education. 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 head. A written formal report based upon these readings must be submitted.

Prerequisite: Senior or graduate standing with strong scholarship as evidenced by cumulative grade point average; 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.)

510. Theoretical Issues in Accounting. Summer 1970. (4 q. hrs.)

An analysis of accounting concepts, viewed in an ideal framework.

513. Contemporary Issues in Marketing. Summer 1968. (4 q. hrs.)

Current issues involved in the delivery of a standard of living. Reading and reporting on the literature of the field will be expected.

516. Contemporary Issues in Management. Summer 1969. (4 q. hrs.)

An investigation of the contemporary issues in management. Current problems in the various areas of management and a study of new management techniques.

519. Foundations of American Business. Summer 1969. (4 q. hrs.)

The historical development of American business and industry. The evolution of business practices and principles.

520. Practicum in Data Processing. Summer 1968. (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 Management 330 or 331.

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 Education 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.

230 (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.

Prerequisite: Sophomore standing.

251 (351). Principles of Management. Every quarter. (4 q. hrs.)

Fundamentals of management; objectives, policies, functions, executive leadership, organization structure and morale; operational procedure and control.

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: Management 230.

345 (452). Personnel Management. Every quarter. (4 q. hrs.)

Objectives, functions, and organization of a typical personnel program. Problems in personnel administration.

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: Management 346.

370. Principles of Financial Management. Every quarter.
(4 q. hrs.)

A study of financial organizations in the American economy.

434. Production Management. Winter. (4 q. hrs.)

Management of manufacturing enterprises. Includes plant location, plant layout, production processes, and production control systems.

Prerequisite: Management 251.

435. Motion and Time Study. Fall. (4 q. hrs.)

Study of work methods, design and principles of motion and time economy.

Prerequisite: Management 251, 434.

436. Managerial Decision Making. Spring. (4 q. hrs.)

Decision making in a simulated dynamic, competitive industry. A computer program is used to simulate an industry. Teams of students act as companies making decisions regarding price, research and development, advertising production levels and others.

Prerequisite: Management 251.

437. Job Evaluation. Winter. (4 q. hrs.)

Analysis of the methods and techniques used in evaluating jobs within an organization. Problems of wage and salary structure.

Prerequisite: Management 251 and 345.

438. Labor Law. Spring. (4 q. hrs.)

A study of early doctrines, structure and purpose of labor combinations, and legal problems arising from activities of labor organization in industrial controversies. Jurisdiction over disputes, remedies available, regulatory labor legislation, management's responsibility under the law.

Prerequisite: Management 347.

439. Real Estate. Spring. (4 q. hrs.)

A study of theory and practice in real estate, with social and economic implications.

Prerequisite: Management 347.

445. Collective Bargaining. Winter. (4 q. hrs.)

Deals with the role played by management and labor representatives in the collective bargaining process as revealed by analysis of a series of actual cases in diverse industries. Specific attention is devoted to a consideration of the factors making for industrial conflict and the means of their amicable settlement.

Prerequisite: Management 347.

490. Internship in Management. Arr. (4 q. hrs.)

Employment experience in a phase of management for one quarter, in a firm approved by the Head of the Department of

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 salesmanship 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.

Prerequisite: Marketing 247.

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.

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: Accounting 230, Economics 256, or permission of the instructor.

371. Materials Management. Spring. (4 q. hrs.)

The acquisition, control and utilization of materials in industrial operations. Deals with the nature of procurement, inventory control and value analysis.

Prerequisite: Marketing 247, Management 351 and Economics 256.

449. International Marketing. Winter. (4 q. hrs.)

An introduction to foreign trade with emphasis on international marketing institutions, cooperation, and technical features of overseas operations.

Prerequisite: Marketing 247 and Economics 256.

490. Internship in Marketing. Arr. (4 q. hrs.)

Employment experience in some phase of marketing for one quarter, in a firm approved by the Head of the Department of Marketing, to be agreed upon by the firm and the Department Head.

Prerequisite: Permission of the Department Head and acceptance of the student by a business firm on the basis of the student's application.

SCHOOL OF HEALTH,

**SCHOOL OF HEALTH,
PHYSICAL EDUCATION, AND RECREATION**

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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.)

501. Current Health Problems. Spring. (4 q. hrs.)

An epidemiological investigation of the cause, nature, extent, and trends in programming current health problems, including chronic and degenerative diseases, mental illness; traumatic injury; radiological hazards and contamination; communicable diseases; and nutritional deficiencies.

PHYSICAL EDUCATION FOR MEN

Professors: R. A. Carey, Groves, Lowell, Masley, O'Brien (Head)

Associate Professors: Caine, Hussey, Riordan

Assistant Professors: Buckellew, Darling, Elmore, Eudeikis, Katsimpalis, McCabe, Paap, Pinther, Teller, Woodall

Instructors: Biggers, Bissell, Chizevsky, R. E. Edwards, Mills, Newcomb, Padovan, Vaughan

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 48.

103. **Basketball** (Beginning). Every quarter. (1 q. hr.)
104. **Recreational Team Games.** (Omitted 1968-69.) (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.

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 1968-69.) (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.

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 1968-69.) (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 1968-69.) (4 q. hrs.)

Fundamentals of heavy apparatus; rings, trampoline; free exercise.

359. Tennis Coaching. (Omitted 1968-69.) (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 1968-69.) (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.)

Responsibilities of an administrator in program planning; construction of facilities; purchase and maintenance of equipment; upkeep of gymnasiums and play-fields; interschool and intramural athletics.

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.

570. Experimental Laboratory Research in Physical Education. Winter. (4 q. hrs.)

Methods and Techniques in research in physical education and related fields.

Open to both men and women.

595. Thesis. (4 q. hrs.)

PHYSICAL EDUCATION FOR WOMEN

Professors: Hart, Lowell (Acting Head)

Associate Professors: Daves, Flower

Assistant Professors: Bally, Bovinet, A. R. Elliott, Riley

Instructors: Fuller, Gerstenberger, N. C. Green, Metcalf, Moody, Nies, Yu

Faculty Assistants: Bennett, Cook, T. A. Hopkins, Tingley

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 (team and individual)

2 courses in dance

1 course in fundamentals

187. **Tennis.** Fall, Spring, and Summer. (1 q. hr.)
Required of all majors.
188. **Fencing.** Winter and Spring. (1 q. hr.)
190. **Folk and Square Dance.** Every quarter. (1 q. hr.)
Open to both men and women. Required of all majors.
191. **Modern Dance.** Fall, Winter, and Spring. (1 q. hr.)
Open to both men and women. Required of all majors.
192. **Ballroom 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. Required of all majors.
196. **Officiating.** Fall. (1 q. hr.)
For physical education majors and minors only. Required of all majors.
197. **Officiating.** Winter. (1 q. hr.)
For physical education majors and minors only. Required of all majors.
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.
Required of all majors.
272. **Basketball** (Intermediate). Winter. (1 q. hr.)
Prerequisite: Physical Education 172 or permission of the instructor.
273. **Field Hockey** (Intermediate). Fall. (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.

