

'65

BULLETIN

EASTERN
ILLINOIS
UNIVERSITY

CHARLESTON

THE STUDENT'S RESPONSIBILITY

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

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

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

Eastern Illinois University Bulletin

NO. 256

JULY, 1965



66th YEAR

ACADEMIC RECORD 1964-65 SESSIONS

ANNOUNCEMENTS FOR 1965-66 SESSIONS

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University Calendar 1965-1966

FALL QUARTER, 1965

Monday, September 6.....	Parents Convocation
Tuesday, September 7.....	Registration Day
Wednesday, September 8.....	Classes Begin
Saturday, October 23.....	Homecoming
Friday, Saturday, Monday, Tuesday, November 19, 20, 22, 23.....	Examinations
Wednesday, November 24.....	Quarter Closes

WINTER QUARTER, 1965-66

Tuesday, November 30.....	Registration
Wednesday, December 1.....	Classes Begin
Friday, December 17 (6:00 p.m.)	Christmas Vacation Begins
Monday, January 3	Classes Resume
Tuesday, February 15	Constitution Examination
Friday, Saturday, Monday, Tuesday, February 25, 26, 28, March 1	Examinations
Wednesday, March 2.....	Quarter Closes

SPRING QUARTER, 1966

Wednesday, March 9.....	Registration
Thursday, March 10.....	Classes Begin
Thursday, March 31.....	Last Date—Application for Graduation
Tuesday, April 5.....	Constitution Examination
Friday, April 8.....	Good Friday
Monday, May 2.....	Last Date—Application for Certificate of Entitlement
Sunday, May 22.....	Commencement
Saturday, Monday, Tuesday, Wednesday, May 21, 23, 24, 25.....	Examinations
Thursday, May 26.....	Quarter Closes

SUMMER QUARTER, 1966

Monday, June 6.....	Registration
Tuesday, June 7.....	Classes Begin
Monday, June 20.....	Final Registration—Graduate Session
Thursday, June 30	Last Date—Application for Graduation
Monday, July 4.....	Independence Day
Friday, July 15.....	Last Date—Application for Certificate of Entitlement
Tuesday, July 19.....	Constitution Examination
Wednesday, Thursday, Friday, Saturday, August 10, 11, 12, 13.....	Examinations
Thursday, August 11	Commencement
Monday, August 15.....	Quarter Closes

The Teachers College Board



APPOINTED MEMBERS

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ROYAL A. STIPES, JR., Champaign.....	1959-65
MORTON H. HOLLINGSWORTH, Joliet.....	1960-65
NOBLE J. PUFFER, Chicago.....	1961-67
WILLIAM E. McBRIDE, Chicago.....	1961-67
PAUL STONE, Sullivan.....	1961-67
J. BON HARTLINE, Anna.....	1963-69
ARTHUR R. HIGGINS, Quincy.....	1963-69
W. I. TAYLOR, Canton.....	1963-69



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RAY PAGE

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JAMES A. RONAN

Director, Department of Finance, Springfield



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FREDERICK H. McKELVEY, *Executive Officer*, Springfield

Eastern Illinois University is governed by the Teachers College Board. The Board consists of nine members appointed by the Governor and two ex officio members designated by law.

FACULTY

Eastern Illinois University Charleston



FACULTY 1964-65



(Date of joining staff in parenthesis)

(Asterisk (*) indicates head of the department)

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LESLIE ANDRE, M.A.L.S. *Instructor*

Pol. Sc.D., Royal Hungarian Franz-Josef University, 1940; M.A.L.S., Western Michigan University, 1962. (1962)

RICHARD W. LAWSON, M.S.L.S. *Instructor*

B.S.Ed., Clarion State College, 1954; M.S.L.S., Western Reserve University, 1958. (1964)

DONALD SWOPE, M.S. *Instructor*

B.A., Gettysburg College, 1949; M.S., Columbia University, 1954. (1964)

EMERITUS FACULTY

ROBERT G. BUZZARD, Ph.D.....	<i>President Emeritus</i>
CHARLES H. COLEMAN, Ph.D.....	<i>Professor Emeritus</i>
KEVIN GUINAGH, Ph.D.....	<i>Professor Emeritus</i>
EDITH C. HAIGHT, Ph.D.....	<i>Professor Emeritus</i>
SADIE O. MORRIS, Ph.D.....	<i>Professor Emeritus</i>
HANS C. OLSEN, Ph.D.....	<i>Professor Emeritus</i>
EMMA REINHARDT, Ph.D.....	<i>Professor Emeritus</i>
RUTH SCHMALHAUSEN, Ed. D.....	<i>Professor Emeritus</i>
ERNEST L. STOVER, Ph.D.....	<i>Professor Emeritus</i>
MARY J. BOOTH, B.L.S., Litt.D. ¹	<i>Associate Professor and Librarian Emeritus</i>
MYRTLE ARNOLD, A.M....	<i>Assistant Professor Emeritus</i>
RUTH CARMAN, M.A.....	<i>Assistant Professor Emeritus</i>
GILBERT T. CARSON, A.M....	<i>Assistant Professor Emeritus</i>
LEAH STEVENS CASTLE, S.M.....	<i>Assistant Professor Emeritus</i>
LENA B. ELLINGTON, A.M....	<i>Assistant Professor Emeritus</i>
HARRIET LOVE HERSHEY, M.S.....	<i>Assistant Professor Emeritus</i>
RUTH HOSTETLER, A.M....	<i>Assistant Professor Emeritus</i>
JESSIE M. HUNTER, M.A....	<i>Assistant Professor Emeritus</i>
FLORENCE E. REID, M.A....	<i>Assistant Professor Emeritus</i>
NANNILEE SAUNDERS, M.A.....	<i>Assistant Professor Emeritus</i>
ETHEL HANSON STOVER, A.M.....	<i>Assistant Professor Emeritus</i>
BLANCHE C. THOMAS.....	<i>Registrar Emeritus</i>
RAYMOND R. GREGG, A.M.....	<i>Director of Business Services Emeritus</i>

DISABILITY LEAVE

BRYAN HEISE, Ph.D.....	<i>Professor</i>
J. GLENN ROSS, Ph.D.....	<i>Professor</i>
ICA MARKS, M.S.....	<i>Assistant Professor</i>
ROBERTA L. POOS, A.M.....	<i>Assistant Professor</i>

FACULTY ASSISTANTS

AUDREY FEDOR, A.B.....	<i>Library</i>
MARY B. SHULL, M.M.....	<i>Women's Physical Education</i>
ADRIANNE THORNBURGH, A.B.....	<i>Library</i>
CHARLES TUCKER, B.S. in Ed.....	<i>Chemistry</i>

¹ Deceased January 2, 1965

GRADUATE ASSISTANTS

JAMES R. ANDREWS, B.S. in Ed.....	<i>University Union</i>
ROGER J. BARRY, B.S. in Ed.....	<i>Financial Aids</i>
F. DALE BROWN, B.S. in Ed.....	<i>Audio-Visual Center</i>
WILLIAM R. BORGLUND, B.S. in Ed. ¹	<i>Residence Hall</i>
SEUNGHYUN CHOI, B.Mus.....	<i>Music</i>
PATRICK F. COBURN, B.A. ²	<i>Residence Hall</i>
CHARLES M. DAVID, B.S.....	<i>Student Publications</i>
JOHN S. DEYOE, B.S. in Ed.....	<i>Art</i>
DAVID G. EATOCK, B.S. in Ed.....	<i>Residence Hall</i>
CAROL G. EKMAN, B.S. in Ed.....	<i>Art</i>
ROBERT G. FERREN, B.S. in Ed.....	<i>Geography</i>
LEO W. FEVER, B.S. in Ed. ³	<i>Counseling Center</i>
RONALD D. FRITCHLEY, B.S. in Ed....	<i>Audio-Visual Center</i>
DUANE O. GEIKEN, B.S. in Ed. ⁴	<i>Residence Hall</i>
JOE GLASSFORD, B.S.....	<i>Residence Hall</i>
HOLLY M. GLOSSER, B.S. in Ed.....	<i>Speech</i>
ANNA L. GOLDSTEIN, B.S. in Ed.....	<i>Faculty for Professional Education</i>
GEROME M. GUDAUSKAS, B.S. in Ed.....	<i>Security Office</i>
GARY L. GUELDER, B.S. in Ed.....	<i>Business</i>
VIRGINIA S. HAGEBUSH, B.S. in Ed....	<i>Laboratory School</i>
WILLIAM M. HAMILTON, B.S. in Ed....	<i>Physical Education for Men</i>
IRMA M. HAYS, B.S. in Ed.....	<i>Faculty for Professional Education</i>
GARY L. HOWREY, B.S. in Ed.....	<i>Laboratory School</i>
EARL W. JEFFERS, B.S. in Ed.....	<i>Audio-Visual Center</i>
WALTER R. JONES, JR., B.S. in Ed....	<i>Laboratory School</i>
ADRIAN J. KAMM, B.S. in Ed.....	<i>Testing Services</i>
PHILLIP KENDRICK, B.S. in Ed.....	<i>Library</i>
DOUGLAS J. KOERTGE, B.S. in Ed.....	<i>Speech</i>
FRANCES HO-MEI LIN, B.S.....	<i>Zoology</i>
DENNIS L. MATTIX, B.S.....	<i>Physical Education for Men</i>
MARY M. MCKEE, B.S. in Ed. ⁵	<i>Reading Clinic</i>

¹ For the spring quarter only.² Beginning winter quarter.³ Beginning spring quarter.⁴ Resigned February 28, 1965.⁵ For winter quarter only.

ARTHUR S. MIKRUT, B.S. in Ed.....	<i>Library</i>
JAMES W. MIZENER, B.S. in Ed.....	<i>Industrial Arts</i>
SANDRA K. MOORE, B.S. in Ed. ⁶	<i>Reading Clinic</i>
RICHARD E. PARKER, B.S. in Ed....	<i>Physical Education for Men</i>
EVERETT W. POTTER, B.S. in Ed.....	<i>Botany</i>
ROGER S. PSCHERER, B.S.....	<i>Residence Hall</i>
KENTON L. RIPPETOE, B.S....	<i>Physical Education for Men</i>
THEODORE V. ROHR, B.S. in Ed....	<i>Audio-Visual Center</i>
A. DENNIS SPARGER, B.S. in Ed.....	<i>Music</i>
JUDITH K. VOORHEES, B.S. in Ed.....	<i>Music</i>
LARRY D. VOORHEES, B.S. in Ed.....	<i>Music</i>
STEPHEN I. WARBLE, B.S. in Ed.....	<i>Music</i>
ALAN W. WEITH, B.S.....	<i>Physical Education for Men</i>
STANLEY F. WIGGAM, B.S. in Ed....	<i>Physical Education for Men</i>
JOSEPH J. WUNAR, B.S. in Ed.....	<i>University Food Service</i>
BART W. ZELLER, B.S. in Ed. ⁷	<i>Counseling Center</i>

⁶ Resigned November 30, 1964.

⁷ Resigned February 28, 1965.

Cooperating Teachers and Administrators
Eastern Illinois University — Student Teaching Program
School Year, 1964-65

ABL HIGH SCHOOL (BROADLANDS)

Fred O. Bohn, M.S.,
Superintendent
Clyde McKinney, M.S.

David L. McQueen, M.S.,
Principal

ARCOLA HIGH SCHOOL

Leon R. Sitter, Adv. Degree,
Superintendent
Carroll Dunn, M.S.

Walter Forsyth, M.S.,
Principal

ARTHUR HIGH SCHOOL

R. R. Wilson, M.S., Superin-
tendent & Principal, M.S.

Francis Baker, M.S.
Madeline Smith, M.A.

ATWOOD HIGH SCHOOL

Fred Boll, Superintendent,
M.S.

Don Magee, Principal, M.S.
Lois Shonkwiler, A.B.

CASEY COMMUNITY UNIT HIGH SCHOOL

Fred A. Dale, M.S.,
Superintendent

Violet Davis, B.S.
Ralph Fitch, M.A.

William J. Back, M.S., Principal

Ava Tingley, M.A.

CHAMPAIGN SENIOR HIGH SCHOOL

E. H. Mellon, Superintendent,
Ed.D.

Clint R. Kelly, Principal, M.S.
Fred Attebury, M.A.

FRANKLIN ELEMENTARY (CHARLESTON)

Charles R. Dintelman, M.S.,
Superintendent
Wayne Seeley, B.S., Principal

Stella Boldrey, M.S.

JEFFERSON SCHOOL (CHARLESTON)

John A. Dively, M.Ed.,
Principal
Evelyn Ambrose, B.S.
Charlotte Rhoden, B.S.

Wanda Ruyle, M.Ed.
Donald Decker, M.S.
John Daum, M.M.

LINCOLN ELEMENTARY (CHARLESTON)

Wayne Seeley, B.S., Principal Stella Foreman, M.S.
 Elizabeth Alter, M.S.

CHARLESTON COMMUNITY UNIT HIGH SCHOOL

Marvin Smith, M.Ed., Principal	Betty Johnson, B.Ed.
Mervin Baker, M.S.	Willa Lane, M.S.
John Balgenorth, B.S.	Iris Peterka, B.A.
Eloise Buffenmeyer, B.S.	Pierce Pickens, M.S.
Ralph Coleman, M.M.	Glendora Plath, B.S.
Donald Decker, M.S.	Lillian Robertson, B.S.
Paul Foreman, M.S.	Norman Strader, M.S.
Viola Hallock, M.S.	Harry White, M.S.
Harold Hankins, B.S.	Nellie Wiseman, B.S.
Mary Hoffman, M.S.	Frank Wood, B.S.

CHRISMAN HIGH SCHOOL

Cecil Smith, Superintendent, M.S.	Thomas Emery, M.A.
Marvin McDonald, Principal, M.S.	Arthur Hagener, B.S.
	William Hill, M.S.

E. PARK JUNIOR HIGH (DANVILLE)

David Radcliffe, Acting Superintendent, M.S.	James O. Yeazel, M.S., Principal
	Elizabeth Norwood, M.Ed.

N. RIDGE JUNIOR HIGH (DANVILLE)

Roger B. Marcum, Principal, M.S.	Iris Gillis, M.S.
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DANVILLE COMMUNITY CONSOLIDATED HIGH SCHOOL

E. D. Milhon, M.S., Principal	Charlene Galloway, M.S.
Gladys Beatty, M.A.	Robert Griggs, M.S.
Paul Boothe, M.S.	Duane Hall, M.Ed.
Billie Byers, M.Ed.	Helen Hofmann, A.M.
Loretta Dugas, M.S.	Barbara Todd, B.Ed.
Helen Freeman, M.S.	

DECATUR PUBLIC SCHOOLS

Lester J. Grant, M.A., Superintendent	Mary Jane Eshleman, M.S.
Norman Gore, M.A., Assistant Superintendent	Marilyn Gaines, M.S.

ROOSEVELT JUNIOR HIGH (DECATUR)

Carl R. Clapp, M.A., Principal Lucille Hoendorf, B.S.

EISENHOWER HIGH SCHOOL (DECATUR)

Murvil Barnes, M.S., Principal	Wilford Hudson, M.A.
Emily Abbott, M.S.	Robert Krebs, M.A.T.
John Alexander, M.A.	Katheryn Minto, M.A.
Audrey Bower, M.A.	Helen Piggott, B.A.
Marilyn Casorotti, M.S.	Joe Russell, M.A.
Charles Clark, M.S.	Robert Scherer, M.S.
Donald Diller, M.Ed.	Donald Schwalbe, M.S.
H. L. Ferris, M.S.	Otis Vaughan, M.S.
Clete Hinton, M.A.	Eugene Young, M.A.
William R. Houser, B.S.	

LAKEVIEW HIGH SCHOOL (DECATUR)

William W. Fromm, M.A., Principal	Edward Meyer, M.S.
Ron Abel, M.A.	L. K. Philbrook, M.A.
David Brown, B.S.	Joan Smith, B.S.
Charles Heath, M.A.	Paul Wertz, B.S.
Allen Ligon, M.A.	Ron Wisher, B.S.

MACARTHUR HIGH SCHOOL (DECATUR)

Lyle K. Musick, M. A., Principal	William Moutray, M.Ed.
Dionne Carlson, B.S.	Bobby Neville, M.S.
Raymond DeMoulin, M.Ed.	Lawrence Rueff, M.S.
Robert Henderson, M.A.	Mabel Rutherford, M.A.
Geraldine Hodson, M.A.	Robert Turner, M.A.
Kenneth Lanman, M.S.	Loy Wattles, M.A.

STEPHEN DECATUR HIGH SCHOOL (DECATUR)

Edward A. Martin, M.A., Principal	Doris Hudson, B.S.
Justine Bleeks, M.A.	F. Jack Kenny, B.S.
Kenneth Bruce, B.S.	Edna Meadows, M.A.
Olive Hewett, A.B.	Vern Thistlethwaite, B.S.
	Marjorie Wilson, M.A.

CENTRAL SCHOOL (EFFINGHAM)

Raymond H. Lane, M.A., Superintendent	Ross W. Phillips, M.S., Principal
	Ruth Brisenden, B.S.

EFFINGHAM COMMUNITY UNIT HIGH SCHOOL

Harold E. Voyles, M.S.,
Principal
B. Brad Arney, M.S.
Charles Evans, B.A.
Patricia Frese, B.S.

Joe Green, M.A.
Monte Groothuis, B.S.
Jack Klosterman, B.S.
William Morgan, M.A.

HUTSONVILLE HIGH SCHOOL

Max Anderson, Superintendent, M.S.
Ernest Dolson, Principal, M.S.
Virginia Newlin, M.A.

KANSAS HIGH SCHOOL

Eldred Walton, M.S.,
Superintendent
Robert Evans, M.S., Principal
Tressa Bennett, M.S.

Howard Eades, B.S.
Robert Evans, M.S.
Janet Holley, B.S.

LAWRENCEVILLE COMMUNITY HIGH SCHOOL

Hugh Dollahan, M.A.
Superintendent & Principal
Marlena Baldridge, M.S.
Wallace Brown, B.S.
Charles Gillespie, B.S.
Kenneth Hardway, B.S.
Dan Hockman, M.S.
Arthur Hortin, M.A.

Dean Lionberger, M.S.
Robert McCarty, M.S.
Paula Nossett, M.S.
Kenneth Pritchett, M.S.
Dorothy Provines, B.S.
Samuel Slagel, M.S.
Robert Strange, M.S.

LITCHFIELD HIGH SCHOOL

W. F. Whitnel, Superintendent, M.S.
Curtis Hamilton, Principal, M.S.
Kenneth Robley, M.Ed.

LOVINGTON HIGH SCHOOL

A. E. Best, Superintendent,
M.S.
John Zancha, Principal, M.S.

Lawrence Allen, M.S.
Grace Eskridge, M.S.
Ella Stephenson, B.S.

MARSHALL COMMUNITY UNIT HIGH SCHOOL

Charles A. Bush, M.S.
Superintendent
Don McNary, Principal, M.S.
Charles Crumrin, M.S.
Wilma Elliott, M.S.
Robert Graham, B.S.

Jackie Legan, M.A.
Ralph Marshall, M.A.
Robert F. Morris, M.S.
Priscilla Wieck, M.A.
William Wieck, B. S.

BENNETT SCHOOL (MATTOON)

Peter F. Genta, Principal, M.S. Opal Naab, M.Ed.
Phyllis Lape, B.S.

HAWTHORNE SCHOOL (MATTOON)

Howard Greer, Principal, M.S. Virginia Piland, M.S.

LINCOLN SCHOOL (MATTOON)

Vaughn Woodall, Principal, M.S. Ruth Gilbert, M.S.
Thomas Ulmer, M.S.

LOWELL SCHOOL (MATTOON)

Ralph Ohm, Principal, M.S. Lois Baker, M.S.

WASHINGTON SCHOOL (MATTOON)

Andrew Zupka, Principal, M.S. Dorothy Moran, M.S.
Sue Scott, M.S.

CENTRAL JUNIOR HIGH (MATTOON)

Virgil H. Judge, M.A., Robert L. Cavitt, M.S.
Superintendent Principal
Marianne Doyle, B.S. Charles Hayes, B.A.

JEFFERSON JUNIOR HIGH SCHOOL (MATTOON)

Fred Hash, Adv. Cert. in Ed., Helen Monroe, B.S.
Principal John Morris, B.S.
William Brandvold, M.S. Doris Rhodes, B.S.
Edna Kizer, B.S. Carolyn Rockabrand, M.A.
Bert Landes, B.S. Margaret Podesta, M.E.
Keith Lape, M.S.

MATTOON COMMUNITY UNIT HIGH SCHOOL

Roy E. Sheppard, Adv. Cert. Howard Johnson, M.S.
in Ed., Principal Charles Karr, B.S.
Richard Amstutz, B.S. Harold Kottwitz, M.S.
Bonnie Barnett, B.S. Edward Lash, M.S.
Don Batts, B.A. Rosemary McCowen, M.S.
Florine Bowman, M.A. Howard Nelms, M.S.
Dorothy Cooper, B.S. Donald Pyle, B.Ed.
Charles Crites, M.S. Katheryn Robertson, M.S.
Harry Gaines, B.S. Robert Sink, B.S.E.
Carrol Farmer, M.S. Emily Smith, M.A.
Don Grewell, M.S. Walter Storm, M.S.
Velta Goodfellow, A.B. John Swick, B.S.
Obed Henderson, M.S. Duane Welton, B.S.

MONTICELLO COMMUNITY UNIT HIGH SCHOOL

Dwight E. Wilkey, M.S.,
Superintendent

Gertrude Clapper, B.Ed.
Tom Young, M.S.

Donald L. Pratt, M.S., Principal

MOWEAQUA COMMUNITY HIGH SCHOOL

M. J. Corby, M.S.,
Superintendent

Thomas Boyd, M.S.
Mary Rutger, M.Ed.

M. W. Deibert, M.S., Principal

NEOGA HIGH SCHOOL

Louis K. Voris, M.S.,
Superintendent

Howard Louthan, B.S.
John Luallen, B.S.

Ralph White, M.S., Principal

Virginia Parrett, B.S.

Richard Ellinger, M.S.

Agnes Voris, B.S.

NEWTON COMMUNITY HIGH SCHOOL

Hewey Tweedy,
Superintendent & Principal,
M.S.

Marie Green, M.A.
Glenn Henderson, B.A.

Dale Robinson, M.S.

Jewell Bauman, B.S.

Ariel Stuckey, B.S.

Frank Chizevsky, A.B.

Maurice Walworth, M.A.

James M. Doerr, M.A.

Virginia Watkins, B.S.

Norma Eaton, L.L.B.

Warren Wiman, B.S.

Albert Fehrenbacher, B.S.

OAKLAND GRADE SCHOOL

Woodrow Norris, Principal,
M.S.

Ruth Hawkins, B.S.

OAKLAND HIGH SCHOOL

Charles Joley, Superintendent, M.S.

John Shoot, Principal, B.S.

Anita Brown, B.S.

OBLONG HIGH SCHOOL

H. R. Herink,
Superintendent & Principal,
M.S.

Carmen Koertge, A.B.

Charles Price, M.S.

Emily Price, M.A.

Paul Highsmith, B.S.

CENTRAL ELEMENTARY (OLNEY)

Leslie E. Purdy, M.A.,
Superintendent

Thurl Williamson, M.S.,
Principal

EAST CHERRY ELEMENTARY (OLNEY)

Leo Galbreath, B.S., Principal Leo Galbreath, B.S.

NORTH SILVER ELEMENTARY (OLNEY)

James Rue, M.Ed., Principal James Rue, M.Ed.

EAST RICHLAND HIGH SCHOOL (OLNEY)

Gail Lathrop, M.S., Principal	James A. McWilliams, M.S.
Robert W. Akes, M.S.	William Millsbaugh, M.S.
John Bower, M.S.	Doris Mounts, B.A.
Mary L. Downen, M.S.	Marshall Provines, M.S.
Frank Godeke, M.A.	Ilene Ridgely, M.S.
Margaret Griffin, M.A.	John Rose, B.Ed.
Ronald Herrin, M.S.	John Scanavino, M.S.
Dolly McFarland, M.S.	Arrah Shumaker, M.S.

PALESTINE HIGH SCHOOL

Randall Highsmith, O. Poynter, M.A.
Superintendent, M.S.

PANA HIGH SCHOOL

Carrol Lowe, Superintendent, M.S.	Eleanor Burkorn, M.S.
	Alta Meier, M.A.
Bruce Wieneke, Principal, M.S.	Joseph Szabo, M.S.
Vernon Anderson, M.S.	

PARIS HIGH SCHOOL

John Stabler, M.S., Superintendent	Louise Honnald, B.Ed.
Joe Doglio, M.S., Principal	Charles Johnson, M.S.
Jeanette Baker, B.S.	Norma Kerrick, M.S.
Anna Brock, B.S.	William Neibch, M.S.
John Eggleston, M.S.	Larry Pohlman, M.S.
Angela Hahn, B.S.	Mary Riedell, B.A.
	Carrie Shutzbaugh, A.B.

CRESTWOOD SCHOOL (PARIS)

Paul Keehner, Luella Judy, B. S.
Superintendent & Principal,
M.S.

ROBINSON COMMUNITY UNIT HIGH SCHOOL

Forest H. Shoulders, M.S., Superintendent	Ronald Leathers, B.S.
Carl E. House, M.S., Principal	Shirley Marsh, B.S.
	Cletis Underwood, M.S.E.

RIDGEFARM HIGH SCHOOL

Pearl Parke, M. S.,
Superintendent & Principal

Thomas Jenkins, M.S.

SHELBYVILLE COMMUNITY UNIT HIGH SCHOOL

J. C. Deaton, M.S.,
Superintendent

Merle Chapman, M.S.

Henry Hornbeck, M.S.,
Principal

Alice Crouch, M.S.

James Finical, M.S.

Leonard Burt, M.S.

John Middlesworth, M.S.

Mervin W. Smart, M.S.

LOWE GRADE SCHOOL (SULLIVAN)

Dennis Cougill, M.A., Principal

Mildred Vice, M.S.

Ogreata Morgan, M.S.

SULLIVAN COMMUNITY UNIT HIGH SCHOOL

John Coil, M.S., Principal

Robert Ozier, B.S.

Robert Calvin, B.S.

Douglas Schimp, M.S.

Ruth Gammill, B.S.

Lynn Swango, M.S.

Donald Garren, M.S.

Ernie Waren, M.S.

J. Harold Jones, M.A.

TAYLORVILLE COMMUNITY UNIT HIGH SCHOOL

Forest L. DeWeese, M.S.,
Superintendent

Leon McPherson, M.A.

Herbert A. Schotz, M.S.

William Powell, M.A., Principal

Ada Songer, M.S.

Ferrell Bryant, A.B.

Assunta Teodori, M.A.

Larry Freidricks, B.S.

John Wilson, M.S.

CUMBERLAND UNIT HIGH SCHOOL (TOLEDO)

Merrill O. Moore, M.S.,
Superintendent

Sara Buchanan, M.S.

Carolyn Glasson, M.A.

Harold E. Garner, M.S.,
Principal

Emily Manuell, B.S.

William Waldrip, M.S.

UNITY SENIOR HIGH SCHOOL (TOLONO)

Kenneth Roelling, Ed.M.,
Superintendent

Robert Aimone, Ed.M.

John Fitch, B.A.

Clovis Wallis, Ed.M., Principal

Oscar Hicks, M.Ed.

TUSCOLA COMMUNITY UNIT HIGH SCHOOL

L. H. Mann, M.S., Superintendent	William Butkovich, M.S.
Jack Robertson, M.S., Principal	Dorothy Deer, A.B.
Robert Arnold, B.S.	Dorothy Lionberger, B.S.
Darrell Brown, B.S.	Warren Lionberger, M.Ed.
	Alberta Magnusson, A.M.
	G. E. Maloney, B.S.

VANDALIA HIGH SCHOOL

G. V. Blythe, M.S., Superintendent	Russell Hewitt, M.S.
William E. Wells, M.A., Principal	William Rademacher, M.A.
Helen Barr, M.A.	Ronald Robinson, M.A.
	Donald Schnake, B.S.
	Donald Snyder, B.S.

VILLA GROVE HIGH SCHOOL

Gerald Gaines, M.S., Superintendent	Glen Hardin, M.S.
Bill Crum, M.S., Principal	Billy Heyduck, M.Ed.
James Coleman, M.Ed.	Wayne Raeske, M.Ed.
Russell Ghare, M.S.	Kenneth Tucker, M.S.
	Leslie Wolfe, M.S.

WINDSOR COMMUNITY UNIT HIGH SCHOOL

J. Russell Curry, M.S., Superintendent	Nona Belle Keller, B.Ed.
Orris A. Seng, M.S., Principal	Emily Marsland, B.S.
Robert Buchanan, M.S.	Glen Thompson, M.Ed.

VILLA GROVE ELEMENTARY

Gerald G. Gaines, M.S., Superintendent	Isabelle Jones, M.Ed.
Albert J. Wiman, M.S., Principal	Bessie Maxey, M.A.

I. General Information

FUNCTION

All programs of instruction at Eastern Illinois University are designed to help young people become educated persons. Curricula leading to the B.S. in Education degree and the M.S. in Education degree are provided for the preparation of teachers. Curricula leading to the B.S., B.A., and M.A. degrees provide a liberal arts education suitable for persons preparing for a variety of professions and occupations. Several preprofessional programs of varying length are offered for students who wish to attend Eastern before entering a professional or technical program elsewhere.

RATING

Eastern Illinois University is a member of the American Association of Colleges for Teacher Education and is accredited by the National Council for Accreditation of Teacher Education for the preparation of elementary teachers, secondary teachers, and school service personnel. It has been an accredited college in the North Central Association of Colleges and Secondary Schools since 1915. It is an institutional member of the American Council of Education.

LOCATION

Charleston, county seat of Coles County, is located in east-central Illinois on highways 130 and 16. Highway 16 (four lanes) connects Charleston with Mattoon. Ozark Airlines furnish flights daily to and from Chicago and St. Louis from Coles County airport. The city has a population of 10,500.

HISTORY

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

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

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

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

In 1954 the Teachers College Board authorized curricula leading to the degrees B.A. and B.S. without preparation for teaching. The first such degree under this authorization was conferred in June, 1955.

In 1961 the Teachers College Board approved the establishment of curricula leading to the degrees of Master of Arts and Master of Science.

BUILDING AND GROUNDS

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

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

Livingston C. Lord Administration Building (Old Main). The main building houses administrative offices, classrooms for the School of Business, and the English, foreign language and mathematics departments, and the library reserve room.

Pemberton Hall. First occupied in 1909 with ninety-three women, an addition to house 111 women was completed in 1962.

Francis G. Blair Hall. This building is occupied by the Faculty for Professional Education, the departments of history and social science and the audio-visual center.

Practical Arts Building. This building houses departments of industrial arts and home economics.

Charles Philip Lantz Gymnasium. This building contains a men's gymnasium with bleacher capacity of approximately two thousand, a women's gymnasium, classrooms, and rooms for corrective gymnastics and the dance.

Science Building. Completed in 1939 and remodeled in 1964, this building contains classrooms and laboratories for the departments of chemistry, geography, and physics.

Life Science Building. Completed in 1963, this building contains the departments of botany and zoology. An added wing houses the health education department and the Security offices.

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

Lincoln Hall and Douglas Hall. Housing and boarding 160 men students each, these residence halls were opened in September, 1952.

North House and South House. North House and South House are two ranch-type structures planned for demonstrating home management as a part of the home economics curriculum.

Robert G. Buzzard Laboratory School. A \$2,000,000 campus laboratory school for kindergarten through grade nine, completed in 1958, the building is named for the second president of the University.

University Union. The University Union contains offices, a cafeteria, the Panthers' Lair Snack Bar, a ballroom, lounges, and recreation facilities.

Ford, McKinney, and Weller Halls. These residence halls, completed in 1958, house 450 women students.

University Apartments. Living facilities for married students are provided by a housing unit of sixty apartments completed in 1959 located on Terrace Lane at the south edge of the campus.

Fine Arts Center. This building, housing the School of Music, and the Departments of Speech and Art, was completed in 1959. It contains a "little theatre," numerous practice and rehearsal rooms for music, and studios and laboratories for the art and speech departments.

Andrews Hall. This hall houses 480 women, and was opened in 1964.

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

Buzzard House. The former home of Eastern's second president houses the Assistant Dean of Students and the Director of Financial Aids.

ORGANIZATION OF THE UNIVERSITY

Eastern Illinois University is one of four state universities under the general jurisdiction of the Teachers College Board of Illinois. The internal organization at Eastern consists of two major divisions—instruction and administration.

Included within the instructional division are the instructional services (library, audio-visual center) and the various instructional units. Major instructional units are the College of Letters and Science, School of Elementary and Junior High School Teaching, School of Business, School of Music, School of Health and Physical Education, Graduate School, and the Faculty for Professional Education. Approval has been given for the establishment, within the next few years, of a School of Industrial Arts and Technology, and a School of Home Economics, both from presently unaffiliated departments. The administrative division includes student academic services, student personnel services, and business services.

DIVISION OF THE YEAR

The regular academic year consists of three quarters which cover a period of 36 weeks. In addition, there is a summer quarter of ten weeks duration and a graduate term of eight weeks. Field study courses and off-campus workshops of three weeks duration are held at various times.

II. Student Life and Activities

LIVING ACCOMMODATIONS

Single students under the age of 21 are required to live in university-registered housing except when living at home or with relatives, or when special written permission has been secured from the Dean of Women or Dean of Men. It is understood that when a student contracts for accommodations in a residence hall, university apartment, or registered housing, he agrees to comply with the rules and regulations governing those living units as well as the rules and regulations for all university students.

Residence Halls. Applications for accommodations in the university residence halls may be made to the Dean of Women or Dean of Men prior to being accepted for admission to the University. Students are encouraged to apply for housing at an early date. Eastern residence halls and the number accommodated are as follows:

WOMEN		MEN	
Andrews Hall	480	Douglas Hall	161
Ford Hall	152	Lincoln Hall	161
McKinney Hall	150	Thomas Hall	438
Pemberton Hall	201		
Weller Hall	152		

Further information relative to cost of room and board and the housing security deposit which must accompany the application may be found on Pages 80 and 81 of this bulletin.

Registered Housing. A registered house is a home in the community which has been approved as meeting the standards set by the University. A list of vacancies in registered housing is maintained in the Offices of the Dean of Women and Dean of Men. The student is responsible for making arrangements with the householder for a room in the community; however, a signed agreement between the householder and student is required by the University.

Married Student Housing. Housing for married students consists of 60 units, located on Terrace Lane at the south end of the campus. The 24 two-room apartments and 36 one and one-half-room apartments are each provided with sofa bed, chair, dinette set, corner tables and other items of efficiency equipment. Electricity, heat, hot water, T.V. antenna outlets, washers, etc. are furnished by the University. To occupy an apartment, a person must be married, living with his family, and enrolled at Eastern.

There are presently under construction twelve one-bedroom apartments and eighteen efficiency apartments. The units should be ready for occupancy late in 1965 or 1966.

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.

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

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

SERVICES TO STUDENTS

Health Service. The Health Service is located in the Clinical Services Building. It renders limited medical and surgical care, supervises the periodic physical examinations, and has general oversight of health conditions of the university community. The staff consists of two physicians, three nurses and a secretary.

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

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

The insurance is available for all four quarters of the year; summer quarter insurance is in force until Registration Day of the fall quarter that follows.

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.

Student Employment. The Director of Financial Aids receives applications for part-time employment and assists students in finding work at the University and in the city. Student employment is contingent upon maintenance of satisfactory academic standing.

Placement Office. Registration or re-registration with the Placement Office is prerequisite to graduation for all degree candidates. The Placement Office seeks to help competent Eastern graduates secure positions for which they are qualified and furnishes prospective employers with pertinent information needed by them in considering applicants. It also maintains a follow-up service through a program of visits and by means of reports from

teachers themselves as well as from supervising officials of schools in which Eastern's graduates have been placed. Placement services are free to students who qualify.

Teacher Placement Services are available to undergraduates who have been in attendance at Eastern for a year, who have been admitted to a teacher education curriculum, and have attained senior status. Eastern graduates who hold a degree other than in education are eligible for teacher placement if requirements for a regular teacher's certificate are met. *Graduate Students* may register for placement if they have attended Eastern for one quarter and have earned 16 quarter hours of graduate credit toward a master's degree. This includes graduate extension courses offered off campus. *Alumni* may re-register by bringing their credentials up to date and paying a fee of \$2.

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

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

In addition to the University reading program, some children, usually selected from the campus elementary school, are accepted for corrective work in reading. Junior, senior, and graduate students taking advanced work in reading obtain practical experience by working with these children under supervision.

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

Counseling Center. The Counseling Center is located in the Clinical Services Building and is staffed by professional educated counselors who assist university students in matters pertaining to vocational choice, personal and social adjustment, and educational development. Limited psychological services are also

available without charge through the university Counseling Center. Special files of occupational and educational information are available for the student who is interested in investigating specific occupational fields.

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

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

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

For detailed information write Dr. Donald A. Rothschild, Director of Testing Services.

The Libraries. Booth Library provides a comprehensive collection of materials for instructional and recreational purposes. It has a total of 130,000 volumes, plus over 4,500 cataloged items in the record music collection and a substantial number of uncataloged pamphlets, pictures and prints. The library is an official depository for federal documents. It receives currently over 1,300 different periodicals. A Browsing Room for general reading is provided; the Music Listening Room, with its store of classical and popular records, is open on regular schedule to students and there are frequent exhibitions of paintings and craft work in the Paul Turner Sargent Art Gallery. The Laboratory School Library, a part of the general university library system, houses a fine collection of materials suitable for the elementary and junior high school levels; besides serving the needs of the Laboratory School, it plays an essential role in the preparation of school librarians. Prospective teachers are urged to familiarize themselves with the books and periodicals in this collection and with its method of operation.

Basic textbooks for university courses are rented to students through the Textbook Library. The 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 also be purchased any time during the quarter with the exception of the first two and the last two weeks of the quarter. Used books are sold to students at a 10 percent discount off the cost price for each time the book has been checked out, as indicated by the record on the book card.

Rented textbooks must be returned in satisfactory condition by a specified time at the end of each quarter, and damage other

than that of ordinary wear must be paid for by the student. Students who note damage in textbooks issued to them must report such condition to the manager of the Textbook Library within the first two weeks or be held liable for the damage. A fine of \$1.00 per book is imposed if the student's record in this library is not clear by the close of the quarter.

Audio-Visual Center. The Audio-Visual Center in Blair Hall operates as an educational service for faculty and students. Audio-visual teaching materials such as films, filmstrips, and recordings are available both from a small on-campus library and from rental sources. Orders for rental films usually take three weeks. Preview services are available on a limited basis. Slides, transparencies, photographic copies, and other graphic materials may be produced for individual instructors. Consultative service is offered to university faculty, prospective teachers, and to schools in the area.

Bookstore. The University Bookstore is located in the Temporary Classroom Building and is owned and operated by the University. It is maintained to enable students to purchase supplies and other equipment needed for laboratory and class work.

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

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

The 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 their fields of specialized interest. No admission fee is charged.

SOCIAL LIFE

In recognition of the value of a wholesome social life as an integral part of college, the development of a broad program of social activities has been encouraged at Eastern. Many of these activities are carried on by campus organizations; others are sponsored by and for the University as a whole.

Student social activities are under the general supervision of the Dean, Student Personnel Services and members of his staff.

New-Student Orientation. Early in each quarter activities are scheduled for acquainting new students with the University. All 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 the new student with the University in order that he may understand its rules and regulations and become aware of the educational, social, and recreational opportunities it provides.

University Union. The University Union, financed by student fees and donations, houses a cafeteria, snack bar, game rooms, ballroom, lounges, and offices for the Director, Director of Food Services, and the Student Senate.

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

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

STUDENT ORGANIZATIONS

Student organizations form the basis for the activity program on Eastern's campus. The Office of the Dean, Student Personnel Services has the responsibility for official university approval of all student organizations after consultation with the Student Senate.

Student organizations are varied so as to provide every student with an opportunity to participate in activities which appeal to his interests.

Student Senate.

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

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

Departmental Clubs.

Accounting Club, Amateur Radio Club, Ahmoweenah Writers, Elementary and Jr. High Men's Club, Botany Club, English Club, French Club, German Club, History Club, Home Economics Club,

Industrial Arts Club, Latin Club, Management Forum, Marketing Club, Mathematics Club, Men's Physical Education Majors Club, Music Educators National Conference, Student Affiliate Section of the American Chemical Society, Student Section of The American Institute of Physics, Pre-Medical Association, Readers' Theatre Guild, Russian Club, Spanish Club, University Council for the United Nations, Women's Physical Education Club, Zoology Seminar.

Music Organizations.

Band, Cecilians, Collegians, Men's Glee Club, Mixed Chorus, Orchestra, Stage Band.

Religious Organizations.

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

Athletic Organizations.

Varsity Club, Women's Athletic Association.

Residence Hall Councils and Residence Hall Association.

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

Service Organizations.

Alpha Phi Omega.

Special Groups.

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

Social Fraternities. The seven fraternities on Eastern's campus are designed for the educational and social development of students. The following fraternities are represented:

Rho Chapter of *Alpha Kappa Lambda*.

Delta Psi Chapter of *Delta Sigma Phi*.

Delta Chapter of *Phi Sigma Epsilon*.

Zeta Gamma Chapter of *Pi Kappa Alpha*.

Beta Gamma Chapter of *Sigma Pi*.

Alpha Alpha Chapter of *Sigma Tau Gamma*.

Gamma Omega Chapter of *Tau Kappa Epsilon*.

Social Sororities. The University has five social sororities. They are:

- Alphi Psi Chapter of *Sigma Sigma Sigma*.
- Gamma Nu Chapter of *Delta Zeta*.
- Gamma Mu Chapter of *Sigma Kappa*.
- Beta Iota Chapter of *Alpha Gamma Delta*.
- Delta Beta Chapter of *Kappa Delta*.

Interfraternity Council. The Interfraternity Council, composed of three members from each fraternity, aids in establishing policies relating to the fraternity system on Eastern's campus. In conjunction with Panhellenic Council, it plans the annual Greek Week program.

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

National Honorary Fraternities.

Kappa Delta Pi. Beta Psi Chapter, an international honor society in education.

Sigma Tau Delta. Upsilon Gamma Chapter, a national professional English fraternity.

Epsilon Pi Tau. Iota Chapter, a national honorary fraternity in industrial arts.

Kappa Mu Epsilon. Illinois Beta Chapter, a national professional fraternity in mathematics.

Kappa Pi. Chi Chapter, a national honorary art fraternity.

Pi Kappa Delta. Illinois Sigma Chapter, a national honorary fraternity in forensics.

Pi Omega Pi. Alpha Chi Chapter, a national honorary fraternity in business education.

Gamma Theta Upsilon. Rho Chapter, a national professional geography fraternity.

Pi Delta Epsilon. A national honorary fraternity in journalism.

Phi Sigma Mu. Theta Chapter, a national honorary fraternity in music education.

Kappa Omicron Phi. Alpha Theta Chapter, a national honorary professional fraternity in home economics.

Sigma Alpha Eta. Alpha Alpha Chapter, a national honorary society in speech and hearing disorders.

Phi Alpha Theta. Epsilon Mu Chapter, national history honor society.

Alpha Epsilon Rho. Alpha Lambda Chapter, a national honorary fraternity in radio and television.

Phi Delta Kappa. The Delta Omega Chapter, an international graduate fraternity for men in education.

Beta Beta Beta. Gamma Theta Chapter, a national honorary fraternity in biological science for majors in botany and zoology.

Phi Epsilon Kappa. Beta Zeta Chapter, a national honorary fraternity in men's physical education.

Delta Sigma Pi. Epsilon Omega Chapter, an international fraternity in business administration.

Phi Beta Lambda. Iota Omicron Chapter, a national professional fraternity in business and business education.

STUDENT ACTIVITIES

Student-Faculty Boards. Several student activities on Eastern's campus are supervised cooperatively by the student and the faculty by means of student-faculty boards. Members of these boards are appointed by the president of the university with nominations of faculty members coming from the Faculty Senate and nominations of student members coming from the Student Senate. The Dean, Student Personnel Services, or his representative, and the president of the Student Senate are ex officio members of all boards. The following boards have been established: Apportionment Board, Artists Series Board, Health and Hospitalization Board, Lecture Series Board, Men's Athletic Board, Music Activities Board, Radio Board, Speech Activities Board, Student Publications Board, Traffic and Safety Board, University Union Board, Women's Athletic Board.

Activity Fees. Activities under the supervision of student-faculty boards receive major support from activity fees charged all students. The allocation of the money 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.

Forensics. Opportunities to participate in extemporaneous speaking, oratory, discussion, debate, and parliamentary legislative assembly are available to all students at Eastern Illinois University.

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

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

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

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

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

Radio. Educational radio programs are produced weekly in the Fine Arts Studio by students interested in broadcasting. All students may participate regardless of major or minor concentrations. Programs are broadcast regularly over local stations and periodically are sent to stations throughout Illinois.

Music. A variety of music organizations provide opportunities for musical growth through enjoyable activities, which in turn contribute richly to the life of the University. Instrumental organizations including a marching band which functions during the football season, a concert band, a stage band, and an orchestra. The choral organizations are the Mixed Chorus, the Men's Glee Club, Collegians, and the Cecilian Singers. Small vocal and instrumental ensembles afford additional opportunities for students to study and perform music.

These music organizations present public concerts and represent the University in concert tours. Workshops, clinics, and festivals are held throughout the year.

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 *Warbler*.

Women's Athletics. The Division of Physical Education for Women sponsors the Women's Athletic Association which is open to all women enrolled as regular students. Any student becomes a member of the Women's 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 with other college students, and to participate in the sportsdays held at Eastern. There are fifteen activities during the year. Apparatus, archery, badminton, baitcasting, bowling, canoeing, fencing, folk and square dancing, golf, hockey, modern dance, softball, swimming, and tennis are the activities offered by the Women's Athletic Association. 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. Division of Physical Education for Men offers an intramural program with opportunities for participation in recreative physical activities. Participation is voluntary and open to all students. The objective of this program is to make recreation and physical development available for every student:

Intercollegiate Athletics. Through the medium of intercollegiate athletics opportunities for competition are presented for individual development of traits such as sportsmanship, fair play, honesty, fellowship, understanding, and adherence to democratic ideals, to the end that personal growth and character necessary in good teaching will result. In addition, the acquisition of certain professional techniques and skills basic to the development of sound teaching practice as well as individual recreational competence are objectives of the athletic program. In furtherance of these purposes, the University is a member of the Interstate Intercollegiate Athletic Conference, the National Association for Intercollegiate Athletics, and the National Collegiate Athletic Association.

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

AUTOMOBILE REGISTRATION AND CONTROL

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

After the first week of classes in any quarter, the owner of a car found parked on the campus without a registration sticker will be charged a \$5.00 late registration fee.

An application for a Parking Permit should also be made at the Security Office. A committee of faculty and students reviews all requests and makes assignments based upon such factors as distance, employment, and physical disability. The charge for the permit is \$1 for a calendar year. A permit for the summer session is 50¢.

University Traffic Regulations. All state and community laws apply on campus. University parking regulations are in effect at 7 A.M. on the first day of classes of each quarter and remain in effect until 4 P.M. of the last day of examinations of each quarter. University holidays are excepted. Other regulations will be issued periodically by the Security Office.

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

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

ALUMNI ORGANIZATIONS

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

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

Officers of the Alumni Association for 1964-65 are Charles M. Montgomery, Mattoon, president; Gail Lathrop, Olney, vice-president; and John Huffman, Mattoon, secretary-treasurer.