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 or 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 Exercises. 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.

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, Spring, and Summer. (4 q. hrs.)

Study of effective procedures in organization and administration of the Physical Education program. Students prepare a curriculum on the elementary, junior or senior high school level based upon principles studied in Physical Education 410.

Prerequisite: Physical Education 410.

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.

514 (459). Current Trends in the Teaching of Physical Education in the Elementary and Junior High School.

Fall. (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.

515. Physical Education—An Aesthetic Approach.

Summer. (4 q. hrs.)

Study of physical education in relation to certain of the arts and its philosophical and historical evolution and development as related to various cultures.

Open to both men and women.

519. Growth and Development Through Physical Education.

(Omitted 1968-69.) (4 q. hrs.)

Survey of the physical, social, emotional, and intellectual growth and development of children and adolescents as these relate to curriculum planning for physical education.

Open to both men and women.

520 (495). Course of Study Development in Physical Education.

Spring. (4 q. hrs.)

See Physical Education (Men).

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.

(Omitted 1968-69.) (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: Proficiency in the areas studied.

ADDITIONAL

**SCHOOL OF
HOME ECONOMICS**

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 Winter. (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.

232. Fashion Analysis. Winter. (4 q. hrs.)

A study of fashion; selected designers, cycles and trends of fashion, terminology, production and distribution of fashion goods and factors affecting consumer acceptance.

Prerequisite: Home Economics 131.

233. Textiles. Fall. (4 q. hrs.)

An introduction to the study of fibers, methods of fabricating textiles, and finishes on the market.

Prerequisite: Home Economics 131.

235. Household Physics. Spring. (4 q. hrs.)

Application of physical sciences to the home. Selected principles of electricity, heat, light, sound; physical and chemical characteristics of materials used in the home. Background information for home economists in business.

245. Home Management Theory. Fall and Winter. (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. Fall and 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. Every quarter. (4 q. hrs.)

Tailoring techniques used in the construction of a suit or coat.

Prerequisite: Home Economics 201.

302 (344). Advanced Nutrition. Winter and 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.

346. Child Development. Every quarter. (4 q. hrs.)

The physical, mental, social, and emotional development of the pre-school child.

347. Family Relationships. Winter and Spring. (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.

348. Practicum in Child Development. Every quarter.
(4 q. hrs.)

Supervised observation and participation in the guidance of children in the Nursery School.

Prerequisite: Home Economics 346 or Education 232 or consent of instructor.

360. Institutional Food Management. Fall. (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 or 303, 210, and 211.

370. Summer Practicum. Arranged. (4 q. hrs.)

An individually planned employment experience in business appropriate to the student's area of specialization and approved by the head of the department in cooperation with the supervisor in the business.

Prerequisite: Permission of the department head and acceptance of the student by a business firm on the basis of the student's application.

380. Demonstration Techniques. Spring. (4 q. hrs.)

Development of desirable techniques and standards for use of the demonstration method. Critical evaluation of individual and team demonstrations suitable for use in business, teaching, and adult education.

390. Communications in Home Economics. Winter. (4 q. hrs.)

A study of techniques and skills in communicating home economics ideas, attitudes and subject matter with individuals and groups in various professional situations.

401. Principles of Pattern Design. Spring. (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.

570. Evaluation in Home Economics. (4 q. hrs.)

Development and critical evaluation of instruments designed to measure pupil growth.

595. Thesis. (4 q. hrs.)

Individual direction of research thesis writing.

INDUSTRIAL ARTS

Professors: C. A. Elliott, E. W. Fowler, Klehm (Head), Sonderman

Associate Professors: Erwin, Griffin, Strandberg, Teel

Instructor: Watson

UNDERGRADUATE COURSES

Note: Courses in Industrial Arts are classified for curriculum selection as follows:

Orientation and Professional: 141, 340

Crafts: 129, 224, 225, 447, 452

Electricity: 116, 117, 216, 447

Graphic Arts: 111, 212, 311, 312, 313, 315, 412 447

Graphics: 101, 104, 201, 202, 205, 301, 302, 303, 405, 447

Metals: 106, 306, 307, 308, 310, 409, 447

Woods: 121, 122, 321, 322, 323, 423, 447

101. Basic Engineering Drafting. Fall, Winter, Spring.

(4 q. hrs.)

Introduction to graphics in industry, basic graphical techniques and projection theories, basic spatial relationships and classifications, specifications, conventional practices, and topographic drafting. Two hours lecture and 4 hours laboratory per week. Required of all majors.

104 (131). Engineering Graphics. Winter. (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. Three hours lecture and three hours laboratory each week.

106 (140). Metals in Technology. Fall and Winter. (4 q. hrs.)

The properties, extractive processes and commercial applications of common metals. Emphasis on design and manufacture of commercial products as influenced by cutting, forming and fabricating technology. Two hours of lecture and four hours of laboratory per week.

111. Survey of the Graphic Arts. Fall and Winter. (4 q. hrs.)

A survey of the graphic arts and allied industries through the study of raised, flat, recessed, and porous surface printing. Laboratory experiences and information regarding industrial procedures, occupations, and graphic arts education. Two classroom and four laboratory periods per week.

116 (150). AC and DC Circuits. Every quarter. (4 q. hrs.)

This course presents a comprehensive study of direct and alternating current circuits. It includes the study of theory and problem

202. Fabrication Drafting and Analysis. Winter and Spring.
(4 q. hrs.)

A study of current industrial fabrication methods used in sheet metal welding, structural and pre-fabrication units. Emphasis on drafting techniques, methods and standards used in industrial fabrication drafting rooms. Three hours lecture and three hours laboratory work each week.

Prerequisite: Industrial Arts 101 and proficiency in high school algebra and trigonometry or college algebra and trigonometry.

205. Industrial Arts Design. Fall and Winter. (4 q. hrs.)

Introduction to applied design, history and philosophy of applied design, methodology and essentials of design as applied to project selection in the industrial arts laboratory. Four hours lecture per week.

Required of all majors and minors.

Prerequisite: Industrial Arts 101.