The executive committee for the Association is composed of the officers and twelve other members elected for three-year terms. Other members are Louis Voris, Neoga; Mrs. Gertrude Neff, Charleston; Robert McKnight, Oblong; K. B. Wilson, Charleston; Joe Stone, Clinton; Robert A. Wright, Libertyville; Harry Read, Charleston; Ron Leathers, Robinson; Aaron Gray, Mattoon; Mrs. Jahala DeMoulin, Decatur; Park Fellers, Hillsboro; and Mrs. Marilyn H. Sinclair, Oblong.

Alumni have formed organizations called Eastern Illinois University Clubs in several counties of Illinois. These clubs usually meet one or more times each year with programs designed to keep graduates and former students in touch with each other and with the University.

In 1947 the Alumni Association issued the first *Eastern Alumnus*, a quarterly magazine mailed to subscribers throughout the United States and several foreign countries. Subscription rates (which include membership in the Alumni Association) are \$2.00 for one year, \$2.75 for two years, and \$3.50 for three years.

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

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

The president of the University, the chairman of the Teachers College Board, and the president of the Alumni Association are automatically honorary members of the foundation. The regular members include 100 alumni of the University. The board of directors consists of nine persons, including the president of the University, president of the Alumni Association, the director of alumni services and six elected members.

III. Student Expenses and Financial Aid

EXPENSES

Fees described below are payable on registration day of each quarter.

Registration Fee	\$40.00
*Service Fee	32.00
Health Insurance Fee	5.50
<hr/>	
Total	\$77.50

The above fees are for regularly enrolled students taking nine or more quarter hours of work.

Any student registered for less than nine quarter hours is a part-time student unless he is attending an evening class or a workshop organized under the extension program. Students taking over eight quarter hours are regarded as full-time students and are subject to payment of regular fees.

Fees, part-time students	
Course Fee (per course)	\$12.50
**Service Fee (per course)	7.50
<hr/>	
Total	\$20.00

(A part-time student may purchase a Student Activity Ticket for the regular price of \$10. Part-Time students are not permitted to purchase Health and Accident Insurance.)

Application Fee. A non-refundable charge of \$15.00 must accompany the application for admission of all undergraduate students.

Out-of-State Tuition. In addition to the regular university fees of \$70.50, a student who is not a legal resident of the State of Illinois is required to pay an Out-of-State Tuition fee of \$56.66 per quarter.

Part-time students from out of state will pay \$14.25 per course each quarter in addition to the regular part-time fee.

A student under 21 years of age is considered a non-resident of Illinois and subject to payment of out-of-state tuition fees unless the parents (or legal guardians) are residents of Illinois. This means that the parents (or legal guardians) have a permanent

*Student Activity Fee—\$10.00, Bond Revenue Building Fee—\$14.00, Textbook Rental—\$8.00.

**Bond Revenue Building Fee—\$5.00, Textbook Rental—\$2.50 (per course).

¹ The Bond Revenue Building Fee is payable by each student for the construction and maintenance of the University Union and Physical Education and Recreation Building.

place of abode in Illinois of such nature as would qualify them to vote in Illinois. Students over 21 years of age are considered residents of Illinois only if they have established a bona fide residence in Illinois for a period of twelve months preceding registration and are residents at the time of registration. An exception is made in the case of a woman student either under or over the age 21 who becomes an Illinois resident because of marriage to a man who is a legal resident.

Official Receipt. The official receipt for university fees *MUST* be preserved by the student during the quarter involved. A fee of \$1.00 will be charged for any duplicate official receipt obtained from the cashier.

MISCELLANEOUS CHARGES

Extension Course Fee (See page 141.)

Chemistry Breakage Ticket. A deposit of \$3.00 is required for a breakage fee in all chemistry courses except Chemistry 340. Refund is made of the amount not used for actual breakage after the locker is checked out.

Charges for Materials. Fees for materials used are paid in certain courses in art and industrial arts. Completed projects are the property of the student. The foregoing statement applies to all art courses and elective projects in industrial arts courses numbers 336, 356, 420, and 447.

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

Lock Purchases. Padlocks for lockers used in physical education must be purchased at the University Union. The cost per lock is \$2.50.

Towel Tickets. The Divisions of Physical Education will issue each student a towel free of charge at the beginning of the year or any quarter when he did not carry physical education during the previous quarter. The student will be required to turn in the old towel to obtain a clean or new one at any time, including the beginning of the next quarter.

Graduation Fee. Candidates for graduation must make application for graduation at the Records Office and pay the graduation fee at the Business Office before April 1 for the May graduation and before July 1 for the August graduation. This fee, \$15.00 for masters' degrees and \$10.00 for other graduates, includes the cost of cap and gown rental.

Transcript Fee. The University will furnish one transcript of the academic record of a student when requested to do so. A fee of one dollar will be charged for each transcript issued after the first one. An additional fifty cent fee will be charged for each extra copy of the transcript made at the same time. Transcripts will be issued only for students whose university accounts are clear.

Change of Program. A fee of \$5.00 is charged for each course added after registration day. The fee is non-refundable. Certain exemptions are permitted. No additions may be made to student programs after the fifth day of University classes.

Textbook Library Fee. A fee of \$1 per book is charged if the student's record in the Textbook Library is not clear by 12 noon following the last day of examinations. The cost of a damaged or lost book is also charged.

General Library Service Fee. All library materials must be returned and records cleared by the end of each quarter. Lost or mutilated materials must be paid for. Special fines are assessed for failure to observe library regulations, and a service charge of not less than \$1.00 is added for failure to clear records at the end of the quarter. In addition, students who fail to clear library records are denied library privileges.

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

Late Registration Fee. An extra fee of \$10.00 is charged anyone who registers after the registration dates shown in the catalog, or who fails to pay all fees on registration day. This fee is non-refundable. No registrations will be accepted after the fifth day of University classes.

REFUNDS

Withdrawal Student. If a student withdraws from the University during a quarter by completing the procedure described under "Withdrawal" and if his initial notice of intention to withdraw is made to the Dean of Men or Dean of Women during the first ten calendar days following the first day of classes for the quarter, registration fees will be refunded. There will be no refund of the service or insurance fee. There is no refund of *any* fees if the withdrawal is initiated at a later date. The notice of intention to withdraw should be made in person, although a letter addressed to the Dean, Student Personnel Services, declaring intention to withdraw and postmarked within the stated period is deemed equivalent to the initial notice. If the tenth day falls on a Sunday

or within a stated vacation period, the next school day is considered as the tenth day. The official receipt for University fees should accompany the request for refund.

A student called up for active duty or induction into the Armed Forces prior to the 27th regular class day of the quarter will be given a refund of all fees except the service and insurance fees.

Pre-registered Student. If a student pre-registers and pays his fees prior to the regular registration date for the quarter but does not appear at the University for classes, all fees will be refunded, providing notice is given in writing to the Assistant Dean, Registration and Records, five calendar days prior to the announced day of registration. If such notice is not given within the prescribed period but is given during the first ten calendar days following the first day of classes for the quarter, only the registration fee will be refunded.

A student who pays full registration fees and reduces his load to that of a part-time student during the first ten calendar days following the first day of classes will be refunded only the difference between his registration fee and the course fee for those courses constituting his part-time load. There will be no refund of the service fee or insurance fee.

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

Board and Room Payment. There will be no refund of room rent except upon cancellation of the residence hall contract, in accordance with the terms thereof, because of withdrawal from the University for one of the following reasons and under the conditions as stated: (1) action by the University for academic reasons, included graduation; (2) health reasons as certified by the Director of Health Service, Eastern Illinois University; (3) emergency reasons, as validated in writing by the Dean of Men or the Dean of Women, respectively, Eastern Illinois University.

An exception would be made for a student called up for active duty in or induction into the Armed Forces.

RESIDENCE HALL CHARGES

Housing Security Deposit. A housing security deposit of \$25 is required with an application for accommodation in the university residence halls. The deposit will be held by the University as security for payment for any loss of or damage to university property. The deposit will be refunded upon request, if the application is cancelled in writing prior to the signing of a residence hall contract. When a residence hall contract has been signed by applicant, refund of the housing security deposit will be made according to the terms of the contract.

Board and Room. During the fall, winter and spring quarters, charge for board and room in university residence halls is \$252 per quarter, if paid in full in one payment, or \$254 per quarter, if paid in installments, payable in advance on dates set by the University. This payment includes towels and linens. Most rooms are for double occupancy, except that a few single rooms are available and a few rooms are occupied by three persons. Sunday evening meals and meals during vacation periods are not included in the price quoted above. Details concerning residence hall occupancy are found in the residence hall contract. Information on possible installment payments is available from the Office of the Dean of Women or Dean of Men. Rates for the summer quarter and summer session are published in the summer bulletin.

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 Residence Hall Payment. A fee of \$5.00 is charged if a residence hall payment is not paid on the dates set by the University unless special permission is granted by the Dean of Women or Dean of Men.

FINANCIAL AIDS

Scholarships and Awards.

Teacher Education Scholarships. Teacher Education Scholarships entitle the holders to gratuitous instruction for a period of four calendar years. Specialized Teacher Education Scholarships are as follows: *Junior College Graduate*, issued by Junior Colleges to their graduates who continue their education; *G.E.D.*, 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.

The holder of a Teacher Education Scholarship must gain admission to the University he wishes to attend. The scholarship is forfeited if the holder is not enrolled within ten days after the opening of the school term, withdraws from the University, or transfers out of teacher education. The scholarship entitles its holder to gratuitous instruction, matriculation fees, graduation fees, tuition and activity fees, or other fees in a program of teacher education, except any fees which are charged in connection with the construction or maintenance of buildings. Book rent, laboratory fees, Bond Revenue Building fees, Health and Accident Insurance fees and fees for supplies and materials are not covered by the scholarship. A leave of absence not to exceed two years may be granted in case of illness or the necessity to

earn funds to continue the holder's education. A student desiring a leave of absence must make application in the Office of Financial Aids.

County Scholarships. 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 ACT examination. The scholarship entitles the holder to gratuitous instruction for a period of four calendar years.

Military Scholarships. Any person who served in the armed forces of the United States during World War I or any time after September 16, 1940, who at the time of entering such service was a resident of Illinois and has been honorably discharged from such service, and who possesses all necessary entrance requirements may be awarded a scholarship. This scholarship covers the registration fee and the student activity fee.

A Military Scholarship may be secured by filing a photostatic copy of the discharge or separation papers with the Director of Veterans' Services. The scholarship cannot be used when a veteran draws federal subsistence; it is awarded for four consecutive years. Leaves of absence up to two years in length may be granted in case of illness or extreme financial hardship. In all cases, the scholarship will terminate six years from date of issue.

Training Under Public Laws 634, 894, 815. Certain veterans may enroll for training under Public Law 894. Veterans with 30% or more disability are eligible for training under Public Law 815. War orphans may receive training under Public Law 634. Applications are processed by the Office of Veterans Services at the University.

Legislative Scholarship. Each member of the General Assembly may nominate annually from his district two persons, one of whom shall receive a certificate of scholarship to the University of Illinois and the other a certificate of scholarship to any other state-supported university designated by the member. Application is made directly to the legislator who makes the appointment and notifies the president of the university through the Office of the State Superintendent of Public Instruction. A second appointment can be made to fill the unused portion of the scholarship if the original recipient fails to use it. The scholarship pays all fees with the exception of the Bond Revenue Building Fee and the book rental portion of the Service Fee and the Insurance Fee. It is transferable to any state university except the university of Illinois.

I.S.S.C. The Illinois State Scholarship Commission awards scholarships to students for a maximum of four calendar years. The awards are based on a combination of financial need and

scores on a battery of tests which are taken while the student is in high school. The stipend covers all registration and other fees.

Upperclass I.S.S.C. Award. Application for this award must be made to the Director of Financial Aids. To qualify, the applicant must have satisfactorily completed at least one, but not more than three, year's work leading to a bachelor's degree; must have attended Eastern Illinois University the previous academic year or the summer quarter preceding September 1 of the year for which application is made; must have parents who are residents of Illinois; must demonstrate financial need as determined by the I.S.S.C.

The William Craig Simmons Memorial Award. Established by Mrs. W. C. Simmons of Charleston, 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 the members of the business faculty.

The Livingston C. Lord Memorial Scholarship. The Alumni Association of the University established this scholarship fund in memory of Livingston C. Lord, President of the College, 1899-1933.

The proceeds are used for scholarships which are awarded annually at Commencement to one or more junior or senior students graduating at either the spring or summer commencement of the calendar year following the year at which the award is announced. The student's character, scholarship, and skill in teaching must promise service of distinction in the field of education.

Illinois Congress of Parents and Teachers Scholarship. The Illinois Congress of Parents and Teachers gives funds each year for scholarships which are awarded to selected students. The qualifications for eligibility are: high scholastic standing, good health, the need of financial aid. The applicant must signify intention to teach. Application for the scholarship should be made to the Director of Financial Aids.

Business Alumni Award. This award was established by the alumni of the Business Department. It is to be 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 members of the business faculty.

Pi Omega Pi Scholarship. The Alpha Chi Chapter of Pi Omega Pi awards annually ten dollars (\$10.00) to the freshman business education major who at the end of the winter quarter has attained the highest general scholastic average. In order to qualify for the

award the student shall also have attained at least an average of B (3.0) in a prescribed business education curriculum. In cases where candidates present equivalent scholastic ratings, preference will be given the candidate who indicates the greatest promise and interest in business education.

The Winnie Davis Neely Memorial Award. Sigma Tau Delta established this scholarship fund in memory of Winnie Davis Neely, a member of the English department, 1934-1952. An award is made annually to the University student who submits the best manuscript in the literary contest sponsored by *Eastern News* and Sigma Tau Delta.

Paul Turner Sargent Scholarship Award. This award has been made possible by the family and friends of the late Paul Turner Sargent. Each year the award is made to an art major or minor who has completed at least eighty quarter hours of course credit. Any student eligible to receive the award shall have demonstrated outstanding aptitudes in art and a sincere interest in art and art education.

The Kate Booker Stapp Scholarship. This award is 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.

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

Taylor Award. The Taylor Award was 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.

G. B. Dudley Award. The Dr. G. B. Dudley Memorial Fund was established by Dr. Dudley's son in memory of his father who was closely associated with the University since its founding. As a physician and surgeon in Charleston, Dr. Dudley was intimately acquainted for many years with most of the faculty and many of the students. He was well known for his integrity and for his thorough and creative work as a scientist.

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 those four departments, primarily on the basis of series and original work.

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

Charleston Achievement Award. A scholarship of \$150 annually made available 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. The scholarship winner is announced at the annual Honors Convocation.

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

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

LOANS TO STUDENTS

Funds have been made available through personal gifts and grants from the state and federal governments for loans to needy students. Applications for student loans are to be secured in the Office of the Director of Financial Aids.

Emergency Loans. The amount of an Emergency Loan is limited to \$100 for a maximum period of ninety (90) days. No interest will be charged. To be eligible a student must be in residence at the University at least one quarter.

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

No student can 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 2

percent during enrollment. At termination of enrollment the rate increases to 6 percent.

Under the will of the late Dr. W. D. Morgan of Charleston, there is given to the Student Loan Fund the annual income from approximately six thousand dollars. An additional amount will be received at the death of certain heirs.

In 1934 there was left to the University by the will of the late John L. Whisnand of Charleston, upon the death of his widow, a portion of his estate as an endowment, the income from the endowment to be available for financial assistance to deserving students. The amount in trust with the Charleston National Bank as trustee is \$5,765.91.

National Defense Student Loans. The National Defense Student Loan Program, established by Congress in 1958, will be in effect until June 30, 1966. 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.

Illinois Congress of Parents and Teachers Loan Fund. The Illinois Congress of Parents and Teachers in September, 1954, established a loan fund of \$1,000 at Eastern Illinois University. Loans from this fund on either a short or long time basis may be secured by an eligible student who is in training for the teaching profession. No interest will be charged if the money is repaid within a year of termination of enrollment. Interest then begins at 3 percent. Students should contact the office of the Director of Financial Aids for application forms.

The Adelia Carothers Fund. A fund known as "The Adelia Carothers Fund" has been established by the late Mrs. Ida Carothers Merriam and Mr. Charles G. Carothers in memory of their mother. This fund is to be loaned to young women students of high character and scholarship during the last half of their course. The interest rate is 2 percent during enrollment. At termination of enrollment the rate increases to 6 percent.

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.

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.

ILLINOIS ORPHANS EDUCATION ACT

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

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

STATE REHABILITATION PROGRAM

The University cooperates with the Illinois Division of Vocational Rehabilitation. The purpose of this program is to provide rehabilitative services to those individuals who have a physical disability or psychological malfunction which interferes with their vocational objective. Information concerning this program can be obtained in the office of Student Personnel Services or in the local office of the Division of Vocational Rehabilitation serving the area or the student's home.

IV. Admission, Registration, and Advisement

ADMISSIONS

Procedure for Applying. An application blank may be obtained by writing the Office of Admissions. The blank contains a section to be filled out by the applicant and a section to be filled out by the high school from which the applicant was graduated. The principal of the high school will forward the application to the Admissions Office of the University. A fifteen dollar non-refundable application fee must accompany each application for admission to the university.

To insure consideration for admission for any quarter, the application blank, personal information blank, physical examination blank, and transcripts from any colleges previously attended must be filed with the Admissions Office and verification of housing filed with the Dean of Men or Dean of Women. Applications from students who have not previously attended a university or college and from transfer students in good standing must be completed ten calendar days prior to the published official registration date for that quarter. Students who rank in the lowest third of their high school class will conform to special instructions obtained from the Admissions Office.

Applications for admission of transfer students not in good standing must be complete and in the Admissions Office no later than two weeks prior to the official published registration date for that quarter.

Admission of Freshman Students*. In order to permit the university to make full utilization of its staff and facilities and at the same time avoid the risk of overcrowding, especially in housing, the following delimiting dates will be observed for fall quarter, 1965 applications:

Until April 1, 1966, the university will give priority in considering applications for students who ranked in the upper 40% of their high school graduating classes. All Teacher Education Scholarship holders, regardless of rank, will be given priority.

After April 1, 1966, the university will also consider applications from additional students who ranked in the upper 50% of their high school graduating classes, if enrollment limits have not been reached.

*Approved by the Teachers College Board, October 26, 1964.

After May 1, 1966, the university may accept applications from any students who ranked in the upper 60% of their high school graduating classes, provided such action is justified by the number of application cancellations.

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

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

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

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

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

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

Admission of Transfer Students. Transfer students must file an application for admission and must request the institution or institutions previously attended to forward transcripts to the Office of Admissions. The request for a transcript should include a request to transmit scores on entrance examination tests.

Transfer students are admitted without condition if these documents, together with such supplementary information as the university may obtain, indicate that the student was in good standing in the institution last attended and would have been in good standing according to regulations which govern students of Eastern Illinois University. Transfer students who meet the aforementioned requirements may be admitted during any quarter.

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

of Admissions in which he discusses the reasons for his poor academic record and explains why he believes he is capable of success at Eastern Illinois University.

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

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

In general, students ranking in the lowest third of their high school classes must have been tested by the middle of July for fall term admission and at least three weeks prior to the beginning of any other quarter. Low ranking students should write early to the Admissions Office for a schedule of dates showing when testing and counseling must have been completed.

Readmission of Former Students in Good Standing. Former students, undergraduate or graduate, who are in good standing and who return to the university after a lapse of one or more quarters should make application for readmission through the Office of Registration and Records at least ten calendar days prior to the official registration day of the quarter in which they wish to re-enter the university. Students enrolled during the spring quarter and not enrolled in the summer quarter need not apply for readmission for the fall. Former students dropped for poor scholarship from Eastern or some other university subsequent to their last enrollment at Eastern should see the section on Appeals.

Special Students. Residents of Illinois who are not high school graduates but who are at least twenty-one years old may be admitted as Special Students. They may apply for admission by completing the application for admission form and other admission materials. These persons may be admitted to take such undergraduate courses as they may be qualified to study, but they may not be considered candidates for a degree or diploma. These persons may become candidates for a degree by passing the G. E. D. examination and obtaining a high school equivalency certificate. In this case, only those college courses taken after passing the examination may be counted toward graduation.

Graduate Study. Students wishing to take graduate work see section on Graduate Study. All others follow procedures outlined in this section.

Housing Application. Housing applications must be sent to the Dean of Men or Dean of Women (see section on Student Life and Activities, 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.

Official Permit to Enroll. An official Permit to Enroll is mailed to applicants deemed eligible by the university for admission. The permit becomes invalid if all required materials, including proof of housing, are not filed by the specified date.

Cut-Off Dates for Completed Applications. All applications for admission and readmission must be filed with the Office of Admissions and all requirements for admission must be met by the cut-off date, indicated below, specified for the quarter in which the student wishes to enroll.

Fall Quarter, 1965	Friday, August 27
Winter Quarter, 1965-66	Friday, November 19
Spring Quarter, 1966	Friday, February 25
Summer Quarter, 1966	Friday, May 27

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

ACCEPTANCE OF CREDIT

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

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

College Credit for Military Service. Former members of the armed services who completed basic training are given four quarter hours credit in hygiene and are exempted from required physical education courses, except that this does not apply to

those having less than one year of full time active duty service. An exception to this rule also obtains for students taking a major in physical education. Certain experiences in military service may be submitted for evaluation for advanced standing. The recommendations contained in the Handbook of the American Council on Education are used as a basis for such evaluation, and credit is allowed when the recommendations can be considered as reasonable substitutes for work ordinarily accepted by the university.

No credit is allowed for college level G. E. D. tests.

Correspondence and Extension Courses. Correspondence and extension courses taken through accredited colleges may be submitted for advanced standing. The total credit accepted toward graduation may not exceed forty-eight quarter hours. Simultaneous enrollment in residence and correspondence courses is subject to approval in advance by the Dean of Student Academic Services; permission is given only when the total of residence and correspondence work is within the normal load.

ACADEMIC ADVISEMENT

New Students. All undergraduates who are entering Eastern Illinois University for the first time, whether as first quarter freshmen or as students with advanced standing, are required to be present for all of the sessions of an orientation program. Each new student must have speech and hearing tests during this period; failure to do so will result in exclusion from classes. The physical examination must be completed before registration is begun.

Each new student is assigned to an adviser who assists him in the preparation of his academic program. During the orientation days the adviser and the student together plan his courses for the entire year—a procedure known as pre-registration. 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. Students who return to the university after a lapse of one or more quarters must apply to the Records Office for readmission. Assignment of an adviser will be made by the Dean of Student Academic Services through the Registration Office.

REGISTRATION PROCEDURES

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

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

All students who have not pre-registered 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 wishing to re-enter the university should consult pages 90 and 92 of the current catalog.

Change of 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 pre-registration or registration.

Refund of Registration Fees. See Section on Miscellaneous Charges and Refunds.

V. Academic Regulations

CREDIT

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

A year's work is equivalent to 48 quarter hours (32 semester hours) of prepared work. A year's work in one subject is equivalent to 12 quarter hours (8 semester hours). The normal load in one quarter is 16 quarter hours of prepared work.

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

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

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

CLASSIFICATION OF STUDENTS

Students are classified as follows:

(exclusive of nominal credit courses)

Freshmen	with 0 thru 39 quarter hours
Sophomores	with 40 thru 87 quarter hours
Juniors	with 88 thru 135 quarter hours
Seniors	with 136 qr. hrs. and upward

Graduate—if he has completed all requirements for a bachelor's degree and has applied for and been admitted to take graduate courses.

Special or unclassified—if he does not fall into any of the above categories.

ACADEMIC STANDING

Grades. The grades given in courses are as follows:

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

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 approved plan for completion of work no later than the end of the next quarter that the course is offered and in which he is in residence. If the plan is carried out, the grade earned by the student replaces the grade of E; otherwise the grade of E stands on the student's record. The restricted time mentioned above does not apply to the formal graduate papers required for the master's degree.

Grade Point Average.* The number of grade points for a grade in a given course is found by multiplying the grade point value by the number of quarter hours which may be earned in the course. The Grade Point Average is computed by dividing the total number of grade points earned in all courses taken at Eastern Illinois University by the total number of quarter hours represented by those courses.