212. Survey of Offset Lithography. Spring. (4 q. hrs.)

Laboratory experiences and instruction in planning and layout, cold and photo-composition, copy preparation, photo-mechanical procedures, and offset presswork. Study of offset lithography materials and supplies. Two classroom and four laboratory periods per week.

Prerequisite: Industrial Arts 111 or consent of the instructor.

216 (300). Basic Vacuum Tube Circuits. Spring. (4 q. hrs.)

The study of basic tube type electronic devices and circuits. Emphasis is placed on the diode, triode, tetrode, pentode and special purpose tubes. The student will make a descriptive, graphic and equivalent circuit approach to the study of tubes and their application to rectification and amplification with related reference to oscillators, detectors and converters. Two classroom and four laboratory periods per week.

Prerequisite: Industrial Arts 116.

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 four laboratory periods per week.

This course is not open to industrial arts majors.

225. Intermediate Grade Industrial Arts. Fall and Winter.
(4 q. hrs.)

Laboratory experiences and informational content concerning industrial crafts for intermediate grade level. Two lectures and four laboratory periods per week.

This course is not open to industrial arts majors.

310 (326). Forming and Fabricating of Sheet Materials.

Winter and Spring. (4 q. hrs.)

The methods of forming and fabricating sheet materials with emphasis of design and layout principles. Two hours of lecture and four hours of laboratory per week.

Prerequisite: Industrial Arts 106.

311 (361). Linecasting Machine Functions. (Omitted

1968-69). (4 q. hrs.)

Laboratory experiences in care, maintenance and operation of line casting machines, straight, mixed, tabular composition. Two classroom and four laboratory periods per week.

Prerequisite: Industrial Arts 111.

312 (360). Letterpress Printing. Fall. (4 q. hrs.)

Laboratory experiences in automatic platen and cylinder imposition, lockup, and presswork. Printing materials, maintenance, estimating and production problems. Two classroom and four laboratory periods per week.

Prerequisite: Industrial Arts 111.

313. Graphic Arts Technology. Spring. (4 q. hrs.)

A study of the technologies of modern graphic arts. Production of books, magazines, newspapers. Comparison of printing papers, inks, plates. Computer implications for typesetting, quality control, inventory, personnel. Relationship of labor and industry. Limited laboratory experiences in practical application of graphic arts technology. Four classroom periods per week.

Prerequisite: Industrial Arts 111.

315. Graphic Arts for Journalists. Winter. (4 q. hrs.)

A study of the graphic arts and allied industries pertinent to the journalism student. Laboratory experiences in the application of printing materials and equipment to newspaper and commercial printing production. Information regarding new trends and developments in graphic arts, occupational opportunities. Restricted to journalism majors and minors. Two classroom and four laboratory periods per week.

Prerequisite: No previous course in graphic arts on the university level; any other prerequisites to be ascertained by journalism personnel.

321 (265). Woodfinishing. 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 by various methods to a variety of woods.

423 (444). Tool Maintenance. Spring. (2 q. hrs.)

Reconditioning and care of hand and power operated saws, straight edge cutting tools, and wood boring tools. One class discussion and three hours laboratory work each week.

Prerequisite: Industrial Arts 323.

447. Technical Investigations in Industrial Arts.

On demand. (4 q. hrs.)

Technical investigation involving experimental 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.** 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 four laboratory periods per week.

458. History of Vocational Industrial Education.

Summer. (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. Fall and Winter. (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.

problems involving points, lines and planes; parallel, angular and perpendicular relationships; problem solution by rotation; empirical equations; geometry of plane and space vectors; and graphical calculus. Three hours lecture and three hours laboratory per week.

Prerequisite: Proficiency in Industrial Arts 101, Mathematics 134.

205. Light Building Surveying. Spring. (2 q. hrs.)

Introduction to transits, levels, measuring tools and equipment. Fundamentals of surveying, computing, and plotting. Selected field work in location, elevation, and land surveys. Four hours of laboratory per week.

Prerequisite: Proficiency in Industrial Arts 101, Mathematics 131.

316. Communications Circuits and Systems. Winter. (4 q. hrs.)

Advanced study of electronic systems, using tubes or transistors and basic components. Emphasis on functioning applications of electronics, power supplies, audio amplifiers, transmitters and receivers. Two class discussions and four periods of laboratory work each week.

Prerequisite: Industrial Arts 216 and 117.

370. Industrial Mechanisms. Winter. (4 q. hrs.)

Applied mechanics of machinery including gearing, belting, cams, hydraulics, pneumatics and other power transmitting systems. Two hours of lectures and 4 hours of laboratory per week.

Prerequisite: Physics 130 and Mathematics 134.

400. Applied Strength of Materials. Spring. (4 q. hrs.)

Experimental analysis of the mechanical properties of industrial materials. Tensile, compressive, torsional, and flexural strength of such materials as woods, metals, plastic and concrete. Analysis of simple and combined stresses and properties of materials to meet functional design criteria in such elements as riveted joints, beams, columns, shafts, and keys. Two hours of lectures and four hours of laboratory per week.

Prerequisite: Mathematics 134, Industrial Arts 306, 122 and 116.

401. Office Practice and Specifications. (Omitted 1968-69.)
(2 q. hrs.)

The fundamentals of office management and procedures. The essentials of design, labor, specifications, fabrication and other factors as applied to light building construction. Emphasis on finance, personnel and legal aspects.

SCHOOL OF MUSIC

The School of Music is a member of the National Association of Schools of Music. Membership in this Association is granted to schools which can show evidence of permanence and stability and which meet in full the standards of the Association for all the music curricula offered by the institution.

- 151, 152. **Preliminary Survey of Music.** Fall and Spring.
(2 q. hrs. for each course.)

An introduction to selected important works of music literature embracing the periods from the renaissance through the twentieth century, with special emphasis on aural and visual recognition of forms, textures, and styles.

Must be taken in sequence. 151 required of all music majors.

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.

203. **Class Instruction in Percussion.** Winter. (2 q. hrs.)

A study of beginning 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 and Tuba.**

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 and Winter.

222—Winter and Spring. (4 q. hrs. for 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 competence 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 un-

problems of pronunciation, meaning, dictionary use, and communication in the singing of English, Italian, German, and French.

Prerequisite: Applied voice, Music 133, 134, 135 (or equivalent).

246, 247, 248. Basic Keyboard Skills. Fall, Winter and Spring.
(1 q. hr.)

These courses are designed to develop basic skills in transposition, harmonization and extemporaneous accompaniment of melodies, and sight reading at the keyboard.

256, 257, 258. Ensemble: 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.)

338. Music in the Allied Arts. Spring. (4 q. hrs.)

A study of the arts and thesis function, formal and expressive elements, and principles of organization. The emphasis is on the study of music and the function of music as it relates to the other arts.

Open only to music majors and minors.

Prerequisites: 1 course in Philosophy and 2 courses in each of the following areas: Art History and Appreciation; English Literature; History; Music History and Literature; and Music Theory.

380. 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. 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.

410, 411, 412. Ensemble, Band. (1 q. hr. for each course.)**413, 414, 415. Ensemble, Chorus.** (1 q. hr. for each course.)**432. Psychology of Music.** (Omitted 1968-69.) (4 q. hrs.)

Analysis of musical talent; testing and guidance programs; analysis of factors in musical performance and the application of elements of 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. 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**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: 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.

461 (510). Sixteenth Century 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.

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 or 381.

517. Analytical Techniques. Fall. (4 q. hrs.)

An investigation of structure, stylistic characteristics and compositional techniques.

Prerequisite: Music 447.

526. Administration of Instrumental Organizations. Summer.

(2 q. hrs.)

This course aims to prepare the student for administrative problems which apply particularly to the instrumental teacher and which lie beyond the area of pedagogy.

528. Aesthetics of Music. Winter. (4 q. hrs.)

A study of man's search for beauty through musical experience; the meaning and value of beauty in music as realized by creator, performer, and listener throughout various historical periods.

530. Chamber Music Literature. Spring. (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 Mannheim composers, the Viennese classics, the Romantics, the National schools, and late European and American developments.

534. Song Literature. Winter. (2 q. hrs.)

A study of art song and aria with emphasis upon repertoire selected from the seventeenth century to and including the twentieth century.

536. Opera and Oratorio. Spring. (4 q. hrs.)

A study of selected opera and oratorio literature from Monteverdi to the present day.

540. Keyboard Literature of the Baroque Era. Fall. (2 q. hrs.)

A study of the literature of the stringed keyboard instruments from the beginning of this music through 1750.

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.

562, 563. Foundations and Principles of Music Education.

Winter and Spring. (4 q. hrs. for each course.)

Systematic treatment of the total music education program through examination of the historical, philosophical and psychological foundations of music education, and development of principles for all aspects of the operation of the music program.

566. Introduction to Research in Music. Spring. (4 q. hrs.)

A study of the scope and characteristics of the areas of music history and literature, composition and theory, performance, and music education, including problems in basic bibliography. Course involves library and research techniques as well as practice in organizing and reporting data.

572, 573. Class Piano Pedagogy and Internship. Fall and

Winter. (4 q. hrs. each course.)

A study of the mechanics and purposes of group piano teaching supplemented by observation and practice teaching in college classes.

Prerequisite: Music 362 or consent of instructor.

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. Every quarter. (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.

Instrumental Music Option

- A. Instrumental Principal (Wind, String, or Percussion)—11 q. hrs.
 - Piano—3 q. hrs.
 - Voice—3 q. hrs.
- B. Keyboard Principal—11 q. hrs.
 - Band or Orchestral Instrument—3 q. hrs.
- C. Composition Principal—11 q. hrs.
 - Piano—6 q. hrs.
 - Voice—6 q. hrs.

Vocal Music Option

- A. Vocal Principal—11 q. hrs.
 - Piano—6 q. hrs.
- B. Keyboard Principal—11 q. hrs.
 - Voice—6 q. hrs.
- C. Composition Principal—11 q. hrs.
 - Piano—6 q. hrs.
 - Voice—6 q. hrs.

General Music Option

- A. Instrumental Principal—8 q. hrs.
 - Piano—3 q. hrs.
- B. Keyboard Principal—8 q. hrs.
 - Voice—3 q. hrs.
- C. Vocal Principal—8 q. hrs.
 - Piano—3 q. hrs.
- D. Composition Principal—8 q. hrs.
 - Piano—3 q. hrs.

Instrumental Music Secondary

Band or Orchestral Instrument—3 q. hrs.

Vocal Music Secondary

Voice—3 q. hrs.

CREDIT ORGANIZATIONS IN MUSIC

The student with a major or minor in music may register after the freshman year 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. Only music majors and minors may apply credit in ensemble toward graduation requirements. Non-music majors or minors are invited to participate in the above listed organizations on an extra-curricular basis. Credit is accumulated each quarter at the rate of $\frac{1}{2}$ 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

Orchestra

The orchestra is open to student string, wind, and percussion players. Many instruments are furnished to supply a complete instrumentation.

Symphonette

A select "little symphony" for the performance of the highest quality orchestral literature. Membership is open to faculty, students and area residents. Membership is selected by audition.

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**Chamber Singers**

An ensemble of mixed voices for the study and performance of vocal chamber music dating from 1500 to the present. Audition required.

Chamber Groups in Instrumental Music

Chamber groups of woodwinds, brasses and strings are organized to enrich the experience of players in the standard literature. These groups appear publicly and are regularly in rehearsal.

Collegium Musicum

A select group of vocal and instrumental musicians who devote their efforts to the study of old or little-known works. Membership is by invitation. Two meetings per week, during Fall and Winter quarters only.

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.

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. A student who demonstrates outstanding accomplishment in a study or teaching area shall be permitted to petition for exemption from performance in a senior recital.

Juniors:	Men	32	8	5	6
	Women	29	15	19	22
	Total	61	23	24	28
Sophomores:	Men	17	5	7	5
	Women	29	20	23	20
	Total	46	25	30	25
Freshmen:	Men	24	8	10	12
	Women	42	17	28	35
	Total	66	25	38	47
Graduates:					
Fifth Year:	Men	37	123	102	136
	Women	60	121	109	135
	Total	97	244	211	271
Sixth Year:	Men	16	41	45	63
	Women	1	7	11	23
	Total	17	48	56	86
Workshops:	Men	20	—	—	—
	Women	72	—	—	—
	Total	92	—	—	—
Total	Men	211	194	204	239
	Women	282	197	209	265
	Total	493	391	413	504
<i>Total, On Campus:</i>	Men	1479	3225	3149	3118
	Women	1494	3266	3108	3047
	Total	2973	6491	6257	6165
<i>Full-Time Equivalent:</i>					
(Resident)		2722	6264	6016	5868
<i>Part-Time, Off Campus:</i>					
	Men	—	49	—	85
	Women	—	116	—	187
	Total	—	165	—	272
<i>Total University:</i>	Men	1479	3274	3149	3203
	Women	1494	3382	3108	3234
	Total	2973	6656	6257	6437
<i>Full-Time Equivalent:</i>		2722	6319	6016	5957
LABORATORY SCHOOL					
	Boys	118	258	256	258
	Girls	116	257	256	258
	Total	234	515	512	516