Grade Point Deficit.* If the Grade Point Average is less than 2.0, a Grade Point Deficit exists. This is computed by subtracting the grade point total from twice the total number of quarter hours. (This is equivalent to defining the Grade Point Deficit as the number by which the grade point total would have to be increased in order to have a Grade Point Average of 2.0 in the courses considered.)

Good Standing. A student who has attended, full time or part time, less than one year in Eastern Illinois University and/or other colleges is considered in good standing unless he has a Grade Point Deficit greater than 4.

A student who has attended one year in Eastern Illinois University and/or other colleges is considered in good standing if his Grade Point Average is 2.00 or higher.

Reinstatement. If a student who has been dropped for low scholarship with a deficit greater than 12 is readmitted by the Committee on Admission *after at least one calendar year has elapsed*, his previous record is evaluated as if he were transferring from another institution: the amount of credit toward graduation is limited to the total represented by the courses previously passed with grade of C or higher, and subsequent computations of grade point averages are based only on work done after re-

*An example of these computations: If grades of A, B, C, D, and F are earned in courses of 2, 4, 4, 1, and 4 quarter hours respectively, the Grade Point Average and Grade Point Deficit are computed as follows:

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

admission. 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. The provisions of this paragraph are not available to a student readmitted within one calendar year after the date on which he was dropped.

If a student who has been dropped with a deficit not greater than 12 is readmitted by the Committee on Admission, he may be given by the Committee up to three quarters to attain good standing; his privilege of attendance is cancelled, however, at the end of any quarter if he has not either attained good standing or made an average gain of four points per quarter.

Honors. Graduation honors for the Junior College Diploma and the degrees B.S. in Ed., B.A., and B.S., are computed on the basis of the scholarship record at the end of the Winter Quarter of the year of graduation, or at the end of the Spring Quarter in case of graduation in the August commencement. To be eligible for graduation honors a student must have been in residence for two academic years or the equivalent in summer terms.

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

Any quarter in which a student registers in the university will be considered as a quarter attended. In case a student withdraws during a quarter for reasons beyond his control, the Committee on Admission 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 for one quarter.

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 for one quarter. The rules for defining a quarter attended shall be the same as those defined in the section entitled "Good Standing."

Exclusion (Dropped). A student is dropped for low scholarship (1) if at the close of a quarter of Final Probation he has not attained good standing; (2) if at any time subsequent to a quarter of Final Probation his record falls below that required for good standing; or (3) if at any time his records shows a cumulative Grade Point Deficit greater than 12. The rules for defining a quarter attended shall be the same as those defined in the section entitled "Good Standing."

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

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

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

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

Scholarship Requirements for Graduation. (See "Graduation Requirements.")

EXTRA WORK

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

No student may register for additional work during:

1. his first quarter of residence in the university,
2. a quarter in which he is taking four (4) quarter hours or more of student teaching,
3. a ten (10) week summer quarter.

An undergraduate student may register for overload as follows. He may register for as many as twenty (20) quarter hours if:

1. his cumulative grade point average is at least 3.0, or
2. his cumulative grade point average for the last three quarters immediately past is at least 3.0.

A student may register for 18 quarter hours if his cumulative average is at least 2.75.

Except as noted above, any music major in good standing may register for eighteen quarter hours including two quarter hours in applied music. 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. A music major may carry one hr. overload during student teaching if he must do his recital when doing student teaching and if his GPA makes him eligible.

Speech Correction majors may carry 18 hours when enrolled for advanced clinical practice.

Majors in women's Physical Education may carry two service courses in addition to the normal sixteen hour load.

Graduate students are restricted to 16 quarter hours during a quarter.

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, Student Personnel Services the first day of his absence, if possible, so that his teachers may in turn be notified.

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

A student who is absent immediately before or immediately after a vacation period is not accorded the privilege of making up work missed, unless it is definitely established through the University Health Service and the Dean, Student Personnel Services 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, Student Personnel Services or the Dean of Student Academic Services upon request.

Instructors are expected to report to the Dean of Student Personnel Services the name and attendance record of any student whose absences have become a matter of concern to the teacher. 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 Student Personnel Services. In the event that the student has missed classes for reasons acceptable to the Dean of Student Personnel Services, 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 Student Personnel Services, the student may be required by the Dean of Student Personnel Services to withdraw from the course from which he has been reported excessively absent. In aggravated cases of failure to attend classes he may be dropped from the University by action of the Council of Administrative Deans and Directors on recommendation of the Dean of Student Personnel Services.

WITHDRAWAL FROM A COURSE OR FROM THE UNIVERSITY

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

A student who wishes to withdraw from the University before the end of a quarter or summer term, begins his withdrawal at the Office of the Dean of Student Personnel Services. This notification must be accompanied by a clearance sheet which may be obtained from the Office of the Dean of Student Personnel Services. This sheet when filled out should certify that all obligations, including the return of textbooks and library books, the return of departmental equipment loaned to the student, the return of the identification card, etc., have been met. After the clearance sheet has been filled out certifying that all obligations have been met, the sheet is turned in to the Office of Registration and Records.

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. In particular, 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 as determined by the University physician. However, when a first quarter freshman leaves school within the first twenty-five days of classes (5 weeks) the Records Office is authorized and directed to record grades of WP in all courses.

No student may drop a course after the thirty-fourth school day following registration day unless illness (certified by the University physician) or extended absence from the campus certified by the Dean of Student Personnel Services as legitimate and unavoidable, has caused the student to drop behind in all of his courses to the point where his load must be lightened.

A student who is carrying an overload (18 to 20 q. hrs. of regular courses) may reduce his schedule to 16 q. hrs. at any time during the first thirty calendar days of the quarter and receive the grade of WP in the course dropped.

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

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

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

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

PROFICIENCY EXAMINATIONS

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

1. The applicant must be in good standing and must fit into one of the following categories:
 - a. Be enrolled as a full-time student.
 - b. Be within 16 quarter hours of graduation.
 - c. Be a teacher who has been working regularly toward the degree Bachelor of Science in Education.
 - d. Be in full time residence in the summer immediately preceding the year in which application is made.
2. The course in which examination is requested may not duplicate substantially any course accepted for college entrance or for transfer of credit.
3. He must obtain a recommendation in writing from the department head and approval from the Vice President for Instruction before the examination may be taken. The applicant should present evidence of independent study or of equivalent work taken in non-accredited schools.
4. An examination for credit in an elementary college subject will not be permitted to a student who has already received credit for more than one quarter's work in advance of the course in which the examination is requested.
5. Proficiency examinations may not be used to remove grades of F or to raise grades.
6. In order for the student to be allowed credit, the examination must be comprehensive, and the grade must be C or higher. The symbol "Cr" is entered in the student's record, and the credit is not counted in averages for honors, probation, etc.
7. Credit earned by proficiency examinations may be counted toward a bachelor's degree or junior college diploma subject to all of the rules that would apply if the same course had been taken in regular class attendance.

8. Permission shall not be granted for examinations in shop, studio, or laboratory courses in which the actual laboratory experience is an important factor in determining the course grade. An exception can be made when the course work has been done in a non-accredited learning situation.
9. Proficiency examinations may not be given for credit in required physical education or applied music.
10. When a course in which an examination is granted is ordinarily taught by more than one member of a department, a committee of at least two members should be assigned the responsibility for the examination and the grade. This assignment is made by the head of the department.

GRADUATION REQUIREMENTS

Eastern Illinois University offers a junior college diploma, four baccalaureate degrees, and three masters degrees. Regulations governing the junior college diploma and the baccalaureate degrees are presented in the sections below:

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.

Diploma. A Junior College Diploma is awarded upon successful completion of one of the two-year curricula described in this bulletin. At least one year of residence work is required for the Junior College Diploma.

A candidate for the Junior College Diploma must pass an examination on the Declaration of Independence, the proper use and display of the flag, the Constitution of the United States and the Constitution of Illinois.

Three-fourths of the candidate's grades must be C or above, and the grade point average of all courses must be 2.0 or higher.

The physical education requirement for graduation with a Junior College Diploma is six quarter hours.

General Requirements for Baccalaureate Degrees. The official requirements for the baccalaureate degrees are given in the curriculum outlines.

Credit. The minimum credit for a junior college diploma is 96 quarter hours, and for a baccalaureate degree, 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 requirement.

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

Extension and Correspondence Work. A maximum of 48 quarter hours of correspondence and extension credit may be applied toward the baccalaureate degree. A total of 12 quarter hours may be taken in extension toward the master's degree.

Special Examinations. An examination on the Declaration of Independence, the proper use and display of the flag, and the constitutions of the United States and of Illinois must be passed by all candidates for graduation. An exemption from this requirement may be obtained by students who receive a grade of C or better in each of Political Science 110, 111, 112 and who apply to the head of the Social Science Department.

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

Advanced Courses. Sixty-four (64) quarter hours of credit in courses numbered 300-549 must be earned in the baccalaureate degree programs. In the case of students who enter with advanced standing, courses not open to freshmen and sophomores in schools previously attended may be included in this total.

Grade Point Average. An average of 2.0, with not more than forty-eight (48) quarter hours of grades below C, is required for graduation. The grades in the major must likewise average 2.0 or higher.

Application for Graduation. Degrees are conferred at the close of the fall, winter, spring, and summer quarters to students who complete all requirements for graduation. Students completing their work at the close of the fall or winter quarters may elect either to receive their diplomas at that time or to participate in the Spring Commencement exercises. Students entitled to participation in commencement exercises are:

1. Those who graduate at the end of fall and winter quarters.
2. Those whose current enrollment in correspondence, extension, and residence at Eastern Illinois University or elsewhere makes possible the completion of all graduation requirements by the close of the spring or summer terms.

Students may apply for graduation upon completion of 128 quarter hours of course work. All requirements for degrees or diplomas must have been completed by the close of the quarter for which graduation is sought. It is the student's responsibility

to notify the Office of Registration and Records of any non-campus courses being taken which will complete the requirements for graduation. Transcripts of such work must be received by the Office of Registration and Records prior to the close of any quarter in which a degree is sought. Applications for graduation may be obtained at the Office of Registration and Records. The application is completed by the student and is then validated by the Cashier when the student pays his graduation fees. The application is then returned to the Office of Registration and Records.

A student who expects to be graduated at the close of the fall or winter quarters must apply for graduation and pay the graduation fee prior to the close of the quarter when he finishes his work.

A student who expects to complete his requirements in the spring or summer quarters must apply for graduation, must furnish his cap and gown measurements, and pay the graduation fee all prior to April 1 for Spring Commencement or July 1 for Summer Commencement.

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

Certification. Candidates for the degree B.S. in Ed. are responsible for fulfilling any special certification or accreditation requirements of the schools in which they will teach.

Cards of entitlement for teaching certificates or transcripts indicating that the student has completed his degree cannot be issued, even for one who finishes his work in the fall or winter quarters, until the student meets all requirements of this Section on Graduation Requirements.

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

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

Credit for Courses in Education. Courses in education and methods of teaching are accepted only toward the B.S. in Education degrees. Enrollment in these courses is permitted only to students who have been accepted as teacher education candidates.

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

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

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

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

AUDITING OF COURSES

Provisions for auditing courses may be made under certain circumstances.

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

Students **enrolled** for full time academic work must include any courses they **wish** to audit as part of the maximum load permitted them and may not change their registration from "audit" to "credit" or from "credit" to "audit" after the first ten days following registration.

VI. Teacher Education

APPLICATION AND ADMISSION

Admission to the University does not automatically admit to teacher education. Only students who have been admitted to teacher education may register for departmental methods courses and education courses (except Education 120, 121 and 232 where required). Admission to teacher education is governed by the following policies:

Curricula for High School and Special Area Teachers. Students who are pursuing a departmental curriculum which leads to the degree B.S. in Ed. must make application for admission to teacher education no earlier than the quarter in which they will complete forty quarter hours of credit in the University, and no later than the quarter in which they will have completed one hundred quarter hours of credit. Students in these curricula are not permitted to enroll in departmental methods courses and in courses in education until after they have been admitted to teacher education.

Elementary Education Curriculum. Students are permitted to enroll tentatively in the curriculum in elementary education to take the courses prescribed in this curriculum; they will submit applications for admission to teacher education at the same time as students in the secondary curricula. Enrollment in departmental methods courses and education courses (except Education 120, 121 and 232) must wait until after admission to teacher education.

Transfer and Extension Students. Transfer students entering the University will be expected to meet the requirements for admission to teacher education. Those with less than two years of accepted credit may not carry departmental methods or education courses until they have been admitted to teacher education. Those with more than two years of credit may carry such courses until they are eligible to make application.

Persons with a baccalaureate degree in any recognized college or university may take departmental methods courses and education courses without formal admission to teacher education, but may carry student teaching only by meeting the criteria for admission to teacher education.

Teachers in service may take departmental methods courses and education courses without admission to teacher education, but will be expected to make application for admission to teacher education immediately upon re-registering for residence work.

Late Application. Students who are following a B.S. or B.A. degree program and who have earned more than one hundred quarter hours may make application for admission to teacher

education with the understanding that they must make up existing deficiencies in the curriculum leading to the degree B.S. in Ed. and that no privileges will be accorded in the way of acceleration of either the professional or academic requirements of that curriculum or waiving of course pre-requisites.

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

- a. A formal application from the student.
- b. Grades which average 2.10 or higher.
- c. Evidence of proficiency in English usage.
- d. A recommendation from the student's major department.
- e. A recommendation from the University physician.
- f. A recommendation from the Speech and Hearing Clinic.
- g. A record of the scores made by the student in entrance tests and subsequent tests administered to students.
- h. A statement from the Dean of Student Personnel Services.

Application blanks for admission to teacher education and additional information may be secured at the Office of the Dean of the Faculty for Professional Education.

If students do not receive approval for admission to teacher education by the time they complete the quarter in which they will have earned 120 quarter hours (excluding nominal credit courses) or by the close of their third quarter at Eastern if transfer students who entered with 84 or more qr. hrs. of accepted credit (excluding nominal credit) their applications shall be denied.

TEACHING PRACTICUM

Academic Standards for Admission to the Teaching Practicum.

1. Admission to teacher education is prerequisite to admission.
2. Students in a four-year secondary education program must have completed Education 332 and 333 (or equivalent) in addition to general psychology and departmental methods.
3. Students pursuing the kindergarten, elementary or junior high school curricula shall have earned sixteen quarter hours of credit in education courses. Those following the kindergarten curriculum must have completed Education 334; those following the elementary curriculum must have completed Education 324 and 328; those following the junior high school curriculum must have completed Education 311, 312, and 313 or 314 or equivalent courses approved by the Director of the School of Elementary and Junior High School Teaching.

4. Students must have an over-all grade point average of 2.10 at the time of application for the teaching practicum, and no tentative assignments will be made for late applicants whose grade point average is below 2.10. Secondary school majors must also have a 2.10 average in their teaching fields at the time of application.
5. Secondary school majors must complete the required departmental "methods of teaching" courses in their major and minor fields before they may participate in the teaching practicum in these fields if the minor is ruled dissimilar to the major field.
6. Students, if at all possible, should meet the minimum requirement established by the Office of the Superintendent of Public Instruction for teaching various subjects. Where this cannot be done, assurance must be given that state requirements will be met by the time of graduation.
7. Transfer students must have been in residence at Eastern for at least one quarter or one summer term before they may be admitted.
8. Students who have earned a baccalaureate degree from another accredited college or university, who have been admitted to teacher education at Eastern Illinois University, and who meet the academic and residence requirements for admission to the teaching practicum, may enroll by obtaining permission from the Dean of the Faculty for Professional Education or the Director of Elementary and Junior High School Teaching.
9. All assignments are limited by available facilities and priority will be given to students enrolled in a four-year B.S. in Education degree program at the University.

Health Standards for Admission to the Teaching Practicum.

1. All students must have had a chest X-ray (negative) within one year previous to beginning teaching. Juniors may obtain a free X-ray from the State X-raymobile during its spring visit to Charleston. A negative skin test may be accepted in lieu of a chest X-ray.
2. All students must be in good health and free from communicable disease. To be assigned to the practicum for the first time, a student must secure a statement from the Health Service indicating that he is physically qualified to carry the responsibilities of a student teacher and as a regular teacher after employment.

Assignment to the Teaching Practicum.

1. Applications for secondary school assignments are made by filling out application and information blanks and returning them to the Dean of the Faculty for Professional Education

at least one quarter in advance of the quarter in which teaching is desired. Assignments are made by the coordinator and approved by the Dean of the Faculty for Professional Education. Secondary school majors who must teach in the Buzzard Laboratory School will be expected to clear with their coordinator who will consult with the Director of Elementary and Junior High School Teaching.

2. Applications for elementary and junior high school assignments are made by filling out application and information blanks and returning them to the Office of the Director of Elementary and Junior High School Teaching at least one full quarter in advance of the quarter in which the teaching is desired. Students are expected to work with their adviser in planning for the practicum. Assignments are made through the Director's office.
3. Students should arrange for their teaching assignments before registering for other subjects.
4. In planning their schedule of classes, students provide time for teaching according to one of the following patterns:
 - a. All day for one quarter.
 - b. Half-day for two quarters.
5. No student may register for more than a normal load, including the practicum during any quarter in which he has student teaching, except music majors who must do their recital during a quarter when doing student teaching and speech correction students who must do some clinical practice. The number of hours of outside work will be restricted.
6. Students enrolled in full-time off-campus teaching for one quarter may register for a maximum of sixteen (16) quarter hours (Education 441, 442, 443 and 444).
7. Students enrolled in either full-time or part-time off-campus teaching must assume the necessary transportation, room and board expenses. These charges should be considered as a part of the total cost of college attendance during the senior year.
8. Students enrolled in off-campus teaching are required to become familiar with and conform to all special regulations relative to these assignments as outlined in the Catalog and the Teaching Practicum Handbook.

Off-Campus Teaching Practicum.

The off-campus teaching practicum program at Eastern Illinois University affords qualified students an opportunity to obtain pre-service experience in a typical school situation. Students who expect to teach on the high school level will, in most cases, need to do their teaching outside of Charleston. The same will be increasingly true for those following an elementary or junior high school program.

Those who participate in full-time teaching should live in the community in which they do their teaching. These students report to the school every day, all day, and work with the school system for the quarter and follow the local school calendar.

In addition to obtaining experiences in directing the learning activities of boys and girls in the academic areas, these full-time secondary school practicum teachers frequently participate in: guidance programs of the school, audio-visual programs, study halls, the preparation of assembly programs, field trips, dramatics, and athletic contests. They also attend faculty, department curriculum, and P.T.A. meetings, and participate as faculty members in as many of the activities of the school and community as possible. The participant is expected to attend a series of seminar meetings related to the teaching practicum experience. Details regarding these seminars will be distributed through the office of the Dean of the Faculty for Professional Education.

In brief, the objectives of the full-time off-campus practicum program is to provide opportunities for these students to learn, through participation, to conduct the learning experiences and activities included in a typical teaching assignment. The number and kinds of experiences will vary. These are determined by: the needs of the student, his ability to pursue them with profit, his interest and initiative, his special talents, and the facilities and activities which the school system and community can provide.

On-Campus Teaching Practicum.

The R. G. Buzzard Laboratory Schools are operated primarily to provide observation and teaching practicum facilities for university classes and students. These Laboratory Schools include an elementary school of six grades and a junior high school. They are under the supervision of a Director of Elementary and Junior High School Teaching and a principal of the school. Departments of the university serve in an advisory capacity.

Classrooms in these schools are open to observers. Arrangements for observation (either individual or group) should be made through the Director of Elementary and Junior High School Teaching. The Director and the Laboratory School Supervisors will help university students and visiting teachers obtain the observation opportunities desired.

On campus teaching for elementary school majors is done in the Buzzard Laboratory School. Assignments are made through the Director of Elementary and Junior High School Teaching.

VII. Teacher Education Curricula

Requirements for the Degree, Bachelor of Science in Education

(Students who entered Eastern Illinois University prior to September 1, 1961 consult earlier catalogs.)

I. GENERAL REQUIREMENTS

(Subject to modification by exemptions described in Section V.)

English Composition, freshman level (English 120, 121)—8 q. hrs.

English Composition, sophomore level (English 220)—4 q. hrs.

Speech 131—4 q. hrs.

Natural Sciences (see Section IV for definition)—16 q. hrs.

Social Studies (see Section IV)—20 q. hrs.

Humanities (see Section IV)—24 q. hrs.

Mathematics (see Section IV)—4 q. hrs.

Health Education (Health Education 120)—4 q. hrs.

Physical Education Service Courses—(6)

II. PROFESSIONAL REQUIREMENTS

Professional Education (Education 332, 333, 445)—12 q. hrs.

Psychology (Psychology 231)—4 q. hrs.

Methods (see Section IV)—0 to 8 q. hrs.

Teaching Practicum—12 q. hrs. (A maximum of 16 q. hrs. may be earned.)

NOTE: Credit listed in parentheses is nominal credit to be earned in addition to 192 q. hrs. required for graduation.

III. MAJORS AND MINORS

In curricula for the Standard High School Certificate, a major of at least 48 quarter hours and a minor of at least 32 to 36 quarter hours are required. In curricula for the standard Special Certificate in Music, Art, Women's Physical Education, Industrial Arts, Manual Arts Therapy, Home Economics, and Speech Correction, a minor is not required. The courses for majors and minors are prescribed.

Candidates in Elementary Education follow a curriculum designed for the standard Elementary Certificate. Elementary majors see elementary curriculum for professional requirements.

IV. DEFINITIONS AND RESTRICTIONS

Natural Sciences. The natural sciences are classified in two fields: biological sciences and physical sciences. The biological sciences comprise botany, zoology (including physiology), and general biology. The physical sciences comprise physics and chemistry and general physical science. Twelve quarter hours of the natural science requirement must be in one field, except that this provision does not apply to students in the School of Elementary and Junior High School Teaching where the general requirements are eight hours in each field. (For students who entered prior to September 1, 1963, the total science requirement is 12 q. hrs. in one field.)

Social Studies (except psychology). The social studies are defined to include history, political science, economics, sociology-anthropology, and geography. At least 12 q. hrs. must be taken in one of these subjects. At least 4 q. hrs. must be in United States History.

Humanities. This area is defined to include three groups of subjects:

Group A — Philosophy and Literature

Group B — Music and Art

Group C — Foreign Languages

The normal requirement of 24 q. hrs. must be met by taking 12 q. hrs. in each of two of these groups. Where an approved course in literature in a foreign language is offered toward Group A it may not simultaneously satisfy a requirement under Group C.

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

Acceptable Unit. In defining exemptions below, an acceptable unit is defined as two semesters of high school work in the same subject taken five periods per week with a B average by a student who ranked in the upper two-thirds of his high school class.

Methods Courses. Prospective secondary teachers must take a 4 q. hr. course in methods of teaching in their major field unless the Vice President for Instruction rules that methods work is contained in other courses. Where the major and the minor are ruled dissimilar by the Vice President for Instruction, a methods course must also be taken in the minor.

V. EXEMPTIONS

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

The natural science requirement may be reduced by 4 q. hrs. if the student presents one or more acceptable units in a science

in which laboratory work was required. The remaining 12 q. hrs. must be taken in the field different from that in which the exemption is taken. (This paragraph applies only to students who entered Eastern after September 1, 1963.)

The social science requirement may be reduced by 4 q. hrs. for one acceptable unit in high school or by 8 q. hrs. for two or more acceptable units. In case exemptions are granted, the requirement of 12 q. hrs. in a single subject is reduced to 8 q. hrs. This does not alter the requirement that 4 q. hrs. must be taken in a college course in United States History.

The humanities requirement may be modified by exemptions as follows:

If Group C is chosen, the 12 q. hrs. requirement will be considered as completely satisfied by two acceptable units in a single language. A student with less than two acceptable units will meet the total requirement when he has passed the third quarter college course or any more advanced course in that language.