ARMSTRONG, SHARON LEE	El Paso
ARNETT, NANCY E.	Pana
†BABA, PATRICIA ANN	Deerfield
*BACON, VICKI SUE	Watseka
BAKER, JUDITH ANN	Casey
*BALES, JAMES HENRY	Stewardson
†BARANAUSKAS, ROSALIE ANN	Westfield
†BARKLEY, KYLE MAYO	Newton
*BARTLETT, JUDITH FAYE	Mattoon
*BARTSCHT, CHARLA JEAN	Shelbyville
BAUMANN, PATRICIA L.	Skokie
*BAUMRUCKER, CRAIG RICHARD	Brookfield
BEALS, JOAN FAY	Sullivan
BEARD, ADRIAN GREGORY	North Chicago
BELL, GLORIA JEAN	Charleston
BERG, JUDITH MARIE	Lincoln
BEUBE, D. MICHAEL	Park Ridge
†BIRCH, L. KAREN WORKMAN	Mattoon
BLACK, JANET LOUISE	Salem
BLACK, SUZANNE CAROL BERTRAND	Salem
*BLAGG, MARY LOUISE STAUB	Marshall
BLETSCHE, ANN TAIT	Highland Park
BOHN, BARBARA ELIZABETH	Clinton
BOHNSACK, NORMAN R.	Galena
BOOTH, KAREN PAULINE	Carrollton
BORK, SALLEE JO	Decatur
*BOUSLOG, MARY BETH	Chrisman
BRADLEY, DAVID DALE	Decatur
BRODERICK, RICHARD ALLEN	Danville
BROOKS, KAREN COX	Homer
BROWN, ANITA ASHMORE	Oakland
BRYAN, KERRY LEE	Homer
BUCHANAN, EDWIN ROBERT	Chrisman
*BUMPUS, MARTIN LOWELL	Mattoon
BUNDY, MICHAEL DEAN	Centralia
BUTLER, ANN	New Lenox
†BUTLER, JOHN DANIEL	Chicago
CALVERT, SHIRLEY ANN	Westfield
†CAMPBELL, MARCIA KAREN DALE	Champaign
CANFIELD, PAULA SUE	Kankakee
CARMAN, DAVID L.	Mattoon
CARMICHAEL, RICHARD BLAINE	Decatur
*CARTER, ROSE MARIE	Decatur
*CASE, GORDON FRANK	Manhattan
CASTLE, MARCELLA MAE	Joliet
CAVENAH, ANDRELLE ELENA	Biloxi, Mississippi
CAYER, ARLENE VIVIAN	Chicago
*CENDER, ROSA M.	Charleston
†CHAPMAN, THOMAS NORWOOD	Broadlands
†CHARLESTON, CATHERINE E.	Charleston
CHEANY, JR., RICHARD DONALD	Petersburg
*CHILDRESS, LINDA KAY	Ashmore
CHIPMAN, JEANNINE RAE	Kankakee
†CICHALEWSKI, ANDRZEJ	Oakland
*CLAAR, ROGER CHARLES	Effingham
†CLARK, RUSSELL EDMUND	Albion
†CLARK, SHERRILYN GAY	Homer
CLEVER, DIANE GAIL	Lincoln
†CLIFFORD, ROBERT ALLEN	Springfield
COBBLE, JAMES D.	Mattoon
*COLEMAN, DAVID MAURICE	Willow Hill
COLLINS, GARY LEE	Charleston

FREIDINGER, CAROLE LOU	Monticello
FRENCH, MARILYN KAY	East Peoria
*FRIEDMAN, LINDA MARIE	St. Anne
FRITZ, ARLENE I.	Strasburg
*FRITZ, DONNA JEAN	Oblong
*FRYE, GARY C.	Villa Grove
FULTON, LARRY DEAN	Decatur
GABEL, MARK LEWIS	Montrose
GAINES, SHARI ANN JONES	Mattoon
*GALEY, LINDA KAY	Martinsville
GAY, CAROL AYRES	O'Fallon
GIBBS, STEPHEN WESLEY	Charleston
GILLMORE, ELLEN MARIE	Edgewood
†GLENN, JANNIE DELMA	Chicago
†GLOVER, DAVID W.	Grayville
GOLUBA, JUNE E.	Loda
GOOCEY, BEVERLY TOOMBS	Flora
†GOODELL, JANET SUE	Shirland
GOWER, MARTHA MARY MOSHENROSE	Newton
GRAHAM, DONALD CHARLES	Oblong
†GREVE, JAMES THOMAS	Tuscola
GRIFFIN, RUSSELL LEN	Decatur
GRIFFTH, THOMAS L.	St. Joseph
*GRIFFY, CAROL ANN	Kankakee
†GROFF, GARY LEE	Charleston
CUDAUSKAS, MINNIE J.	Georgetown
GUST, SHARON LEE	Mattoon
*GUSTAFSON, KAREN FRANCES	Elmwood Park
GUYER, NANCY RAE	Kansas
HAHN, WARREN A.	Urbana
*HALLIBURTON, RICHARD D.	Charleston
*HAMILTON, CAROL McDUFFIE	Mattoon
*HAMPSON, GENE WILBUR	Mattoon
HAND, KAREN RENEE WARFEL	Toledo
†HARBAUGH, STEPHEN LEWIS	Newman
*HARDT, MARLENE ADELE	Elburn
HARDY, JOHN F.	Westville
HARPER, STEVEN TRITT	Ogden
†HARRMANN, TERRY ORLANDO	LaSalle
*HARRY, SUSAN ELIZABETH	Glenview
HARTKE, JANICE LYNN	Kankakee
†HARTSFIELD, WILMA JO	Taylorville
HASARA, MARY LOUISE	Springfield
HATCH, BONNIE J.	Lake Bluff
HATHAWAY, WILLIAM CHARLES	Mount Vernon
HEALY, EILEEN MICHELE	Hidalgo
†HENDERSHOT, HARRY RAY	Newman
*HENDERSON, DARLENE ANN	Casey
*HENSON, CYNTHIA JANE	Flora
*HERR, MARSHALL FREDERICK	Decatur
HIGGINS, JANENE MOREA	Charleston
†HIGGINS, KATHRYN MARIE	South Beloit
HILL, SHARYN CLAIRE	Danville
HINDMAN, JANE ELLEN	Woodstock
HINES, BONITA CAROL	Milford
†HINKEL, GALEN LEON	Newton
HINKLE, MARCIA ANN	Decatur
†HOFEK, KAREN LEIGH KING	Chestnut
*HOLT, SHIRLEY ANN	Newton
HOMMA, THOMAS K.	Highland Park
HOOD, PATRICIA MICHELE	Pana
*HOOD, RICHARD LEE	Arthur

MAGGERT, SHARON IRENE	Paris
MAHNKE, DALE R.	Shelbyville
MAHON, FRANCES ANN	Quincy
†MANUELL, RICHARD ELLIS	Palestine
MARKS, SYLVIA FILDES	Olney
MARLOWE, JOHN EDWARD	Paris
MARQUARDT, BILLY JOE	Bloomington
†MARSHALL, RICHARD LeeROY	Toledo
MASSIE, CHARLES CURTIS	Toledo
*MASTERS, WAYNE EDWARD	Vandalia
MATHER, JUDITH MARILYN	Charleston
MATTHEWS, JAMES WILLIAM	Girard
MATTSON, KATHERINE EILEEN	Crystal Lake
*MAURER, GLENN EVERETT	Marshall
†McCARTER, MARY MARGARET	Palestine
*McCOLLEGAN, LINDA KAY	Granite City
McCORMACK, M. KATHLEEN	Springfield
*McCOY, JR., MAURICE DALE	Yale
McCRACKEN, JAMES ROY	Hillsboro
*McCREARY, PAUL L.	Hoopeston
McGRATH, MARYELLEN	Wilmington
McINTIRE, JOAN BRYDEN	Champaign
*McLIN, LINDA RAE	Scotland
McNABB, KAREN LOUISE	Charleston
*MEEHAN, THOMAS PAUL	Park Forest
MEIER, DONNA LEE	Elgin
*MELIN, MARY KAY	Hoopeston
MILLER, GLENN ALLEN	Toledo
MILLER, HERBERT TRUMAN	Metcalfe
*MILLS, JR., BARCLAY ERWIN	Mattoon
†MINTUN, SHIRLEY E. BAUGHMAN	Mattoon
MITCHELL, MARGRET ELIZABETH	Palatine
MITCHELL, SHARON SUE	Waverly
*MONTs, CAROL LYNN	Lombard
MOON, JEANNE PEARSON	Charleston
†MOORE, PHILIP BARTLEY	Ft. Myers, Florida
MORRIS, JAMES LEE	Hopedale
MORRIS, MARJORIE LEE	Lawrenceville
MORRIS, MARY ELIZABETH	Washington
MORRISON, JOHN C.	
MOSER, WILLIAM DANIEL	Decatur
*MOSLEY, CAROL ANN	Divernon
MOULTON, LINDA SUE	Mattoon
MUHS, RALPH EDWARD	Mt. Carmel
MULLEN, CHERYL FERN	Paris
*MUSHRUSH, JERRY RAY	Lincoln
MYERS, JAQUELINE KAY	Rantoul
NEWELL, LARRY ALLEN	Tolono
NEWKIRK, PENNY JO	Mt. Carmel
NEWLIN, JERRY DEAN	Atwood
NORDSTROM, DONNA JEAN	Peoria
NOSBISCH, CARL CHRIS	Kinmundy
NUXOLL, MARGORIE ANN	Olney
†ORR, DAVID CLAUDE	Anchor
ORYHON, JANET MARIE	Hazel Crest
OWENS, SHERRY ALANE	Elmhurst
*PALM, SALLY KATHLEEN	Chicago
PARKHURST, DIANNE ELLIS STALLARD	Mattoon
*PEABODY, CHARLES KEITH	Champaign
PEKARA, GUS C.	Chicago
*PERKINS, JOHN F.	Weldon
PETERSON, KEITH GERALD	Des Plaines

SKEEN, RAYMOND LEE	Lansing
SKINNER, JAMES MARTIN	Broadlands
SLOAN, CAROL ANN	Tinley Park
*SMITH, BONNIE HELEN	Decatur
†SNEAD, KENNETH WILLIAM	Decatur
*SNYDER, JOSEPH ALLEN	Charleston
*SPENCER, SARA JANE	Eldorado
†SPERRY, CONNIE SUE BIRCH	Ingraham
†SPREHE, MARY JANE	Centralia
STANLEY, THOMAS MICHAEL	Bogota
*STEINER, LINDA LOU	Onarga
†STEPHENS, SALLY ANN	Hutsonville
*STERCHI, JERI LINN	Olney
STERCHI, THOMAS NEAL	Olney
†STEVENSON, CHERYL ANN	Effingham
*STEVENSON, ROGER	Effingham
STIEB, SALLY ANN	Granite City
STIVERS, ELAINE STOLTZ	Charleston
†STONER, ELIZABETH HEISCHMIDT	Charleston
STOUT, CHERYL ELYSE	Wilmington
*STRAKA, JERALDINE L.	Granite City
STRANGE, JAMES ROBERT	Arcola
*STRAYER, SUSAN JAYNE	Danville
*STRUS, DAVID F.	Effingham
SULLIVAN, THERESE ANNETTE	Moweaqua
SUNDAY, CAROLYN MURBARGER	Clay City
SUTFIN, JOSEPH	Robinson
*SUTTON, DeLORIS	Centralia
*SWAN, ROBERT VERLON	Newman
SWARENS, ROBERT MICHAEL	Lawrenceville
†TARR, GLORIA E.	Newton
TECHTOW, LORETTA REED	Danville
TEEVEN, KEVIN MICHAEL	Olney
TEMPLEMAN, DON WILLIAM	Williamsville
THORNTON, LaVADA BELINDA FIELDS	Danville
†TIONA, MARY LOUISE	Bunker Hill
TODD, CAROL JEAN	Greenville
TRACY, ALAN NEIL	Robinson
TRACY, CARROLL WAYNE	Robinson
*TROYER, DOUGLAS A.	Gibson City
*TUCKER, JOY ANN	Greenup
TUTTLE, GEORGE EVERETT	Mattoon
†UMMEL, SUZANNE JUNE	Villa Grove
†VALISKA, ROBERT ANDREW	Lansing
VanBELLEHEM, MARY R. CASEY	Charleston
VAVRINEK, CAROL ANN	Downers Grove
VEIHMAN, MILDRED RUTH	Mt. Carmel
WAGNER, JR., DONALD RAY	Newton
*WAGNER, CHARLES EDWARD	Salem
WALDEN, RONALD EUGENE	Charleston
WALFORD, JANICE LEA	Bridgeport
WALKER, DIANA SUE	Danville
†WALKER, MICKIE JO HOPPER	Charleston
†WALLER, MARTHA ANN	Kansas
WARD, PATRICIA JO	Sullivan
WATSON, JOANNE LYNN	Momence
WAX, BECKY JEANNE SPANGLER	Charleston
WEST, JAMES THOMAS	Charleston
WHITAKER, CAROL LORAINÉ	Neoga
WHITE, MARY BETH	Peoria
*WHITE, STANLEY D.	Newman
WHITE, TRESSA MERL	Pleasant Plains