Regardless of exemptions, a student must take a minimum of 16 q. hrs. of college work in the humanities.

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

Exemptions do not establish college credit; instead, 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.

OUTLINES OF TEACHER EDUCATION CURRICULA

The outlines which follow define the requirements for the majors in the elementary, secondary, and special fields as well as the minors in the secondary field. While advisers will help students to make decisions regarding choice of courses, *it is the responsibility of the student to meet all of the requirements for his graduation* and to know and observe all of the academic rules, including the rules governing admission to the courses entered on his program.

CURRICULUM FOR ELEMENTARY TEACHERS

This curriculum is intended to prepare for teaching in kindergarten through grade eight of the public schools. The degree Bachelor of Science in Education is conferred upon its completion, and graduates are recommended for an Elementary Certificate.

FRESHMAN YEAR	Qtr. Hrs.	JUNIOR YEAR	Qtr. Hrs.
English 120, 121	8	Mathematics 320 or 325, P.E. 360	4
Education 120, 121	2	Education 324, 327, 328, 329	16
History (one of) 244, 245, 246, 247, 248	4	Music 328	4
Life Science 116, 117	8	Subject Area Concentration and Electives	12
Music 120, Art 140	8	Humanities (Group A or C)	4
Mathematics 122, 123	6	English 322 ¹ , Education 334 ²	8
Geography 150, H. Ed. 120	8		
Fine Arts Elective	4		
Physical Education (year) (3)			
SOPHOMORE YEAR	Qtr. Hrs.	SENIOR YEAR	Qtr. Hrs.
English 220	4*	Education 441, 442, 443	12
Education 232	4	Education 445	4
Physical Science 100, 101	8	Subject Area Concentration and Electives	32
Art 244 or Ind. Arts 224 or 225	4		
History (one of) 233, 234, 235	4		
History Elective, S. S. Elec- tive	8		
Psychology 231, Speech 131	8		
Humanities (Group A or C) ³	8*		
Physical Education (year) (3)			

* Subject to exemptions as outlined in the General Requirements for the degree.

¹ Required in Early Childhood Sequence.

² Required of Prospective Kindergarten Teachers.

³ Four q. hrs. American literature must be earned as a humanities or as elective credit.

Students may offer as elective credit in the Elementary education curriculum 4 qtr. hrs. earned in choral ensemble in the music organizations.

No later than the spring quarter of the freshman year students are required to select a major area of concentration (24 qtr. hrs.) and a minor area of concentration (12 qtr. hrs.) from the following subject areas: Art, Art-Industrial Arts, Biological Science, English, Foreign Language, Geography, History, Library Science, Mathematics, Music, Physical Education, Physical Science, Social Studies, Speech and Speech Correction.

ELEMENTARY EDUCATION — SPEECH CORRECTION

This program requires 200 quarter hours for graduation if the student has no exemptions. Students with no exemptions will be expected to take 13 quarters to complete the program. Successful completion of this program will result in certification as an elementary teacher and a speech correctionist.

CURRICULUM FOR JUNIOR HIGH SCHOOL TEACHERS

This curriculum is intended to prepare for teaching in grades 7, 8, and 9 of the public schools. The degree Bachelor of Science in Education is conferred upon its completion, and graduates are recommended for a secondary certificate.

FRESHMAN YEAR	Qtr. Hrs.	JUNIOR YEAR	Qtr. Hrs.
English 120, 121	8	Humanities	4*
Life Science 116, 117	8	Psychology 352	4
History (one of) 244, 245, 246, 247, 248	4	Education 311, 312, 313 or 314 12	
Mathematics 125	4*	Subject Area Specialization and Elective	28
Education 120, 121	2		
Humanities	12*		
Geography 150, H. Ed. 120	8		
Subject Area Specialization	4		
Physical Education (year)	(3)		
SOPHOMORE YEAR	Qtr. Hrs.	SENIOR YEAR	Qtr. Hrs.
English 220, Humanities ¹	12*	Education 441, 442, 443	12
Physical Science 100, 101	8	Education 445	4
History (one of) 233, 234, 235 4	4	Subject Area Specialization and Elective	32
Social Studies Elective	4*		
History Elective	4*		
Psychology 231, Speech 131	8		
Education 232	4		
Elective	4		
Physical Education (year)	(3)		

* Subject to exemptions as outlined in the General Requirements for the degree.

¹ Four q. hrs. of American literature must be earned as a humanities or as elective credit.

No later than the spring quarter of the freshman year students are required to select a major field of specialization (48 qtr. hrs.) and a minor field of specialization (30-36 qtr. hrs.) or three fields of specialization (30-36 qtr. hrs. in each area). Fields of specialization may be selected from the following areas: Art, Biological Science, English, Foreign Language, Geography, History, Home Economics, Industrial Arts, Library Science, Mathematics, Physical Education, Physical Science, Social Studies, and Speech.

It is recommended that students give strong consideration to selecting their fields of concentration in Mathematics, Physical Science, or English-Social Studies.

AREAS OF CONCENTRATION

Areas of concentration consist of courses taken in addition to the university General Education Requirements. No deviation from courses indicated here is permitted without approval of the Dean, Student Academic Services.

ART

- Area I 244, 245, 309, 319, 465, elect 4-8 qt. hrs. If Art 244 is taken as a general curriculum requirement (hereafter referred to as GCR), select 8 qt. hrs.; if 244 is not taken as a GCR select 4 qt. hrs.
- Area II 244, select 8-12 qt. hrs. from 245, 309, 319, 465. If Art 244 is taken as a GCR select 12 qt. hrs.; if Art 244 is not taken as a GCR, select 8 qt. hrs.

ART — INDUSTRIAL ARTS

Art — $\frac{1}{2}$ Industrial Arts — $\frac{1}{2}$

- Area I Art 244—if taken as a GCR, select 12 qt. hrs. from following courses. If Art is not taken as a GCR, select 8 qt. hrs. Art 242, 245, 247, 309, 319, 465.
Ind. Arts 224 or 225. If either course is taken as a GCR the other course 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 qt. hours from Ind. Arts 134, 231, 259, 452.

Art $\frac{2}{3}$ Industrial Arts — $\frac{1}{3}$

- Area I Art 244, if taken as GCR, select 16 qt. hrs. from following courses. If not taken as GCR select 12 qt. hrs. Art 242, 245, 247, 309, 319, 465.
Industrial Arts 224 or 225, 452.

Art — $\frac{1}{3}$ Industrial Arts — $\frac{2}{3}$

- Art 244—either as GCR or part of concentration. If taken as GCR, select 8 qt. hrs. from following: if not taken as GCR select 4 qt. hrs. Art 242, 245, 247, 309, 465.
Industrial Arts 224 or 225, select 8 qt. hrs. from 134, 231, 259.

BIOLOGICAL SCIENCE

- Area I Botany 218, 234, Zoology 338, 350, elect 4 qt. hrs. botany and 4 qt. hrs. Zoology.*
- Area II Botany 218, Zoology 338, elect 4 qt. hrs. botany or Zoology.*

(*May not elect Botany 120, 121 or Zoology 120, 121, 122.)

ENGLISH

- Area I 126, 246 or 247, 471 or 472, elect 12 qt. hrs.
- Area II 126, 246 or 247, 471 or 472.

FOREIGN LANGUAGE

Any foreign language may be used to satisfy these requirements. Placement in a foreign language of students who wish to continue a language begun in high school must conform to requirements indicated under the foreign language section of this catalog.

Area I 24 qt. hrs. in a foreign language.

Area II 12 qt. hrs. in a foreign language.

GEOGRAPHY

Area I 151 or 302, 300, 360 or 387, select 12 qt. hrs. from 370, 451, 452, 453, 454, 455.

Area II 151 or 302, 300, 360 or 387.

HISTORY

Area I Select 8 qt. hrs. from 233, 234, 235; select 8 qt. hrs. from 244, 245, 246, 247, 248; select 8 qt. hrs. from courses numbered above 300.

Area II Select 4 qt. hrs. from 233, 234, 235; 4 qt. hrs. from 244, 245, 246, 247, 248; 4 qt. hrs. from courses numbered above 300.

INDUSTRIAL ARTS

Area I 134, 140, 231, 259; 8 qt. hrs. from 224, 225, 452.

Area II Select 4 qt. hrs. from 134, 140, 150, 231, 259; 8 qt. hrs. from 224, 225, 452.

LIBRARY SCIENCE

Area I 24 qt. hrs. from 320, 330, or 332, 430, 450, 460, 490.

Area II 12 qt. hrs. from 320, 330, 332, 460.

MATHEMATICS

Area I 130, 131¹, 134², 227, 8 qt. hrs. from courses numbered above 200.

Area II 130, 131¹, 134².

¹ Students admitted to 131 on basis of placement test, substitute 225 for 130.

² Students admitted to 134 on basis of placement test, substitute 4 qt. hrs. numbered above 200 for 131 and 225 for 130.

MUSIC

Area I Music 221, 222, 225, 4 qt. hrs. from 320, 321, 322; 8 qt. hrs. from 136, 137, 138, 146, 147, 148, 200, 201, 231, 320, 321, 322, 449, applied music, Ensemble.

Area II 221, 222, 225.

PHYSICAL EDUCATION

- Area I PEW 361, 362, 363, 458, 8 qt. hrs. from PEW 131, 132, 356, PEM 228, 351.
- Area II PEW 361, 362, 363.

PHYSICAL SCIENCE

- Area I Physics 130¹, 131, 132, select one of following 12 qt. hr. sequences; Chem. 120², 121, 122 or 150, 151, 152.
- Area II Select 8 qt. hrs. from chemistry or physics and 4 qt. hrs. in the other subject.

¹ Physical science 100 may be substituted for physics 130, but it is recommended that physics 130 be substituted for 100 and another physics course be used to meet general requirement. Credit cannot be earned in physical science 100 and physics 130.

² Physical Science 101 may be substituted for Chem. 120 but it is recommended that chem. 120 or 150 be substituted for physical science 101, and another chemistry course be used to meet general requirement. Credit cannot be earned in physical science 101 and chemistry 120 or 150.

SOCIAL STUDIES

This concentration includes credit earned under General Education Requirements. For the student with 4 or 8 qt. hrs. of exemption, the requirements presented here will be reduced by 4 or 8 qt. hrs. in the subject in which the exemption is granted.

- Area I History 233, 234, 235; 8 qt. hrs. from History 244, 245, 246, 247, 248; Geography 150, 300, 302; 4 qt. hrs. in Political Science; 8 qt. hrs. in Anthropology, Sociology, Economics.
- Area II 8 qt. hrs. from History 233, 234, 235; 8 qt. hrs. from History 244, 245, 246, 247, 248; Geography 150, 300; 4 qt. hrs. from Anthropology or Sociology; 4 qt. hrs. from U. S. History, Political Science or Economics.

SPEECH

- Area I Theater Arts 132, 133, 333, 431, Speech 232, Speech Correction 260.
- Area II Theater Arts 132, 133, Speech 232 or Theater Arts 431.

SPEECH CORRECTION

- Area I Theater Arts 132, 133, Speech Correction 260, 451, 452, 456. (pre-requisite waived)
- Area II Theater Arts 132, 133, Speech Correction 260.

FIELDS OF SPECIALIZATION

ART

- Field II 140, 244, 247, 309, 319, 465, select 12 qt. hrs. other than 245.

BIOLOGICAL SCIENCE

- Field I Life Science 116, 117, Botany 218, 230, 234, 4 qt. hrs. botany elective; Zoology 212, 336, 338, 350, 8 qt. hrs. elected from botany or zoology.
- Field II Life Science 116, 117, Botany 218, 234, 4 qt. hrs. botany elective; Zoology 338, 350, 4 qt. hrs. Zoology elective; 4 qt. hrs. elective in Botany or Zoology.
(Students may not elect Botany 120, 121 or Zoology 120, 121, 122)

ENGLISH

- Field I 120, 121, 220 or 4 qt. hrs. elective, 250 or equivalent American Literature course, Speech 131, English 126, 246 or 247, 251 or 252, 326 or 327, 12 qt. hrs. English electives.
- Field II 120, 121, 220 or 4 qt. hrs. elective 250 or equivalent American Literature course, Speech 131, English 126, 246 or 247, 471 or 472, 4 qt. hrs. English elective.

FRENCH

See special provisions under foreign language section of this catalog for placement when continuing language commenced in high school.

- Field I 130, 131, 132, 230, 231, 232, 233, 334, 335, 340, 8 qt. hrs. French electives selected from 450, 451, 452, 453, 454, 455.
- Field II 130, 131, 132, 230, 231, 232, 333, 334, 340.

GERMAN

- Field I 130, 131, 132, 233, 234, 235, 340, 353, 354, 355; 8 hrs. selected from 453, 454, 455, 456, 457, 458.
- Field II 130, 131, 132, 233, 234, 235, 340, 353, 354.

LATIN

- Field I 120, 121, 122, (210, 211, 212 or 220, 221, 222), (330, 331, 332, or 343, 344, 345), 340, 8 qt. hrs. from 330, 331, 332, 343, 344, 345, 450, 451, 452.
- Field II 120, 121, 122, (210, 211, 212 or 220, 221, 222), 330, 331, 340.

RUSSIAN

Field II 140, 141, 142, 250, 251, 252, 360, 361, 363.

SPANISH

Field I 130, 131, 132, 230, 231, 232, (310, 311, 312 or 336, 337, 338), 340, 8 qt. hrs. from 453, 454, 455, 460, 461, 462.

Field II 130, 131, 132, 230, 231, 232, (310, 311 or 336, 337), 340.

GEOGRAPHY

Field II 140, 150, 142 or 300, 151 or 302, 360 or 387; elect 16 qt. hrs. from 370, 451, 452, 453, 454, 455, 470.

HISTORY

Field II History 233, 234, 235; select 12 qt. hrs. from 244, 245, 246, 247, 248; elect 12 qt. hrs. from courses numbered 300 or above.

HOME ECONOMICS

Field II 101, 210, 211, 231, 245, 303, 346 or 347, elect 12 qt. hrs. from 131, 230, 320 or 420, 346, 347.

INDUSTRIAL ARTS

Field II 134, 140, 150, 225, 231, 259, 341 (pre-requisite waived), 452, elect 4 qt. hrs. from 135, 232, 260, 300 or 352.

LIBRARY SCIENCE

Field II Select 32 qt. hrs. from 320, 330 or 332, 430, 450, 460, Education 487, 488, 490.

MATHEMATICS

Field I 122, 123, 130¹, 131², 134, 227, 235, 236, 470, elect 14 qt. hrs. from courses numbered 200 or higher (Education 314 may be used as elective).

Field II 122, 123, 130¹, 131², 134, 227, 235, 4 qt. hrs. from courses numbered 200 or higher.

¹ Students admitted to Math. 131 on basis of placement test should substitute 225 for 130.

² Students admitted to Math. 134 on basis of placement test may substitute for 131 any 4 qt. hr. mathematics course numbered above 200, and should substitute 225 for 130.

MEN'S PHYSICAL EDUCATION

- Field II 120, 227, 340, 452, select 4 qt. hrs. from 203, 204, 205, 206, 207, 208; select 4 qt. hrs. from 210, 211, 212, 213, 214, 215, 217, 218; select 8 qt. hrs. from PEM 121, 244, 351, 461, PEW 131, 132, 356.

WOMEN'S PHYSICAL EDUCATION

- Field II W.P.E. 130, 131, 132 or 356, 233 or 234, 346, 353, 363, 458; select 4 qt. hrs. from 235, 336, 362, 450, 227, 228, 244, 351, Health Educ. 320.

PHYSICAL SCIENCE

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

- Field I Physics 130¹, 131, 132, Chemistry 120², 121, 122 or 150, 151, 152 select 24 qt. hrs. from Physics and/or Chemistry courses.
- Field II Physics 130¹, 131, 132, Chemistry 120², 121, 122 or 150, 151, 152 select 12 qt. hrs. from Physics and/or Chemistry courses.

¹ Physical Science 100 may be substituted for Physics 130, or Physics 130 may be substituted for Physical Science 100.

² Physical Science 101 may be substituted or chemistry 120 but not for Chemistry 150. Chemistry 120 or 150 may be substituted for Physical Science 101.

SOCIAL STUDIES

- Field I History 233, 234, 235, select 12 qt. hrs. from History 244, 245, 246, 247, 248; Geography 150, 300, 302; select 4 qt. hrs. Political Science, 4 qt. hrs. Economics, 4 qt. hrs. Anthropology or Sociology.
- Field II History 233, 234, 235, select 12 qt. hrs. from History 244, 245, 246, 247, 248; Geography 150, 300, 302.

SPEECH

- Field II English 120, 121, Speech 131, 232, Theater Arts 132, 133, 445, Speech Correction 260; select 4 qt. hrs. from Speech 330, 332, 352, Theater Arts 244, 257, 333, 357.

ELEMENTARY EDUCATION — SPEECH CORRECTION*

FRESHMAN YEAR		JUNIOR YEAR	
	Qt. Hrs.		Qt. Hrs.
English	8	Educ. 324, 327, 328, 329	16
Life Science	8	Math. 320 or 321; PEW 360	4
Mathematics	6	Music 328	4
Education	2	Speech 451, 452, 453	12
Speech 131, Theater Arts 132, 133	12	Humanities (Group A or C)	12*
Art 140, Music 120	8		
Geog. 150, H. Ed. 120	8		
Phy. Educ. (year)	(3)		
SOPHOMORE YEAR		SENIOR YEAR	
	Qt. Hrs.		Qt. Hrs.
English 220, History Elective	8**	Education 441, 442, 443, 445	16 ¹
Psychology 231, Educ. 232	8	Psychology 450, 451	8
Phys. Science 100, 101	8	Fine Arts Elective (Humanities Group B)	4*
History (one of) 244, 245, 246 247, 248	4	Social Studies Elective	4*
History (one of) 233, 234, 235	4	Speech 455, 456, 457, 458	16
Art 244 or Ind. Arts 224 or 225	4	(Recommended electives: Educ. 444, Psychology 360, 361)	
Humanities (A or C)			
Am. Lit	4		
Zoology 225	4		
Speech 254, 260	8		
Phy. Educ. (year)	(3)		

* Effective January 1, 1965, The American Speech and Hearing Association recognizes only the master's degree in speech and/or hearing rehabilitation as adequate professional preparation. Students in this curriculum should plan to earn the master's degree as soon as possible.

**Subject to exemptions as outlined in the General Requirements for a degree.
¹ 8 qt. hrs. in elementary student teaching and 4 qt. hrs. in speech correction.

CURRICULA FOR HIGH SCHOOL AND SPECIAL AREA TEACHERS

The degree Bachelor of Science in Education is conferred on completion of the general requirements, the professional requirements, and the major and minor requirements as set forth on page 110. Graduates are recommended for a Standard High School Certificate or a Standard Special Certificate, depending upon the major requirements they have met.

For some majors, minors are not required, but students are urged to choose electives that apply toward minors.

When a student applies for graduation, his progress toward fulfilling graduation requirements is evaluated by the Dean (Director) of the College (School) in which he is enrolled. Final approval for graduation takes place after satisfactory completion of all requirements and is a responsibility of the Dean of Student Academic Services.

Because of limited facilities in the vicinity of Charleston, students should plan to register for four courses in the teaching practicum during one quarter.

The following majors and minors are acceptable for graduation in the teacher education curricula for secondary schools and should satisfy every requirement for teaching the subject in an approved school in Illinois. It should be noted, however, that certification to teach in a general field (e.g., business, social science, etc.) may not permit the teaching of a specific subject in that field. For details consult Bulletin No. 162 prepared by the Office of the Superintendent of Public Instruction. A four-hour methods course must be taken in the major (except where covered in the course work) and also in the minor if ruled dissimilar by the Vice President for Instruction.

Courses in the major are separated from collateral courses by a slant (/). Those in the major precede the slant, and those considered collateral follow the slant.

Quarter hour totals in each subject include only the courses in the major, excluding the collateral offerings.

Where a minor is cited, but no major, pursuit of the minor results in meeting the minor requirement for a Standard High School Certificate only.

ART

Special Certificate: Thirty-one courses. 124 qtr. hrs. Art 100, 101, 110, 111, 160, 205, 225, 260, 261, 262, 270, 340, 341, and nine elective courses in art. Each student selects one major area (six or seven courses) and one minor area of concentration (three or two courses) in art. Study in at least two phases of a major area must be included in each student's program; work in a minor area must be confined to study in only one of the minor areas shown below:

Major Area I: Painting, Drawing, Printmaking.

Major Area II: Ceramics, Jewelry, Sculpture, Weaving.

Minor Areas: Art Education, Art History, Commercial Design, Major Area I, Major Area II.

High School Certificate: Fifteen courses. 60 qtr. hrs. Art 100, 101, 110, 111, 160, 205, 225, 260, 261, 262, 270, 340, and three elective courses in art.

Art Minor: Eight courses. 32 qtr. hrs. Art 100 or 101; 205; 110, or 111, or 140; 225, or 270, or 334; 244, or 340; 160, or 260, or 261, or 262, or 360, or 361, or 362; and eight hours elective credit in Art.

BIOLOGICAL SCIENCE

MINOR ONLY. (For majors other than Botany and Zoology.)

Botany: Eleven courses. 44 qtr. hrs. Botany 120, 121, 222, 335 plus two electives and Zoology 110, 111, 212 or 120, 121, 122.

Zoology: Eleven courses. 44 qtr. hrs. Zoology 110, 111, 212 or 120, 121, 122; Zoology 214 or 225; Zoology 343; Physiology 345 or Zoology 350 and Botany 120, 121, 222.

Botany and Zoology: Twelve courses. 48 qtr. hrs. Botany 120, 121, 222, 234 or 335; Zoology 110 or 120; Zoology 111 or 122; Zoology 343; Physiology 345 or Zoology 350; and elect four hours in either Botany or Zoology.

Biology: An eight (8) or twelve (12) hour sequence in Life Science or Biology plus the following additional work in Botany and Zoology which must total thirty-six (36) hours:

Plan A—Twelve hour sequence—Biology 126, 127, 128; Botany 218, 234 plus one Botany elective; Zoology 343, 350 plus one Zoology elective numbered 200 or above.

Plan B—Eight hour sequence—Life Science 116, 117; the same as Plan A but with one additional elective in either Botany or Zoology numbered 200 or above.

NOTE: Students may not have credit for Biology 126 and Botany 120 or Zoology 120. Those taking Biology 127 may not elect Zoology 121.

Botany Major, Zoology Minor: (Standard High School Certificate.) Twenty courses. 80 qtr. hrs. Botany 120, 121, 222, 230, 231, 340, plus any seven (7) Botany electives approved by the adviser; Zoology 110, 111, 212, plus any four (4) Zoology electives approved by the adviser; Chemistry 120, 121, 122, or 150, 151, 152; Geography 140 or 141.

Botany Minor, Major other than Zoology: See "Biological Science."

BUSINESS

Accounting and Secretarial: (Standard High School Certificate.) Sixteen courses. 64 qtr. hrs. Business 141, 142, 212; (two of) 111, 112, 210, 211; (three of) 123, 124, 125, 223, 224, 225; Business 230, 231, 232; 346, 347; (two of) 470, 471, 472, 473; and one elective in Business; Economics 254, 255, 256.

Accounting: (Standard High School Certificate.) Sixteen courses. 64 qtr. hrs. Business 141, 142, 212; (two of) 111, 112, 210, 211; Business 230, 231, 232; (three of) 354, 355, 356, 460, 461, 462, 463; Business 346, 347; Business 470 and (one of) 471, 472, 473; and one elective in Business; Economics 254, 255, 256.

Secretarial: (Standard High School Certificate.) Sixteen courses. 64 qtr. hrs. Business 140, 141, 142; 210, 211, 212; 223, 224, 225; 346, 347; 472 473, and three electives in Business; Economics 254, 255, 256.

BUSINESS MINORS

Secretarial: Eight courses. 32 qtr. hrs. (three of) Business 110, 111, 112, 210, 211; (three of) 123, 124, 125, 223, 224, 225; 212; 472 or 473.

Typewriting and Bookkeeping: Eight courses. 32 qtr. hrs. (three of) Business 110, 111, 112, 210, 211; Business 230, 231, 232, 212; 470 or 473.

Bookkeeping, General Business, and Business Law: Eight courses. 32 qtr. hrs. Business 230, 231, 232, 141, 142, 446, 447; and 470 or 471.

General Business, Salesmanship, Retailing, and Business Law: Eight courses. 32 qtr. hrs. Business 140, 247, 248, 249, 250, 446, 447, 471.

CHEMISTRY

Standard High School Certificate: Fourteen courses. 56 qtr. hrs. Chemistry 150 or 120; 151 or 121; 152 or 122; 234, 235, 361; 340, 342, 343, 344, 345; 491, 492, 493; / Mathematics 134¹, 235 236, 345; Physics 130, 131, 132.

¹ Depending on the Mathematics Placement Test. See Mathematics section.

Chemistry Minor: Nine courses. 36 qtr. hrs. Chemistry 120 or 150; 121 or 151; 122 or 152; Chemistry 234, 343, 344; three additional courses in Chemistry and/or Physics.

ENGLISH

Standard High School Certificate: Fourteen courses. 56 qtr. hrs. English 126, 245, 246, 247, 250, 251; 326 or 327; 340, 450, and five courses in English or American literature or both. / Two years of a foreign language or the equivalent, restricted to one of the following: French, German, Latin, Spanish, or Russian with equivalence to be determined by the Foreign Language Department. History 343 and 344.

English Minor: Nine courses. 36 qtr. hrs. English 120, 121, 245, 246, 247; 326 or 327; two courses in English or American literature; English 340 except for those majoring in Speech or Foreign Language; / Speech 131.

FOREIGN LANGUAGES

French: (Standard High School Certificate.) Thirteen courses. 52 qtr. hrs. French 130, 131, 132¹; French 230, 231, 232²; or French 333, 334, 335; French 340; French 410, 411, 412 or French 450, 451, 452 or French 510, 511, 512. At least 12 quarter hours must be taken above 400. / History 235, 247.

¹ Students with background of high school units in French, see page 207.

² French 330, 331, 332 are required for French majors. Recommended to be taken during the junior or senior year.

German: (Standard High School Certificate.) Thirteen courses. 52 qtr. hrs. German 130, 131, 132¹; German 233, 234, 235¹; German 340; 353, 354, 355 or German 361, 362, 363²; German 410, 411, 412 or German 453, 454, 455² or German 510, 511, 512. At least 12 quarter hours must be taken above 400./ History 235, 248.

¹ Students with background of high school units in German, see page 207.

² German 354 or 410 and 361 are required for German majors. Recommended to be taken during the junior or senior year.

Latin: (Standard High School Certificate.) Thirteen courses. 52 qtr. hrs. Latin 120, 121, 122; Latin 220, 221, 222¹; Latin 310, 311, 312 or Latin 330, 331, 332; Latin 340; Latin 433, 434, 435 or Latin 450, 451, 452. At least 12 quarter hours must be taken above 400./ History 233, 244.

¹ Students with background of high school units in Latin, see page 207.

Russian: (Standard High School Certificate.) Thirteen courses. 52 qtr. hrs. Russian 140, 141, 142¹; Russian 250, 251, 252¹; Russian 340; Russian 360, 361, 362, 363; Russian 410, 411, 412. At least 12 quarter hours must be taken above 400./ Eight hours of history.

¹ Students with background of high school units in Russian, see page 207.

Spanish: (Standard High School Certificate.) Thirteen courses. 52 qtr. hrs. Spanish 130, 131, 132¹; Spanish 230, 231, 232¹; Spanish 321, 322, 323 or Spanish 330, 331, 332²; Spanish 340; Spanish 410, 411, 412 or Spanish 456, 457 or Spanish 510, 511, 512. At least 12 quarter hours must be taken above 400./ History 233, 234.

¹ Students with background of high school units in Spanish, see page 207.

² Spanish 330 or 412; 331 or 410 are required for Spanish majors. Recommended to be taken during the junior or senior year.

Foreign Language Minor: Each minor must consist of the third course in the first year of the language plus 20 quarter hours in more advanced courses in the language. Total of 24 qtr. hrs. plus credit in high school or college for pre-requisites to the third quarter of first year.

GEOGRAPHY

Standard High School Certificate: Thirteen courses: 52 qtr. hrs. Geography 150, 151; 141 or 142 or 140; 340; 36 hours of geography courses approved by the head of the Geography Department;/ History 233 or 234 or 235; Economics 254, 255.

Geography Minor: Nine courses. 36 qtr. hrs. Geography 140, 141, 142, 151, and five courses recommended by the department; or Geography 300, 301, 302, and six courses recommended by the department. (To meet state requirements for teaching geography, three additional courses are required from history, economics, sociology, or political science.)

HEALTH EDUCATION

Minor only: Eight courses. 32 qtr. hrs. Health Education 120, 320, Men's Physical Education 227, Physiology 345, Psychology 455, plus one or two courses from Biology 126, 127, 128, Zoology 120, 121, 225; and courses to make a total of eight selected from Home Economics 102, Botany 234, 335, Women's Physical Education 131, 300, and Health Education 330.

HISTORY

Standard High School Certificate: Thirteen courses. 52 qtr. hrs. History 233, 234, 235, 244, 245, 246, 247, 248 and five electives in history above 300; Economics 254, 255, 256; three courses in Sociology-Anthropology; three courses in Political Science; Geography 150; Social Science 340.

History Minor: Nine courses. 36 qtr. hrs. Any three of History 244, 245, 246, 247, 248; History 233, 234, 235, and three courses of advanced history electives.

HOME ECONOMICS

Special Certificate: Nineteen courses. 72 qtr. hrs. Home Economics 101, 102, 131, 201, 210, 211, 212, 230, 231, 245, 300, 301, 302, 320, 340, 345, 346, 347 and 431. Electives are unrestricted.

Home Economics Minor: Nine courses. 36 qtr. hrs. Home Economics 101, 210, 211, 231, 245, 303, 346 or 347 and twelve (12) hours to be selected from 131, 230, 320, 420, 346 or 347.

INDUSTRIAL ARTS

Special Certificate: Seventeen courses. 64 qtr. hrs. Industrial Arts 134, 135, 140, 150, 231, 232, 245, 265, 259, 260, 326, 336, 340, 352, 354, 380 and 382.

Industrial Arts Minor: Nine courses. 36 qtr. hrs. Industrial Arts 134, 140, 150, 231, 259, 341, 452 plus eight (8) hours to be selected from one of the following sequences: 135, 336 (Woods); 232, 233 (Drawing); 260, 360 (Printing); or 352, 354 (Metals).

JOURNALISM

Minor Only: Nine courses. 36 qtr. hrs. Journalism 210, 211, 212, 310, 311, and 312. Three courses in composition—English 120, 121, and 220 or any advanced composition course taught within the English Department. English majors may qualify for certification to teach journalism by completing the twenty-four (24) quarter hours offered in journalism courses. Persons majoring in all other fields must complete the thirty-six (36) quarter hours described above.

LATIN AMERICAN STUDIES

Standard High School Certificate: Eighteen courses. 72 qtr. hrs. Spanish, nine (9) courses. History 281, 282, 464, 465. Geography 351, 451. Anthropology 360. Political Science 481, 493.

NOTE: Completion of one major and one minor or three minors required for teacher certification.

LIBRARY SCIENCE

Minor Only: Six courses. 24 qtr. hrs. Library 320, 430, 450, 460; 330 or 332. The addition of Education 487 and 488 will be necessary for a minor in instructional materials. Students intending to minor in the field should work out their programs with the instructor.

MANUAL ARTS THERAPY

Major Only. (Special Certificate.) Sixteen courses. 60 qtr. hrs. Industrial Arts 134, 135, 136, 150; 231, 232, 259, 260, 245, 265; 340, 336, 326, 352, 354; 452;/ advanced psychology—twelve (12) quarter hours; Sociology—twelve (12) quarter hours.

MATHEMATICS

Standard High School Certificate: Twelve courses. 48 qtr. hrs. Mathematics 134, 225, 227 or 228, 235, 236, 340, 343, 344, 345, 470, 471, and Mathematics 350 or 460 or 480 or 490. (Some students are required to take one or more additional courses to satisfy prerequisites. See the description of Mathematics 134, for example.)

Mathematics Minor: Eight courses. 32 qtr. hrs. Mathematics 134, 225 or 343, 227 or 228, 235, 236, 340, 345, 470. The methods course, 340, may be omitted if the minor includes both 225 and 227. Students who omit 130 and 131 and include both 225 and 227 may complete a minor by taking seven (7) courses. Such students will be given, if they so request, for certification purposes only, two quarter hours of credit for their advanced work in high school mathematics. (Thirty (30) quarter hours are required for certification in mathematics.)

MUSIC

General Music Emphasis: (Special Certificate.) Twenty-eight courses. 72 qtr. hrs. (Hours necessary in Applied Music and Ensemble are in addition to the preceding total.) Music 123, 124, 125, 126, 127, 128, 136, 137, 138, 146, 147, 148, 200, 201, 204, 205, 230, 231, 232, 339, 340, 347, 351, 352, 353, 449, 450, and 453. Also ensemble and applied music./ Physics 120, 121, 122.

Vocal and Keyboard Emphasis: (Special Certificate.) Twenty-seven courses. 68 qtr. hrs. (Hours necessary in Applied Music and Ensemble are in addition to the preceding total.) Music 123, 124, 125, 126, 127, 128, 146, 147, 148, 200, 204, 230, 231, 232, 243, 244, 245, 339, 342, 347, 351, 352, 353, 442, 449, 450, and 453. Also ensemble and applied music./ Physics 120, 121, 122.

Instrumental Emphasis: (Special Certificate.) Twenty-eight courses. 72 qtr. hrs. (Hours necessary in Applied Music and Ensemble are in addition to the preceding total.) Music 123, 124, 125, 126, 127, 128, 136, 137, 138, 146, 147, 148, 200, 201, 204, 205, 230, 231, 232, 340, 347, 351, 352, 353, 449, 450, 453, and 455. Also ensemble and applied music./ Physics 120, 121, 122.

NOTE: Dependent upon the ability of the student, applied piano may substitute for Music 126, 127, and 128; applied voice may substitute for Music 136, 137, and 138.

MUSIC MINOR

Vocal Music: Eight courses. 24 qtr. hrs. Music 123, 124, 125, 230, 231, 340, 353, 449, plus four (4) quarters of applied piano and six (6) quarters of applied voice. Participation in university choral organizations each year of residence.

Instrumental Music: Eleven courses. 34 qtr. hrs. Music 123, 124, 125, 230, 231, 200, 201, 204, 205, 340, 353, 450, plus four (4) quarters of applied instrumental music. Participation in university instrumental organizations each year of residence.

PHYSICAL EDUCATION (MEN)

Standard High School Certificate: Thirteen courses. 48 qtr. hrs. Physical Education (Men) 120, 121, 150, 227, 244, 340, 451, 452; (one of) 203, 204, 205, 206, 207, 208; (one of) 210, 211, 212, 213, 214, 215, 217, 218; (three of) 347, 348, 349, 350, 357, 358, 359, 360, with at least two of these courses selected from PEM 347, 348, 349, 350. A student must demonstrate proficiency in six (6) activities other than those selected at the 200 level; students majoring in physical education (men) are required to participate in the teaching practicum in their minor subject./ Zoology 120, 121, 225; Physiology 345.

Physical Education (Men) Minor: Nine courses. 32 qtr. hrs. PEM 120, 227, 340, and 452; (one of) 203, 204, 205, 206, 207 or 208; (one of) 210, 211, 212, 213, 214, 215, 217, or 218; twelve (12) quarter hours in additional courses to be selected from PEM 121, 244, 347, 348, 349, 350, or 451. A student minoring in physical education (men) must demonstrate proficiency in four (4) physical education activities.

PHYSICAL EDUCATION (WOMEN)

Special Certificate: Fourteen courses. 56 qtr. hrs. (Activity courses not included in this total.) Physical Education (Women) 130, 131, 132, 233, 234, 235, 252, and PEM 244; PEW 336, 346, 353, 450, 451, 456; two (2) activity courses determined by divisional curriculum./ Health Education 320; Zoology 120, 121, and 225; Physiology 345.

Physical Education (Women) Minor: Eight Courses. 32 qtr. hrs. (The preceding total does not include activity courses.) PEW 233 or 234; 346; 353; 458; Health Education 120 or 320 or PEM 227; (three of) PEW 130, 131, 132, 233, 234, 252, 336, 351, 355, 356, PEM 227, 244, 351, Health Education 320. Eleven (11) activity courses also required.

PHYSICS

Standard High School Certificate. Thirteen courses. 52 qtr. hrs. Physics 130, 131, 132, 236, 239, 240, 340, 341, 342, 465; (one of) 461, 462; (one of) 466, 467; (one of) 468, 469;/ Mathematics 134, 235, 236, 345; (two of) Mathematics 350, 351, 460, 461; minimum of one year of chemistry recommended.

Physics Minor: Nine courses. 36 qtr. hrs. Physics 130, 131, 132; three (3) courses approved by the Physics Department plus three (3) additional courses in Physics and/or Chemistry.

PSYCHOLOGY

Minor Only: Eight courses. 32 qtr. hrs. Psychology 231, 351, and one or both of 352 and 447. The remaining psychology courses should be selected with the view of filling both the academic interests and professional aims of the student.

SAFETY AND DRIVER EDUCATION

Minor Only: Six courses. 24 qtr. hrs. To be used only as a second minor. Health Education 330, 331, 332; twelve (12) hours to be selected from Health Education 320, PEM 227, 461, 131, 300, Psychology 447, 455, or Political Science 112, 464.

SOCIAL SCIENCE

Standard High School Certificate: Nine core courses. 36 qtr. hrs. Economics 254, 255, 256; Anthropology 273; Sociology 271, 272; Political Science 110, 111, and one of the following: 100, 112, 220, 221, 222.

Eight additional courses. 32 qtr. hrs. Geography, one course; Economics, two or three courses; Political Science, two or three courses; Sociology and Anthropology, two or three courses.

All Social Science majors are required to take Social Science 340 and to minor in History: History 233, 234, 235, 246, 247, 248, and three (3) advanced courses.

Social Science Minor: Nine courses. 24 qtr. hrs. Include at least two (2) of the following sequences: Political Science 110, 111 plus 112 or 220 or 221 or 222; Economics 254, 255, 256; Anthropology 273, Sociology 271, 272. The remaining twelve (12) hours shall be selected from Anthropology, Economics, Geography, History, Political Science, and Sociology.

SPEECH

Standard High School Certificate: Twelve courses. 48 qtr. hrs. Speech 131, 230, 232, 340, 470, 471; Speech 352 or Theater Arts 333; Theater Arts 132, 133, 244, 257, 445;/ Speech Correction 260.

SPEECH MINOR

General Speech: Six courses. 24 qtr. hrs. Speech 131, 232, 340; Theater Arts 132, 133, 445;/ Speech Correction 260;/ English 120 and 121.

Public Address: Seven courses. 28 qtr. hrs. Speech 131, 230, 232, 332, 340; Theater Arts 132, 133;/ English 120 and 121.

SPEECH CORRECTION*

Special Certificate in Speech Correction: Twelve courses. 48 qtr. hrs. Speech Correction 254, 260, 262, 451, 452, 453, 455, 456, 457, and 458; Theater Arts 132 and 133;/ Psychology 450 and 451; (three of) Psychology 360, 452, 455, Education 469 or 328, 490 and 444 (in an academic subject). Zoology 225 must be included in the science requirement; the series Zoology 120, 121, 225 is permitted.

* Effective January 1, 1985, the American Speech and Hearing Association recognizes only the master's degree in speech and/or hearing correction as adequate professional preparation for clinical or school speech and/or hearing work. Students in this curriculum should plan to earn the master's degree as soon as possible.

THEATRE ARTS

Standard High School Certificate: Thirteen courses. 52 qtr. hrs. Theatre Arts 132, 133, 244, 257; Speech 232, 332, 340, 352; Theatre Arts 333, 357, 358, 445, 473.

Theatre Arts Minor: Seven courses. 28 qtr. hrs. Theatre Arts 132, 133, 244, 257, 445; Speech 340, 131;/ English 120 and 121.

ZOOLOGY

Zoology Major, Botany Minor: Twenty courses. 80 qtr. hrs. Zoology 110, 111, 212, 214, 215, 336, 340, 343, 350, 445, and three (3) advanced Zoology electives; Botany 120, 121, 222, 230, 231, 232 or 335, and one (1) advanced Botany elective; Chemistry 120, 121, 122 or 150, 151, 152; Geography 140.

Zoology Minor, Major other than Botany: See "Biological Science."

VIII. General College Curricula

The curricula described in this section are planned for purposes other than teacher education.

Programs with majors in a number of departments or concentrations in certain pre-professional fields lead to the degrees Bachelor of Science and Bachelor of Arts. A program in Latin American Studies leads to the degree Bachelor of Arts. A program in the School of Business leads to the degree Bachelor of Science in Business.

A number of two-year curricula lead to the Junior College Diploma.

The student's adviser will help in making decisions concerning the choice of courses, but it is the responsibility of the student to satisfy all of the requirements for the degrees or diplomas, to check his own eligibility to take courses and to observe the academic rules governing his program.

Requirements for the Degrees, Bachelor of Science and Bachelor of Arts

I. General Requirements

(Subject to modification by exemptions described in Section IV)

	B.S.	B.A.
English Composition (English 120, 121)	8 q. hrs.	8 q. hrs.
Speech	4 q. hrs.	4 q. hrs.
Natural Science	24 q. hrs.	12 q. hrs.
History	16 q. hrs.	16 q. hrs.
Social Studies (except history)	16 q. hrs.	16 q. hrs.
Humanities (except foreign language)	16 q. hrs.	24 q. hrs.
Mathematics	8 q. hrs.	8 q. hrs.
Foreign Languages	24 q. hrs.	36 q. hrs.
Health Education (Health Education 120)	4 q. hrs.	4 q. hrs.
Physical Education Service Courses	(6 q. hrs.)	(6 q. hrs.)

Credit listed in parentheses is nominal credit to be earned in addition to 192 q. hrs. of academic courses required for graduation.

II. Majors and Minors

A major of 48 qtr. hrs. and a minor of 24 qtr. hrs. are required for graduation. Certain courses may apply toward both the general requirements and the major or the minor.

III. Definitions and Restrictions

Natural Science. The sciences are classified in two fields, biological sciences and physical sciences. The biological sciences comprise general biology, botany, and zoology. The physical sciences comprise chemistry and physics. Twelve quarter hours in each of these fields are required for the degree Bachelor of Science while twelve quarter hours in one field are required for the degree Bachelor of Arts, both requirements being subject to provisions of exemptions outlined in Section IV.

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

Social Studies (except history). The social studies area is defined to include economics, political science, sociology, psychology, and geography. The normal requirement of 16 qtr. hrs. must include work in at least two of these subjects.

Humanities (except foreign language). This area comprises art, music, literature and philosophy. The normal requirement of 16 qtr. hrs. for the degree Bachelor of Science requires work in at least two of these subjects; the normal requirement of 24 qtr. hrs. for the degree Bachelor of Arts requires work in at least three of these subjects. Where an approved course in literature in a foreign language is offered toward the humanities requirement, it may not simultaneously count toward the requirement in foreign language.

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

Foreign Language. The normal requirement of 24 qtr. hrs. for the degree Bachelor of Science must consist of courses in a single language. The normal requirement of 36 qtr. hrs. for the degree Bachelor of Arts must also consist of courses in a single language.

Acceptable Unit. In defining exemptions in Section IV, an acceptable unit is defined as two semesters of high school work, taken five periods per week with a "B" average by a student who ranked in the upper two-thirds of his high school class.

IV. Exemptions

A student who presents two acceptable units 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 12 q. hrs. in biological science. A student who presents two acceptable units in biological science may have

the total science requirement reduced to 12 q. hrs. in physical science. Regardless of exemptions, the candidate for the degree, Bachelor of Science, or the degree, Bachelor of Arts, must take at least 12 q. hrs. in one of the fields in the science area.

A student who presents one or more acceptable units in history may have the history requirement reduced 4 q. hrs. for each acceptable unit to a maximum of 8 hrs., with this work taken in a subject different from that in which the exemption is granted.

A student who presents one or more acceptable units in any of the subjects in the humanities area may have the requirement reduced by 4 q. hrs.

A student who presents one or more acceptable units in college preparatory mathematics may have the mathematics requirement reduced by 4 q. hrs. for each such acceptable unit.

A student who presents two acceptable units in a given foreign language from high school may have the foreign language requirement reduced by 12 q. hrs. provided the remaining 12 q. hrs. are taken in the same language at the second year college level. Students who present four acceptable units of a single language from high school may omit the foreign language requirement for the degree, Bachelor of Science; or they may reduce the requirement for the degree, Bachelor of Arts, from 36 q. hrs. in a single language to 12 q. hrs. in that language at the third or fourth year level.

The definition of college preparatory mathematics for the degrees, Bachelor of Science and Bachelor of Arts, is the same as the definition given under the requirements for the degree, Bachelor of Science in Education. The provision for placement examination in foreign languages described for the degree, Bachelor of Science in Education, also obtains for the degrees, Bachelor of Science and Bachelor of Arts.

Exemptions do not establish college credit; instead, 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.

MAJORS AND MINORS ACCEPTABLE FOR THE GENERAL COLLEGE DEGREES

B.S. and B.A.

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

ART

Major:	Art 100, 101, 110, 111, 205	20 q. hrs.
	Art 260, 261, 262 or 225, 260, 270	12
	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
		<hr/>
		48 q. hrs.
Minor:	Twenty-four quarter hours in art courses as approved by the head of the department	24 q. hrs.

BOTANY

Major:	Botany 120, 121, 222, 230, 231	20 q. hrs.
	Electives in botany.	28
		<hr/>
		48 q. hrs.
	Correlative courses: one year in chemistry.	
Minor:	Botany 120, 121, 222, and twelve quarter hours approved by the head of the department.	24 q. hrs.

BUSINESS

Major:	Business 141, 142, 230, 247, 446, 451	24 q. hrs.
	Electives as approved by the Director of the School of Business.	24
		<hr/>
		48 q. hrs.
Minor:	Twenty-four quarter hours in one of the following: (1) shorthand and typing; (2) accounting and related courses; (3) law, marketing and management, as approved by the Director.	24 q. hrs.

CHEMISTRY

- Major: Completion of requirements for minor as listed below 24 q. hrs.
 Elective courses in chemistry approved by the head of the department. 24

 48 q. hrs.
- Minor: Chemistry 150, 151, 152 or 120, 121, 122; Chemistry 234; one of the following sequences: (1) Chemistry 235, 361; (2) 343, 344; (3) 343, 356; (4) 491, 492. 24 q. hrs.

ECONOMICS

- Major: Forty-eight quarter hours including Economics 320, 452, 453, 460, 480, 485 48 q. hrs.
- Minor: Economics 245, 255, 256, and twelve quarter hours as approved by the head of the department. 24 q. hrs.

ENGLISH

- Major: Completion of requirements for a minor as listed below. 24 q. hrs.
 Elective courses in English approved by the head of the department. 24

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

FOREIGN LANGUAGE

- Major: Forty-eight quarter hours in a language, including 12 quarter hours in courses numbered 400 or above. 48 q. hrs.
- Minor: Twenty-four quarter hours in a language. 24 q. hrs.

GEOGRAPHY

- Major: Forty-eight quarter hours in courses in geography approved by the head of the department. 48 q. hrs.
- Minor: Geography 141, 142, 150, and twelve quarter hours in geography courses approved by the head of the department. .. 24 q. hrs.

HISTORY

Major:	History 233, 234, 235, 244, 245, 246, 247, 248	32 q. hrs.
	Elective courses in history numbered above 300.	16
		<hr/> 48 q. hrs.
Minor:	Twenty-four quarter hours in history. . .	24 q. hrs.