*ANDERSON, ALBERT JOSEPH	Gillespie
†ANDERSON, CHARLES GORDON	Urbana
*ARMSWORTH, JAMES SCOTT	Cisco
ASPER, NELSON JAY	Fairbury
AVELLANO, GEORGE PAUL	Midlothian
BACHMAN, GARY LEE	Salem
BALES, MATT EDWARD	Elmhurst
BECKER, ARNOLD E.	Carlyle
BELL, ROBERT ARTHUR	Urbana
*BILBRUCK, ROBERT W.	Palmyra
*BIRDSONG, CARROLL LEE	Mattoon
*BLOHM, NORMAN D.	Brookfield
†BOYER, DAVID LEE	Chrisman
BRINK, GEORGE EDWARD	Granite City
BROOKS, JAMES WILLIAM	Modesto
CANTRELL, SHERRILL L.	Salem
*CATER, ARDEN LEE	Dixon
CHEATWOOD, CHARLES CLIFTON	Lakeland, Florida
†CLAPP, JR., JAMES WILLIAM	Mattoon
COREY, SHARON MARIE	Sycamore
*COX, MARTHA LYNN	Charleston
CRAIG, EARL EUGENE	Noble
†DAVID, JAMES WILLIAM	Lawrenceville
DAVISON, ROBERT MAURICE	Sullivan
*DENOYER, GERALD LEE	Kankakee
DeWERFF, JUDITH HARROLD	Nokomis
†DUMAS, FRANCIS JOHN	Kankakee
EROH, LYLE EUGENE	Charleston
*EVERS, DAVID WILSON	Mattoon
FEATHERLY, BARBARA ANN	Salem
*FICEK, JAMES LOUIS	LaSalle
FISHEL, JOHN VIRGIL	Arcola
†GEBBEN, STEPHEN F.	Effingham
*GERMAN, JOHN CURTIS	Paris
*GILOMEN, JERRY L.	Chicago
†GROVE, STEPHEN DAVIS	Charleston
GUDEMAN, DONALD EUGENE	Rankin
HARSHBARGER, ROBERT S.	Arcola
*HILL, ROBERT STEVEN	Fairfield
HILLARD, ROBERT EARL	Pesotum
*HOLMES, JAMES RICHARD	West Lafayette, Indiana
HOOD, III., HARRY MACLEAN	Park Ridge
HUCKSTADT, JOHN FRANK	Danville
HUNTER, JAMES ALBERT	Oak Park
HUTCHERSON, D. STEPHEN	Edwardsville
†HUTTON, DAVID MICHAEL	Danville
†JAMISON, BILL	Ivesdale
*JOHNSON, TERENCE GEORGE	Springfield
†JONES, JOHN MICHAEL	Carlyle
KABBES, RONALD WILLIAM	Effingham
*KINCHELOE, JOHN H.	Danville
KING, JR., ROBERT MICHAEL	Park Forest
LaGESSE, MICHAEL JOSEPH	Bradley
†LAKING, PHILIP ALAN	Grant Park
*LAM, ALVIN, LESLIE KWING-WAI	Hong Kong, China
†LAPINSKI, ROGER A.	Chicago
LEWIS, JOSEPH LYNN	Cave-in-Rock
LONGTIN, RONALD LEE	Momence
†LOVEJOY, JAMES WALTER	Decatur
†LUDDERS, RONALD EDWARD	Des Plaines
*MAHONEY, ROBERT ALAN	Park Forest
MANSFIELD, MARTIN J.	Lake City

MASTER OF SCIENCE IN EDUCATION

AGNEY, CHARLES L.	Joliet
ALLISON, MARVIN W.	Yale
ANTON, KENNETH OTTO	Oak Lawn
BARNFIELD, LARRY SHERMAN	Browns
BECK, ELIZABETH ANDERSON	Mattoon
BEVERIDGE, JAMES MONROE	Crystal Lake
BIRGE, THOMAS LEE	Champaign
BLEW, SHERRY BETH HACKER	Mattoon
BLIESENER, WILLIS CARL	Mendota
BOERNGEN, LYLE	Effingham
BOLT, MARTHA LYNN	Wheeling
BROOKS, CARL JOE	Homer
BUDDE, LLOYD EDWARD	Effingham
BUFFINGTON, RODNEY HARRIS	Effingham
BURTON, JOHN WARD	Mattoon
CAMPBELL, RICHARD LEE	Mattoon
CARRELL, JR., LAWRENCE	Toledo
CARRELL, RUTH MAE	Toledo
CLARK, NANCY DEE	Albion
COOL, SIDNEY M.	Danville
CRAIG, SANDRA LEONE	Noble
CURRY, FRANK LEROY	New York, New York
CUTLIP, JOHN LAURENCE	Rochelle
DAVIS, KENNETH MARTIN	Trilla
DeSHERLIA, JAYNE LEE	Tacoma, Washington
DUDLEY, JIMMIE EDWARD	Farmington
FINES, GERALD D.	Morrisonville
FLEMING, EMILY SUE	Charleston
FOSTER, NELDA JEAN	Steger
FRAME, KATHRYN NINA EVANS	Hillsboro
GILLESPIE, CHARLES E.	Lawrenceville
GREATHOUSE, JULIA MAXINE PETERSON	Charleston
GRIGSBY, GWENDOLYN JEAN STEFFY	Eau Claire, Wisconsin
HAAS, DAVID LEE	Bath
HAID, DONALD EDWARD	Harvey
HEARRING, GERALD RAY	Flora
HENCKEN, JR., LOUIS VALENTINE	Belleville
HOLLENBECK, SANDRA JOY	Lake Zurich
HOPEK, RICHARD WALTER	Charleston
HOUT, ROBERT G.	Newton
HUCKSTEP, KENNETH GENE	Bethany
HUFF, JAMES H.	Sullivan
HUTTON, MARJORIE T.	Charleston
JACKSON, DAVID R.	Decatur
JAMES, SAM G.	Toledo
JENKINS, ROBERT K.	Flora
JOHNSON, TEDDY E.	Mt. Auburn
JUSTIS, JOEL ALBERT	Chicago
KELLY, MICHAEL PAUL	Kankakee
KIMERY, STEPHEN L.	Mattoon
KLINK, JOHN CURTIS	Olivet
KUETEMEYER, VINCENT FREDERICK	Monticello
MARSHALL, GERALD EARL	Paxton
MARSLAND, EMILY MAE GEPFORD	Mattoon
McPEAK, VAL GENE	Moweaqua
MONK, ERNEST EDWARD	Benson
MONTGOMERY, JOHN EDWARD	Charleston
NICKUM, DIANA M. SHORE	Robinson
NORRIS, GERALD LEE	Robinson
PEAK, ELMER KENTON	Mattoon