HOME ECONOMICS

Major:	Home Economics 131, 300, 303, 320, 346, 347	24 q. hrs.
	Electives in home economics.	24
		<hr/> 48 q. hrs.
Minor:	Twenty-four quarter hours in home economics approved by the head of the department.	24 q. hrs.

INDUSTRIAL ARTS

Major:	Completion of requirements for the minor as listed below.	24 q. hrs.
	Elective courses in industrial arts approved by the head of the department. . .	24
		<hr/> 48 q. hrs.
Minor:	Three of the following sequences: (1) Industrial Arts 134, 135; (2) 231, 232; (3) 259, 260; (4) 140, 352; (5) 150, 300; (6) 380, 382; (7) 245, 264, 452.	24 q. hrs.

JOURNALISM

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

Major:	Mathematics 134, 235, 236, 343, 344, 345 .	24 q. hrs.
	Electives chosen from Mathematics 225, 228, 231, 350, 351, 460, 461, 470, 480, 490	24
		<hr/> 48 q. hrs.
Minor:	Mathematics 134, 235, 236, 345, and eight quarter hours chosen from courses acceptable for the major.	24 q. hrs.

MUSIC

Major:	Music 123, 124, 125, 230, 231, 232, 347, 351, 352, 353, 453	38 q. hrs.
	Applied music.	12
	Electives chosen from Music 200, 204, 243, 244, 245, 342, 442, 454, 455, 459, 460, 462, 463. Seniors who satisfy all prere- quisites may substitute courses chosen from Music 510, 511, 517, 530, 531, 532, 534, 536. Participation in one ensemble each quarter is required.	10
		<hr/> 60 q. hrs.
Minor:	Music 123, 124, 125, 230, 231, 353, and six quarter hours as approved by the Director of the School of Music.	24 q. hrs.

PHILOSOPHY

Minor:	Philosophy 300, 301, 302, and twelve quarter hours of courses in philosophy approved by the head of the department	24 q. hrs.
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PHYSICAL EDUCATION

Major:	Courses selected from P.E.M. 120, 121, 150, 228, 244, 351, 451, 452, 461, 470, 475, 528; P.E.W. 131, 132, 235, 336	48 q. hrs.
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PSYCHOLOGY

Minor:	Psychology 231, 351, and sixteen quarter hours of courses in psychology courses as approved by the head of the depart- ment.	24 q. hrs.
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PHYSICS

Major:	Physics 130, 131, 132, 236, 239, 240, 341, 342, 465	36 q. hrs.
	Electives in physics approved by the head of the department, selected from 461, 462, 466, 467, 468, 469	12
		<hr/> 48 q. hrs.

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

- Minor: Physics 130, 131, 132, and twelve quarter hours of courses approved by the head of the department. 24 q. hrs.

POLITICAL SCIENCE

- Major: Eight quarter hours chosen from Political Science 100, 110, 111, 112 8 q. hrs.
- Forty quarter hours chosen so that the entire major includes four of the following areas: (1) international affairs; (2) comparative foreign governments; (3) politics and political behavior; (4) public law and administration; (5) political theory. 40
-
- 48 q. hrs.
- Minor: Eight quarter hours chosen from Political Science 100, 110, 111, 112; sixteen quarter hours approved by the head of the department. 24 q. hrs.

SOCIOLOGY

- Major: Completion of the requirements for the minor as listed below. 24 q. hrs.
- Elective courses in sociology approved by the head of the department. 24
-
- 48 q. hrs.
- Minor: Anthropology 273; Sociology 271, 272; twelve quarter hours of elective courses approved by the head of the department. 24 q. hrs.

SPEECH

- Major: Completion of the requirements for the minor as listed below. 24 q. hrs.
- Elective courses in speech approved by the head of the department. 24
-
- 48 q. hrs.

Minor: Theatre Arts 132, 133, and sixteen quarter hours in speech courses approved by the head of the department. 24 q. hrs.

THEATRE ARTS

Major: Completion of the requirements for the minor as listed below. 24 q. hrs.
 Elective courses in theatre arts approved by the head of the department. . . 24

 48 q. hrs.

Minor: Theatre Arts 132, 133, and sixteen quarter hours in courses in theatre arts as approved by the head of the department 24 q. hrs.

ZOOLOGY

Major: Zoology 110, 111, 212, 214, 215, 236, 343, 350, 445 36 q. hrs.
 Elective courses chosen from 226, 227, 341, 344, 345, 347, 449, 451, 452, 453 . . . 12

 48 q. hrs.

Minor: Zoology 120, 121, 122 12 q. hrs.
 Electives in zoology. 12

 24 q. hrs.

PRE-PROFESSIONAL PROGRAMS

DIVISION OF PRE-ENGINEERING STUDIES

Combined Liberal Arts and Engineering Program

(Degree B.A. or B.S.)

This program includes approximately three years of study at Eastern Illinois University and approximately two years in the College of Engineering at the University of Illinois. The successful completion of the five-year program, made possible by an agreement with the University of Illinois, leads to a Bachelor of Science degree in some branch of engineering from the College of Engineering, University of Illinois, and a Bachelor of Arts or Bachelor of Science degree from Eastern Illinois University.

The purpose of this program is to provide engineering students with a broader background in liberal arts than is possible in the four-year engineering curricula. Graduates of this program will be well qualified for responsible positions in industry, business, or government, which require a combination of a thorough technical training and well-rounded cultural education.

Students planning to enroll in this curriculum are advised to include in their high school programs the high school subjects listed with the Pre-engineering Curriculum. The requirements at Eastern Illinois University include all the requirements for graduation with the degree Bachelor of Arts or Bachelor of Science except the requirement of a major and a minor and the requirement of 192 quarter hours of credit. The credits at Eastern must total 144 quarter hours (not including credits in required physical education courses) and shall include:

- (1) All the general requirements of the degree;
- (2) the following courses:
 - Chemistry 150, 151, 152, or (120, 121, 122)
 - Physics 130, 131, 132, 236, 239, 240
 - Mathematics 134, 235, 236, 345, 350, 351 or 460
 - Industrial Arts 131
- (3) Humanities sequence
- (4) Social Science sequence

The general requirements (1 above) for each degree are listed at the beginning of this section in the catalog and are subject to modification by exemptions as described there. The general requirements in physical science and mathematics are fulfilled by the required courses listed under (2). The humanities sequence (3) and the social science sequence (4) must be chosen from lists which will be furnished by the student's adviser.

After completing 96 quarter hours in the curriculum, a student may apply to the Pre-engineering Committee for admission as an Engineering Candidate. To be admitted the student must

have a grade point average of not less than 2.5 and be approved by the committee. The student must maintain the 2.5 grade point average in order to continue as an Engineering Candidate.

Upon satisfactory completion of the above requirements at Eastern Illinois University, a candidate who transfers to the College of Engineering, University of Illinois, and who receives a bachelor's degree there is eligible for a degree from Eastern Illinois University. This degree, Bachelor of Science or Bachelor of Arts, would be given with a "concentration" in science and engineering (in lieu of a major and minor). This does not rule out the possibility that a student might complete the requirements for one or more majors or minors and have these listed on his permanent record.

Students transferring into this curriculum from another college or university must have been in residence at Eastern Illinois University for at least one quarter before they may be admitted as an Engineering Candidate. A total of at least 64 quarter hours must be completed in residence on this campus.

DIVISION OF PRE-MEDICAL STUDIES

Pre-Medical Curricula

(Degree B.A. or B.S.)

Plan 1. This is a program by means of which a student who completes approximately three years of work at Eastern Illinois University and who transfers to the University of Illinois College of Medicine would upon completion of the required work be granted a B.A. or B.S. degree from Eastern Illinois University with major in zoology and a minor in chemistry. Students who enter other medical schools will be considered on an individual basis.

The requirements for graduation are as follows:

- (a) At least 144 quarter hours of undergraduate credit (not counting nominal credits and not including credits earned in fulfillment of requirement (d) below).
- (b) The completion of the general requirements for the degree, excluding Health Education 120.
- (c) *Undergraduate credits will include:*
Chemistry 150, 151, 152 (or 120, 121, 122)
Chemistry 343, 344, 234
Zoology 120, 121, 222, 230, 346 (110, 111, 212, 214, 215)
Physics 130, 131, 132
- (d) The successful completion of the first year at the University of Illinois College of Medicine.

Eastern Illinois University will accept 48 quarter hours of credit from the first year at the University of Illinois College of Medicine, providing that:

- (a) The student is in good standing in the College of Medicine.
- (b) The work taken at the College of Medicine does not duplicate work taken in pre-medical courses.
- (c) The student has completed his last 64 quarter hours of pre-medical study as a resident student at Eastern Illinois University.
- (d) The student meets all requirements for graduation from Eastern Illinois University for a B.A. or B.S. degree.

The following are the College of Medicine courses accepted by Eastern Illinois University:

- (a) Biochemistry 301, 302, and 303, consisting of 66 hours in lecture and 88 hours in laboratory for a total of 9 quarter hours.
- (b) Physiology 301, 302, and 303, consisting of 90 hours in lecture and 149 hours in laboratory, to be applied to a zoology major for a total of 15 quarter hours.
- (c) Histology, consisting of 64 hours in lecture and 160 hours in laboratory, to be applied to a zoology major for a total of 12 quarter hours.
- (d) Gross Anatomy, consisting of 64 hours in lecture and 160 hours in laboratory, to be applied to a zoology major for a total of 12 quarter hours.

Plan 2. This is a curriculum by means of which the student may earn a B.A. or B.S. degree at Eastern Illinois University before entering medical school. In this plan the student is required to complete all of the requirements for the degree of Bachelor of Science or Bachelor of Arts, with the exceptions of the major and minor requirement and Health Education 120. In lieu of a major and a minor, the student will complete an inter-departmental major, called the Premedical Studies major, as follows:

Chemistry 150, 151, 152 (or 120, 121, 122) 234, 343, 344

Chemistry electives—12 quarter hours

Zoology 120, 121, 222, 230, 346 (110, 111, 212, 214, 215)

Zoology electives—16 quarter hours

Physics 130, 131, 132

Mathematics 134, 235, 236

It should be noted that a student has the option of completing the B.A. or the B.S. degree with a departmental major and minor as has been done for some years.

Students in the pre-medical curricula (Plan 1 or Plan 2) will be required to make application for admission as Pre-medical Studies Degree Candidates at any time after completing 60 quarter hours and before completing 84 quarter hours of credit. These applications will be approved or disapproved by the Pre-medical Committee who will consider:

1. Scholarship
 - (a) not less than a 2.5 grade point average
 - (b) grades in science courses
2. Impressions and findings resulting from a personal interview
3. The advice of the University Physician as to the physical fitness of the candidate.

Students not approved as candidates will be dropped from enrollment in the Division and enrolled in the department of a major.

Students who fail to maintain a 2.5 average (based on credits at Eastern) will be transferred out of the Division and to the department of a major.

Transfer students must have been in residence at Eastern Illinois University for at least one quarter before they may be admitted as Pre-medical Studies Degree Candidates. They must complete at least 64 quarter hours in residence on this campus.

Students who expect to complete a B.A. or a B.S. degree with a departmental major and minor before entering medical school will be enrolled in the department of the major and should register as "affiliate members" of the Division of Pre-medical Studies. They should consult with the Chairman of the Division on matters pertaining to medical school requirements.

MEDICAL TECHNOLOGY

(Degree, B.S.)

Effective January 1, 1962, the pre-technical educational requirements for admission to a school of medical technology were increased from two years to three years. The student follows a prescribed three-year program here at Eastern and then transfers to an affiliated school of medical technology. After completion of the course in medical technology, the student is granted the B.S. degree from Eastern Illinois University.

FIRST YEAR	Qtr. Hrs.	SECOND YEAR	Qtr. Hrs.
English 120, 121	8	Foreign Language	12*
Speech 131	4	Chemistry 234	4
Health Education 120, Botany 120	8	Zoology 225 (Anatomy)	4
Zoology 120, 121	8	Psychology 231	4
Mathematics ¹	4 or 8*	General Requirements (Humanities and History)	20*
Chemistry 120, 121, 122 or 150, 151, 152	12	Physical Education	(3)
Physical Education	(3)		

THIRD YEAR	Qtr. Hrs.	FOURTH YEAR	Qtr. Hrs.
Botany 335 (Bacteriology)	4	Completion of Medical Tech-	
Foreign Language	12*	nology in affiliated	
Chemistry 343, 344	8	hospital program	48
Zoology 227 or 451	4		
General Requirements			
(Humanities and Social			
Studies) and electives	20*		

* Subject to exemptions as outlined in the General Requirements for the degree.

¹ Four hours of Mathematics required regardless of exemptions. Eight hours are required if student has no exemptions.

TWO YEAR GENERAL CURRICULUM

This curriculum offers a wide choice of electives but requires that they conform to a pattern which encourages both depth and breadth of education. The curriculum is recommended to students who have not yet decided upon a field of major interest and wish to explore several fields, to students who have definite plans for transferring to other colleges at the end of the first two years, and to students who wish to round out their education with two years of general college work.

The Junior College diploma is granted upon completion of the two-year general curriculum.

FIRST YEAR	SECOND YEAR
English 120, 121; Speech 131	History 233, 234, 235
Laboratory Science ¹ (Year)	Foreign Language ² (Year)
Elective ³ (24 q. hrs.)	Elective ⁴ (Year)
Physical Education	Elective ⁵ (Year)
	Physical Education

¹ May be one year of Botany, Chemistry, Physics, Zoology or General Physical Science.

² Must be selected so that the four subjects are in four different fields. Courses in Education may not be counted as electives.

³ If the student has had two acceptable units of foreign language in high school he may substitute an elective.

⁴ Must be the second year in some subject studied during the first year.

⁵ May be the second year in some subject studied during the first year.

PRE-ENGINEERING CURRICULUM

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 ¹	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 unless they take steps to avoid it. It is suggested that students avoid the delay by attending one or more summer quarters.

FIRST YEAR	SECOND YEAR
English 120, 121, Ind. Arts 131	Mathematics 345, 350, 351
Mathematics 134, 235, 236 ²	Physics 236, 239, 240
Physics 130, 131, 132	Humanities (12 q. hrs.) ³
Chemistry 150, 151, 152, or (120, 121, 122)	Social Science (12 q. hrs.) ³

¹ Students who do not have two years in the same foreign language in high school should add to these courses 12 quarter hours in a foreign language.

² See Note 1 under mathematics, preceding the description of the mathematics courses.

³ It is recommended that the humanities and social science requirements be met from lists which will be furnished by the adviser.

COURSES BASIC TO CHEMICAL ENGINEERING

FIRST YEAR

Chemistry 150, 151, 152¹
 English 120, 121
 Ind. Arts 131 or 231
 Math 134, 235, 236²
 Physics 130, 131, 132³
 Physical Education (year)

SECOND YEAR

Chemistry 343, 344, 345
 Math 345, 350, 351
 Physics 236, 239
 Speech 131 (or elective)⁴
 Foreign Language (one year French,
 German, or Russian)
 Physical Education (year)

¹ Chemistry 120, 121, 122 should not be substituted unless the student lacks the prerequisites for Chemistry 150, 151, 152.

² See Note 1 preceding the description of the Mathematics courses.

³ Students lacking two units in high school German, French, or Russian should enroll in one of these foreign languages and postpone Physics 130, 131, 132 to the second year.

⁴ Physics 130, 131, 132 should be substituted here if note 3 substitution above was followed in the first year.

Two years of French, German or Russian are required in the Chemical Engineering Curriculum at most universities.

COURSES PREPARATORY TO THE STUDY
OF CONSERVATION

A sub-professional curriculum which has been developed with the cooperation and advice of administrators and technicians of the Soil Conservation Service.

FIRST YEAR

English 120, 121, Speech 131
 Mathematics 130, 131
 Botany 120, 121, 222
 Chemistry 120, 121 or 150, 151;
 Geography 140 or 141, or 142
 Physical Education (Year)

SECOND YEAR

Physics 130, 131
 Geography 141, 142, 380, 387
 Industrial Arts 231, 232
 Botany 461
 History 234, 235, Elective
 Physical Education (Year)

COURSES PREPARATORY TO THE STUDY OF DENTISTRY

The courses in this curriculum will enable the student to become a candidate for admission to most schools of dentistry. It is strongly urged that students complete three years of pre-dental work at Eastern. All applicants will be required to take a dental aptitude test given by the American Dental Association.

FIRST YEAR

Qtr. Hrs.

Chemistry 120, 121, 122 or 150, 151, 152	12
English 120, 121	8
Speech 131	4
Mathematics 130, 131	8
Zoology 120, 121, 225	12
Electives	4
Physical Education	(3)

SECOND YEAR

Qtr. Hrs.

Chemistry 343, 344, 234	12
Physics 130, 131, 132	12
Physical Education	(3)
Electives	24

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

COURSES PREPARATORY TO THE STUDY OF GEOLOGY

The courses in this curriculum correspond closely to freshman and sophomore courses ordinarily required in curricula in Geology.

FIRST YEAR

English 120, 121, Speech 131
Chemistry 120, 121, 122 or 150,
151, 152
Mathematics 130, 131, 134
Geography 140, 141, 142
Physical Education (Year)
Library 120

SECOND YEAR

Physics 130, 131, 132
Mathematics 235, 236, 345
Geography 380, Industrial Arts
231, 232
Suggested Electives (4 q. hrs.)
Physical Education (Year)

COURSES BASIC TO STUDY OF JOURNALISM

The program suggested below is designed to provide a general background for prospective journalism majors. Students with definite plans for transfer should consult the requirements of the journalism school to which they intend transferring, and adjust their programs accordingly.

FIRST YEAR

English 120, 121, Speech 131
Laboratory Science (Year)
Elective¹ (Year)
Elective² (Year)
Physical Education (Year)

SECOND YEAR

English 260, 261, 250 or 270
Journalism 210, 211, 212
History 233, 234, 235
Elective³ (Year)
Physical Education (Year)

¹ Students who have not had foreign language in high school should elect a year of foreign language.

² History 146, 147, 148 are strongly recommended.

³ Following are recommended: Courses from Geography 150, 151, Music 229, Industrial Arts 259, 260, Economics 254, 255, 256, Political Science 100, 110, 111, 112, Sociology 271, 272.

COURSES PREPARATORY TO THE STUDY OF NURSING

For students interested in nursing who choose to attend Eastern for one or two years before going on to a hospital school, a program may be planned to include basic courses in chemistry, zoology, English, social studies, and humanities.

For students interested in completing their work in a program of nursing leading to the degree Bachelor in Nursing, it is suggested that they consult with the Director of the School of Nursing that they wish to attend. By following the program recommended by the Director, courses are selected to enable the student to complete at least one year at Eastern, and in some cases two years, before transferring to the School of Nursing without loss of time.

COURSES PREPARATORY TO THE STUDY OF OPTOMETRY

Most schools of optometry require two years of pre-professional work, and the following courses are suggested.

FIRST YEAR	Qtr. Hrs.	SECOND YEAR	Qtr. Hrs.
English 120, 121	8	Physics 130, 131, 132	12
Speech 131	4	Psychology 231	4
Chemistry 120, 121, 122 or 150, 151, 152	12	Electives (Social Studies, Humanities, History)	32
Zoology 120, 121, 225	12	Physical Education	(3)
Mathematics 130, 131, 134	12		
Physical Education	(3)		

PRE-PHARMACY COURSES

ONE YEAR	Qtr. Hrs.		
Chemistry 120, 121, 122 or 150, 151, 152	12	Electives to be selected in terms of the requirements of the College of Pharm- acy selected by the student	12
English 120, 121	8		
Speech 131	4		
Mathematics 130, 131, 134	12		

COURSES PREPARATORY TO THE STUDY
OF VETERINARY MEDICINE

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

FIRST YEAR	Qtr. Hrs.	SECOND YEAR	Qtr. Hrs.
Chemistry 120, 121, 122 or 150, 151, 152	12	Chemistry 343, 344, 234	12
English 120, 121	8	Physics 130, 131, 132	12
Speech 131	4	Foreign Language	12
Mathematics 130, 131	8	Physical Education	(3)
Botany 120	4	Electives	12
Zoology 120, 121	8		
Elective	4		
Physical Education	(3)		

The recommended electives should include no fewer than two of the following fields: history, anthropology, economics, geography, political science, psychology, or sociology.

COURSES BASIC TO GENERAL AND VOCATIONAL
AGRICULTURE, HORTICULTURE,
FLORICULTURE, AND FORESTRY

FIRST YEAR	Qtr. Hrs.	SECOND YEAR	Qtr. Hrs.
English 120, 121, Speech 131	12	Botany 225, 231, 232 or 335	12
Botany 120, 121, 222	12	Geography 140 or Elective	4
Chemistry 120, 121 or 150, 151	8	Zoology 120, 121	8
Health Education 120	4	Electives	24
Electives	12	Physical Education	(3)
Physical Education	(3)		

Note: If vocational agriculture is planned Education 230 and Psychology 231 should be added. Students who plan to study forestry should take Chemistry 122 or 152 and Mathematics 130, 131, 134 in the first year. The second year's program should be planned after consultation with the college of forestry the student plans to enter.

Recommended electives: Botany 230, 454, 459, 461, 456, Zoology 120, 121, 122, Geography 140, 141, 142, 151, 243, History 233, 234, 235, Economics 254, 255, 256, Industrial Arts 231, 232, 233.

IX. Extension Services

ORGANIZATION

An extension course will be given in any community where it can be arranged and where a sufficient number of persons can agree upon an acceptable course. The courses offered are usually on junior, senior, or graduate level, but freshman or sophomore courses may be offered if desired.

ENTRANCE

Undergraduate courses are open to high school graduates. They may be audited or taken for credit. Regular fees are required of auditors. Graduate courses are subject to the same entrance requirements as the same courses taught in residence.

CREDIT

Classes normally meet in weekly periods of one hundred fifty minutes for sixteen weeks. Credit is given in the course description (in most cases, four quarter hours) and is recorded for each student who satisfactorily completes the course for credit.

REGISTRATION PROCEDURES

Students in extension courses register and pay fees by mail, following instructions and using materials furnished by the instructor at the first and second meetings of the class.

FEES

The fees are \$24.00 for each 4 quarter hour course with an additional charge of \$2.00 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.

SCHOLARSHIPS

Teacher education scholarships may not be used on extension. Military scholarships may be used on extension.

For details regarding the extension schedule for the current year, the student is referred to the Extension Bulletin. Address all requests for bulletins and other inquiries concerning this work to the Director of Extension.

X. Graduate Study

MASTER OF SCIENCE IN EDUCATION DEGREE AIM

It is the purpose of this program of graduate study at Eastern Illinois University to offer experiences designed to advance the professional and personal competence and scholarship of teachers and other educational workers in public schools.

ADMISSION

Admission to take graduate courses is granted upon evidence of a standard baccalaureate degree from an accredited college or university. Admission to courses is not to be interpreted as admission to candidacy for the degree, M.S. in Ed.

An application, together with transcripts certifying the bachelor's degree and any subsequent work in other institutions, must be filed at least thirty days before the first registration for graduate courses. Application blanks may be secured from the Dean of the Graduate School.

A student who holds a baccalaureate degree is known as a graduate student only if he has applied for and has been accepted to take graduate courses. Otherwise he is known as a special student. (See page 90.)

ADVISER

Each student who wishes to become a candidate for this 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, and to arrange his examination. Other faculty members may be appointed to share any of these responsibilities.

RESIDENCE REQUIREMENT AND TRANSFER CREDIT

At least thirty-six quarter hours of credit toward the Master's degrees must be earned in residence courses at Eastern Illinois University; the remaining credit may be earned in extension and/or transfer courses. One quarter in the regular year or two summer sessions 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.

MAXIMUM LOAD

The maximum amount of credit toward the Master's degrees that may be earned in full-time residence in any quarter of the calendar year is sixteen quarter hours. The maximum that may be earned in an academic year by a teacher who is employed full-time is twelve quarter hours; simultaneous enrollment in two or more courses is not permitted.