BEALS, JANETTE KAY	Sullivan
BEWIE, LAURA MAE	Chester
BIGARD, EUFALA VIOLA BOWSER	Willow Hill
BITTLE, TERRY WAYNE	Wilmington
BLACK, BONNIE FAY	Crete
BOGGS, JUANITA MAY	Effingham
BOHN, SHERYL ELAINE	Broadlands
BRANT, CARL C.	San Luis Obispo, California
BRAZAS, MARY CROOKS	Quincy
BRAZAS, WARREN HENRY	Alsip
BRINK, NANCY SUE WILLIAMS	Granite City
BRYANT, MARSHALL CHRISTOPHER	Hardin
BULLOCK, JOHN ROBERT	Ridgefarm
BUNDY, DALLAS D.	Centralia
BUSS, ALICE KAY	Olney
CAPPELLO, JOHN JAMES	Chicago
CARLSON, ROBERT ARTHUR	Chicago
CARVER, JANICE MURPHY	Charleston
CASH, JOHN EDWARD	Oakland
CHILDS, MARY ANN	Centralia
CLARK, JANET KAYE	Wheeler
CONNELLEY, SHARON JAYNE CENTERS	Charleston
COOLEY, JR., JOHN E.	Effingham
COTTINGHAM, LINDA KAY PAINTER	Charleston
DEAN, KATHRYN G.	Rantoul
DELANEY, JEANNE MARIE	Olney
DEWEY, NANCY RUTH	Naperville
DIETZ, JUDY MARIE	Chicago
*DISBROW, JANET ANN	Warrensburg
DOEHRING, DALE ARNOLD	Champaign
DRAKE, INA RAE	Charleston
DUNGY, JR., CHARLES W.	Carmi
EDWARDS, MARVIN EARL	Danville
EILERS, SALLY JOANN	Pana
ERWIN, CLIFF JOSEPH	Charleston
FEARDAY, KATHRYN ANN	Sigel
FILE, RICHARD S.	Charleston
FOULK, RICHARD WAYNE	Arrowsmith
FULLING, ROBERT NEAL	Palestine
GANLEY, JOHN	Willow Hill
GARBACIAK, DIANE VERONICA	Chicago
GARRARD, RICHARD LAVAUGHN	Palestine
GASTON, WILLIAM TIMOTHY	Centralia
GILMAN, LINDA L.	Decatur
GORMAN, SHEILA CHRISTINE	Nashville
GOWLER, CAROLYN ROSS	Tuscola
GRAFF, MAURIE L.	Charleston
GRAHAM, CHARLES EDWARD	Stonington
GRAY, SHIRLEY ANN	Lockport
GUIDE, JR., JOHN B.	Park Forest
HANEY, DORIS JANE TROEHMEL	Shelbyville
HARRIS, ELAINE KAY GRADY	Danville
HARTIG, ROBERT JOHN	Skokie
HEFLEY, VIVIAN EDNA	Raymond
HENNING, MICHAEL GEORGE	Effingham
HENRY, CHERYL ANN	Mattoon
HICKS, DAVID CHARLES	Kankakee
HICKS, MICHAEL LEE	Decatur
HIGH, JR., FRED LAURENCE	Danville
HOFFMAN, GLENN ALLAN	Martinton
HOSTETLER, VIRGINIA LEE CONNELLY	Shelbyville
HUFFMASTER, BARBARA JO KUMER	Chandler, Arizona

SMELTZER, JR., RICHARD DALE	Springfield
SMITH, BETTY JO	Oakland
SMITH, DONNA LEE	Arcola
SPENCE, SUSAN M.	Effingham
SPILLMAN, JANICE RUTH	Sumner
STACHOWSKI, GLORIA GENE	Chicago
STERCHI, SANDRA SUE	Dundas
STOVALL, MILDRED IRENE THOMAS	Shelbyville
STRONG, THOMAS EDWARD	Mattoon
SUTHERLAND, PATRICIA RUTH SWEARINGEN	Toledo
SYNDERGAARD, MARY KAY	Charleston
TENNIS, SALLY BYRNE	Olney
THUDIUM, KATHERINE BECK HALL	Charleston
TOWSON, JOHN FREDRIC	Blue Mound
TRAVIS, FRANCES H.	Chrisman
VanWINKLE, BETTY JEAN	Edwardsville
VIRUS, SALLY RAE	Villa Park
WAIT, JAN LEE	Pierson Station
WEBB, BARBARA ANN	Springfield
WEGER, VERA MAE FORD	Flat Rock
WEISE, ROBERT WILLIAM	Edwardsville
WELLER, J. MICHAEL	Ramsey
WIDAMAN, CHARLES FORREST	Danville
WILLETT, LEE L.	Decatur
WILLIAMS, SUSAN ELIZABETH	Danville
WILLIAMSON, GARRY DEAN	Flora
WINGLE, JOHN MICHAEL	Longview
WIRTH, LEROY H.	Mt. Carmel
YODER, SARAH ANN	Arthur
ZABKA, KATHERYN LEE	Charleston
ZINDEL, DAVID LEON	Moweaqua

Men: 71 Women: 93 Total: 164

BACHELOR OF SCIENCE

BLASKO, MARY ANN	Springfield
BOWMAN, GARY JOSEPH	Paris
COFFEY, RICHARD LYMAN	Kansas
EDWARDS, FRANK LEO	Alvin
GOSSETT, JOHN DAVID	Mattoon
HARNESS, HENRY OWEN	Olney
HOUT, JR., CHESTER WILLIAM	Claremont
MILLS, EDWARD EUGENE	Vandalia
PULLEN, WAYNE ELWIN	Charleston
QUILL, GORDON F.	Champaign
REVALEE, LARRY EUGENE	Casey
SCHNIER, JOHN FREDERICK	Chicago
WARNING, DARLENE C.	Oak Forest
WIESSING, LEO THOMAS	Greenup
WILSON, RICHARD EUGENE	Charleston

Men: 13 Women: 2 Total: 15

BACHELOR OF SCIENCE IN BUSINESS

BRONNER, RONALD RAYMOND	Berwyn
BROWN, RONALD L.	Champaign
BRUMITT, JERRY DALE	Kankakee
CHARLESTON, CHARLES JOSEPH	Charleston
CUTRIGHT, GEORGE L.	Toledo

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