ADMISSION TO CANDIDACY

Admission to candidacy for the degree, M.S. in Ed., is subject to the following additional conditions:

1. If the bachelor's degree was earned at another institution, the applicant must submit evidence that he has had substantial equivalents of the courses in education and student teaching required for the degree, B.S. in Ed., in Eastern Illinois University. Usually, one who holds a regular teacher's certificate valid in Illinois can meet this requirement. Deficiencies must be made up through additional undergraduate courses.

2. The Graduate Record Examination must be taken before an application for admission to candidacy for a graduate degree will be considered. The Examination may be scheduled through the University Testing Services.

3. The student must petition for admission to candidacy. The petition must be sponsored by the student's adviser. It must contain a proposed program of courses totaling at least 48 quarter hours selected in accordance with the Plan of Studies.

4. Admission to candidacy will result from:

- a. Approval of the petition, or acceptance by the student of a modified program prescribed by the Council on Graduate Studies together with:
- b. The completion of 12 quarter hours of courses at Eastern Illinois University of the approved program, with grades that average 3.0, and with grades in all graduate courses taken, including those which may not have been included in the program, averaging at least 2.5. (The requirement of the completion of 12 quarter hours is waived for students possessing a 3.0 or better undergraduate grade point average.)

The Council on Graduate Studies in its consideration of the petition has the authority:

To approve, or to reject, the petition.

To prescribe additional courses for students whose undergraduate records show standing in the lowest third of the class or, in the case rank cannot be determined, grades averaging below 2.5.

To demand supporting evidence of the possession of desirable personal qualities of a teacher.

Failure to secure admission to candidacy prior to beginning the final 24 quarter hours of a proposed program for the master's degree is considered equivalent to rejection of candidacy.

PROGRAM OF STUDIES

The courses for the degree, Master of Science in Education, must total at least 48 quarter hours, chosen in accordance with a plan intended to be consistent with the statement of the purpose of graduate study at Eastern Illinois University. At least 36 quarter hours of work included in the student's program must be in courses numbered 500 or above.

It is assumed that the personal and professional competence sought by the candidate has at least three contributing factors: basic educational theory, specialized professional knowledge and experiences, and continued cultural and intellectual development independent of the field of concentration; the plan, therefore, requires that the student's courses be identified with three groups defined as follows:

GROUP I (12 quarter hours)

Basic Courses In Education

It is the purpose of the courses of this group to present aspects of fundamental educational theory. Three courses must be chosen from the following:

Education 550. Principles of Curriculum Development

Education 551. Social Foundations of Education

Education 552. Understanding the Individual

Education 553. Philosophy of Education

Education 554. History of Educational Thought

It is recommended that no more than one of these courses be taken in any quarter or summer term.

A student may petition for a proficiency examination in any of these courses; successful completion of the examination permits the substitution of elective courses of equivalent credit in the program of studies.

GROUP II (24 or 28 quarter hours)

Area Of Concentration

The courses of this group are intended to comprise 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.

GROUP III (12 or 8 quarter hours)

The courses of this group are intended to implement the assumption that continued cultural and intellectual development independent of the field of concentration may contribute significantly to professional and personal competence. It is intended that these courses shall provide new intellectual experiences, consequently, they should be chosen in fields that are new to the student. The courses acceptable in Group III are planned specifically for the purpose stated above. It is intended that they assume intellectual maturity but little or not previous introduction to the field of study.

The following courses are currently acceptable in Group III: Anthropology 550; Art 550; Botany 550, 551, 552; Business 550; Classics 550, 551 (Literature in Translation); Economics 550; English 550, 551; Geography 550, 551, 552; History 550; Industrial Arts 550; Mathematics 550; Music 550, 551; Philosophy 550; Physical Education 550; Political Science 550; Zoology 550, 551.

THE PAPER

Every candidate who is granted the degree, Master of Science in Education, must present evidence of his ability to conduct an independent study and to report his findings in writing of a quality appropriate to the master's degree level of maturity. The report must be in a style and form acceptable in formal writing. It is recommended that the subject of the paper grow out of an aspect of Group II of the candidate's program of studies. The candidate may elect one of two plans for satisfying this requirement.

Plan A. Candidates electing to complete requirements under this plan may register, and receive four quarter hours of credit toward graduation with the credit included as a part of Group II. The student's adviser may act as adviser for the paper, or another faculty member may, with the consent of the Graduate Dean, be designated to take this responsibility. It is recommended that the paper be read by at least two faculty members other than the adviser before it is given final approval. Candidates who contemplate graduate study beyond the master's degree are urged to elect Plan A.

It is required that the original and first carbon copy of the paper submitted under Plan A, appropriately bound, be deposited in the University Library. An abstract of the Plan A paper is also required.

Plan B. Candidates electing to complete requirements under this plan may submit a term paper from a course in Group II in fulfillment of the requirement. To be acceptable for this purpose, the paper must be so certified by the candidate's adviser and the instructor of the course in which the paper is submitted.

It is required that the original copy of the paper submitted under Plan B, appropriately bound, be deposited in the office of the Dean of the Graduate School.

THE EXAMINATION

An examination is required of all candidates for the degree, Master of Science in Education, during the final term of work. The purposes of the examination are to test the achievement of the student with respect to the purpose of his program of studies and to promote the integration of his studies.

The examination is given by a committee appointed by the adviser. It may be written, or oral, or both written and oral. The passing of the examination must be certified by the adviser at least two weeks before graduation.

MASTER OF ARTS DEGREE

AIM

It is the purpose of this program to provide intensive study designed to develop advanced scholarship in a particular discipline.

FIELDS

Three departments have been authorized to offer the Master of Arts degree—History, Mathematics, and Music.

ADMISSION

The requirements for admission to take graduate courses under the M.A. program are the same as those required for the M.S. in Ed. degree. See p. 151.

ADVISER

The major department shall have the authority to determine the manner of advising its candidates for the M.A. degree.

RESIDENCE REQUIREMENT AND TRANSFER CREDIT

At least thirty-six quarter hours of credit toward the Master's degrees must be earned in residence courses at Eastern Illinois University; the remaining credit may be earned in extension and/or transfer courses. One quarter in the regular year or two summer sessions 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.

MAXIMUM LOAD

The maximum amount of credit toward the Master's degrees that may be earned in full-time residence in any quarter of the calendar year is sixteen quarter hours. The maximum that may be earned in an academic year by a teacher who is employed full-time is twelve quarter hours; simultaneous enrollment in two or more courses is not permitted.

ADMISSION TO CANDIDACY

While responsibility for admission to candidacy for the Master of Arts rests with the department offering the degree, the University has established certain basic requirements that must be met. These are:

1. Adequate undergraduate preparation in the major field; deficiencies, as determined by the major department, must be made up without credit toward the M.A. degree.
2. The Graduate Record Examination must be taken before an application for admission to candidacy for a graduate degree will be considered. The Examination may be scheduled through the University Testing Services.
3. The student must petition for admission to candidacy and the proposed program of courses must total at least forty-eight quarter hours. Petition forms may be obtained from the Dean of the Graduate School.
4. 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 application for admission must average 3.0 (B).
5. The candidate must not have completed more than 24 quarter hours of his program at the time of filing an application for admission to candidacy.
6. At least thirty-six quarter hours of the proposed program must be in courses numbered 500 and above.
7. When a candidate's program is approved by his department, a copy is placed on file in the Graduate School office. Once on file, the major department is expected to approve changes in the program only for very good reasons. The Graduate School must be notified if any such changes in the program are made.

The department requirements for admission to candidacy may be obtained by communicating with the head of that department.

PROGRAM OF STUDIES

The Master of Arts degree is highly specialized and therefore the candidate is expected to pursue work in a single discipline or major in a field and minor in another closely related one.

Major and Minor—A student's program of courses may be taken entirely in a single field. Or the student may choose a major of 32 to 36 quarter hours and a related minor of 12 to 16 quarter hours. The major and minor must be in single disciplines, not in "areas;" for example, history would be an acceptable major but "social science" would not. A major can be given only by a department which has received approval. A minor may be taken by a student in a discipline in which a major has not been developed. The major or major and minor program selected must total at least 48 quarter hours.

Thesis—Four quarter hours or more of the major shall be reserved for a thesis. An exception to this requirement is made in departments where independent research would be required but the formality of a thesis would be impractical.

Comprehensive Examinations. Each degree candidate must stand a comprehensive oral or written examination or both. This is given by his department and covers his major field. The purpose of the examination is to test rigorously his scholarly attainments in his discipline. The department must remand a student to further work if he fails to perform satisfactorily in this examination.

Grade Requirements. The standards for grades are the same for all graduate programs. See "Graduation Requirements" for a detailed explanation.

Foreign Language. The various departments offering these degrees have the option of requiring a foreign language.

REQUIREMENTS FOR GRADUATION

The master's degree is conferred upon:

1. The completion of the approved program of studies of 48 quarter hours with grades that average B (3.0 or higher) and with not more than eight quarter hours of courses with grades below B.
2. Certification by the adviser not later than the middle of the last term of residence that an acceptable paper or research project has been completed and approved. For further information concerning the paper, consult the *Graduate Bulletin*.
3. Satisfactory performance in a comprehensive examination.
4. Passing an examination on the Declaration of Independence, the proper use and display of the flag, the Constitution of the United States, and the Constitution of Illinois. This requirement may be waived if the candidate passed the examination as a requirement for an undergraduate degree at one of the state universities of Illinois. The examination must have been passed within ten years of applying for the graduate degree.

5. Meeting the following incidental requirements:

- a. The graduation fee of \$15.00 must be paid before April 1 by candidates for graduation at the Spring Commencement or before July 1 by candidates for graduation at the Summer Commencement.
- b. A photograph, size not larger than 1½ by 2½ inches, is required of each candidate for graduation for the files of the Records Office.
- c. The candidate must register with the Teacher Placement Bureau, or revise previous registration.

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.

Application for Graduation. Degrees are conferred at two commencements each year, Spring Commencement at the close of the spring quarter, and Summer Commencement at the close of the summer session.

A student who expects to complete his requirements must apply for graduation prior to April 1 for Spring Commencement, or July 1 for Summer Commencement. An application is filed at the Records Office and the graduation fee paid at the Business Office.

CERTIFICATE OF ADVANCED STUDY

AIM

It is the purpose of this program to provide more advanced and intensive graduate study for persons preparing to teach in the first two years of college or public school personnel specializing in such fields as administration and guidance.

FIELDS

Eastern has been authorized to offer the Certificate of Advanced Study (CAS) in educational administration.

ADMISSION

Admission to the CAS program and admission to candidacy for the CAS can come simultaneously with completion of the first 48 quarter hours of the program. The application process is explained on page 150.

RESIDENCE REQUIREMENT

At least forty-eight quarter hours of credit toward the Certificate of Advanced Study must be earned in residence courses at Eastern Illinois University.

ADMISSION TO CANDIDACY

Admission to candidacy for the Certificate of Advanced Study should come ordinarily at the completion of 48 quarter hours of the program. Admission to candidacy must come at or before the completion of 64 quarter hours and is subject to the following additional conditions:

1. The student must complete the requirements ordinarily fulfilled by earning the master's degree. Formal receiving of the master's degree is left up to the discretion of the student.
2. The student must petition for admission to candidacy. The petition must be sponsored by the student's adviser and must contain a proposed program of studies totaling at least 96 quarter hours selected in accordance with the Program of Studies for the Certificate of Advanced Study.
3. Admission to candidacy will result from:
 - a. Approval by the Council on Graduate Studies and the major department of the student's program of studies.
 - b. Passing a comprehensive examination, either written or oral or both.
 - c. An evaluation of the student's record to date. If a master's degree was taken independently of the CAS program, the courses taken for the degree will be evaluated and there is no assurance that all credit hours will automatically count toward the Certificate of Advanced Study.
 - d. Approval by the major department's screening committee. By means of interviews, the department offering the CAS must approve the candidate.

PROGRAM OF STUDIES

The courses proposed in the student's program for the Certificate of Advanced Study must total 96 quarter hours. Ordinarily, in the first 48 hours the student will complete the requirements for a master's degree although it is not required that the master's be completed within the first half of the total program.

The final 48 quarter hours of the CAS are specifically planned to satisfy certification and accreditation requirements and are divided into two parts—the major fields and supporting academic minors.

SECTION I (48 quarter hours)

Earning the master's degree with a major in the field in which the student plans to continue work toward the Certificate of Advanced Study will satisfy this requirement. For details on the program of studies for the master's degree see pages 151-154 of this catalogue.

SECTION II (48 quarter hours)

Part 1. *The Major Field* (28 quarter hours). The major department has developed a program of courses not only to meet certification requirements but to develop further the student's professional competence. This program can be secured by writing or visiting the department.

Part 2. *The Academic Minor* (20 quarter hours). An academic minor of 20 quarter hours must be selected. It is recommended these courses be taken in fields that will bring greater understanding and support for the major. Recommended are certain courses in the social sciences, business, history, and psychology. For more specific lists of eligible courses, consult with the department offering the major.

Part 3. *A Comprehensive Examination*. A comprehensive examination is given by a committee appointed by the adviser. It may be written, or oral, or both written and oral. The passing of this examination must be certified by the adviser at least two weeks before completion of the requirements for the Certificate.

MISCELLANEOUS INFORMATION

Grades. The approved program must be completed with grades that average B (3.0) or higher and with not more than eight quarter hours of courses with grades below B.

Graduation Requirements. The regulations concerning graduation are virtually the same for the Certificate of Advanced Study as they are for the master's degrees. For details see page 156 in this catalogue.

Graduation with Distinction. Graduation honors will be conferred upon those Certificate of Advanced Study candidates whose records warrant recognition for distinction. Such honors will also be entered on the graduate's diploma.

XI. Description of Courses

NUMBERING OF COURSES

Courses numbered 100-199 are freshman courses; 200-299, sophomore courses; 300-399, junior courses; 400-499, senior courses. Courses numbered 300-499 are not open to freshmen or sophomores except that courses numbered 300-499 in mathematics, foreign languages, and chemistry may be taken by underclassmen who have completed the prerequisite courses and have obtained the permission of the department.

Courses numbered 100-199 may not be taken for full credit by seniors except for courses in foreign languages. Courses numbered 500-549 are graduate courses open with special permission to seniors.

Courses numbered 550-599 are open only to graduate students and, therefore, may not be used for credit toward a bachelor's degree. Certain courses numbered between 450 and 499 may be taken for credit toward the Master's degree.

ACCOUNTING

(See Business 230, 231, 232, 354, 355, 356, 460, 461, 462, 463, 464, 466.)

ANTHROPOLOGY

Undergraduate Courses

273. Introduction to Anthropology. Every quarter. (4 q. hrs.)

A study of the races of the world, pre-literate culture, kinship systems, major institutions and social structure. Students are advised to take this course prior to enrolling in courses in sociology.

360. Peoples and Cultures of South America. (4 q. hrs.) Winter.

The pre-Colombian background; contemporary races, culture and social organization of selected Latin American societies. The emergence of Latin America as a distinct culture area in the modern world.

Prerequisite: Anthropology 273.

Graduate Courses

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

552. Cultural Anthropology. Summer (4 q. hrs.)

An introduction to the scientific study of man and his culture. Cross cultural comparison of the major social institutions.

May be offered toward the Group III requirement for the degree M.S. in Ed.

ART

NOTE: Studio courses meet for three double periods and one single period which is used for planning, discussions, and reports. Additional discussions may be incorporated into the studio hours.

Certain courses require the purchase of materials by the student. In such cases, completed projects become the property of the student. The Department of Art reserves the right to retain for exhibition purposes any student work produced in art classes for a period of one academic year after the year in which the work was produced.

Undergraduate Courses**100. Drawing I.** Every quarter. (4 q. hrs.)

Freehand drawing in various media; studies from nature designed to develop an interpretative approach.

101. Drawing II. Winter and Spring. (4 q. hrs.)

Drawing from life; a development of individual expression and a continuing study of drawing techniques.

Prerequisite: Art 100. For Art majors and minors only.

110. Design I. Every quarter. (4 q. hrs.)

Introduction to basic aspects of design problems dealing with color, texture, line, form, and organization.

111. Design II. Every quarter. (4 q. hrs.)

Development of three-dimensional organization of forms using various media.

140. Introduction To Art. Every quarter. (4 q. hrs.)

Study of the functions of art in our environment. Studio problems provide creative experiences in designing with a variety of two and three-dimensional media.

Prerequisite: Enrollment in the curriculum for elementary and junior high school teachers.

160. Introduction to Visual Arts. Winter and Spring. (4 q. hrs.)

Nature of art as revealed in works of painting, sculpture architecture, and minor forms of art of men of the past and present.

For art majors and minors only.

205. Painting I. Every quarter. (4 q. hrs.)

Introduction to painting as a medium of expression; variety of approaches and media explored.

Prerequisite: Art 100 or Art 101.

225. Ceramics I. Every quarter. (4 q. hrs.)

Introduction to various hand-building techniques; decorative methods; firing process; use of potter's wheel.

Prerequisite: Art 110 or 111 or 140, or permission of instructor.

242. Art Materials For The Elementary School.

Summer. (4 q. hrs.)

Materials and processes important in art programs of elementary schools as applied to various levels of creative development of children; studio problems dealing with appropriate materials.

Art 242 may not be substituted for Art 244 in the curriculum for elementary and junior high school teachers.

244. Art For Teachers In The Elementary Grades.

Every quarter. (4 q. hrs.)

Developmental stages of children's artistic activity; motivation, classroom management, and appropriate use of art media for each stage stressed. Studio experiences with wide variety of art media.

Prerequisite: Art 140.

245. Theory and Practice Of Art In The Elementary School.

Winter. (4 q. hrs.)

Theories of child art such as those of Lowenfeld, McFee, Goodenough, and Arnheim; developments in children's expressions; evaluating children's progress in art.

Prerequisite: Art 244.

247. Theory And Practice Of Art In The Junior High School.

(Omitted 1965-66). (4 q. hrs.)

Basic psychological and physical needs of young adolescents; visual-haptic tendencies; evaluation of student growth; development of sensitivity to aesthetic relationships.

Prerequisite: Art 244.

260. History Of Art I. Fall (4 q. hrs.)

Development of visual arts from pre-historic times to the medieval period; their use by man in his natural and social environment; the architecture, sculpture, painting, weaving, pottery, and other crafts of Egypt, Mesopotamia, Crete, Greece, and Rome.

For art majors and minors only.

261. History Of Art II. Winter. (4 q. hrs.)

Art of the medieval period; the Renaissance through the seventeenth century; architecture of the Romanesque and Gothic periods; painting of the Renaissance; brief survey of the art of the Far East.

For art majors and minors only.

262. History Of Art III. Spring. (4 q. hrs.)

Development of the visual arts since the beginning of the eighteenth century; relation of art to contemporary living.

For art majors and minors only.

270. Introduction To Jewelry And Enameling I.

Every quarter. (4 q. hrs.)

Decorative and constructive processes in the use of silver or other metals; enameling on copper.

Prerequisite: Art 110 or 111 or 140, or permission of instructor.

280. Introduction To Weaving And Textile Design.

Every quarter. (4 q. hrs.)

Creative stitchery, block printing, and weaving. Study of the loom, its functions, and possibilities for creative weaving.

Prerequisite: Art 110 or 140.

290. Lettering. Fall. (4 q. hrs.)

Design and formation of basic styles of letters—Roman, Modern, and Text; development of skills of lettering with pen and brush.

300, 301, 302. Drawing III, IV, V. Fall and Winter.

(4 q. hrs. for each course.)

Advanced drawing designed to develop individual sensitivity to form in two dimensions; development of an expressive and personal interpretation of dark and light shapes on a flat surface.

Prerequisite: Art 100, 101.

- 305, 306, 307. Painting II, III, IV.** Every quarter.
(4 q. hrs. for each course.)

Study of types of painting; craftsmanship and expression in several media stressed through progressive stages of the three courses.

Prerequisite: Art 205.

- 309. Survey of Two-Dimensional Art.** Spring. (4 q. hrs.)

Studio experiences in fine, medium, and broad line media to provide the prospective teacher with basic knowledge of aesthetic expression through experiences in two dimensional media.

Prerequisite: Art 140.

- 310, 311, 312. Sculpture I, II, III.** Every quarter.
(4 q. hrs. for each course.)

Additional work in three-dimensional organization of form; individual concentration toward competent expression in modeling, carving, and constructing.

Prerequisite: Art 111 or Art 225.

- 319. Survey of Three-Dimensional Art.** Fall and Winter. (4 q. hrs.)

A study of three-dimensionality in art. Studio experiences include work in ceramics, sculpture, jewelry and crafts. Materials, skills and techniques necessary to create three-dimensional art forms.

Prerequisite: Art 140.

- 325. Ceramics II.** Fall. (4 q. hrs.)

Projects in hand building and throwing; study of ceramic bodies such as stoneware, porcelain, white wares.

Prerequisite: Art 225.

- 326. Ceramics III.** Winter. (4 q. hrs.)

Projects in hand building, throwing, and ceramic sculpture; study of glaze materials and glaze calculations.

Prerequisite: Art 225.

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

Projects in hand building, throwing, and ceramic sculpture; study of color in stoneware glazes.

Prerequisite: Art 225.

- 334. General Crafts.** Winter and Spring. (4 q. hrs.)

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

Not open to students whose major or minor 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.

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.

343. Art Education For Secondary Schools. (Omitted 1965-66.) (4 q. hrs.)

Concerted study of use of certain materials, processes, and projects in the secondary school program; fostering art and art appreciation in the high school.

Prerequisite: Art 340.

356. Print Making I. Fall. (4 q. hrs.)

Survey and laboratory exploration of four methods of print-making: relief, intaglio, planography, and stencil.

Prerequisite: Art 100 and 101.

357. Print Making II. Winter. (4 q. hrs.)

Intensive exploration of intaglio and serigraphy as two methods of print making; major emphasis on the intaglio method.

Prerequisite: Art 356.

358. Print Making III. Spring. (4 q. hrs.)

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

Prerequisite: Art 356.

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

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

Not open to students whose major or minor is in art.

361. Art in Past Culture. Winter. (4 q. hrs.)

Comparative study for the general education student of the art in past cultures as presented from the standpoint of subject matter in art.

Prerequisite: Art 360. Not open to students whose major or minor is in art.

362. Art Today. Spring. (4 q. hrs.)

Significance of art in present day living; derivation of contemporary art forms, processes, and techniques of expression.

Prerequisite: Art 360. Not open to students whose major or minor is in art.

363. Classical Art. Summer. (4 q. hrs.)

Greek and Roman art, including architecture, painting, sculpture and the minor arts; study of major figures and dominant stylistic tendencies.

Prerequisite: Art 260, 261, 262 or 360, 361, 362 or permission of instructor.

364. Medieval Art. Fall. (4 q. hrs.)

Arts of the Middle Ages in respect to the Early Christian, Byzantine, Romanesque, and Gothic, emphasizing in particular the transition from pagan art forms to Christian art forms.

Prerequisite: Art 260, 261, 262 or Art 360, 361, 362 or permission of instructor.

365. Art of the Italian Renaissance. (Omitted 1965-66.) (4 q. hrs.)

Evolution and development of art forms in Italy during the fifteenth and sixteenth centuries; emphasis on the painting, sculpture and architecture of Florence, Rome, and Venice.

Prerequisite: Art 260, 261, 262 or Art 360, 361, 362 or permission of instructor.

368. Twentieth Century Painting and Sculpture, 1905-c.1940. (Omitted 1965-66.) (4 q. hrs.)

Major developments, personalities, and significant achievements in painting and sculpture of the twentieth century with emphasis on Picasso, Matisse, Klee, Brancusi, Calder, and Moore.

Prerequisite: One course in Art 260, 261, 262, 360, 361, 362 and permission of instructor.

370, 371, 732. Jewelry and Silversmithing II, III, IV.

Winter and Spring. (4 q. hrs. for each course.)

Advanced problems in jewelry construction developing previously learned techniques in metal construction or enameling or both; introduction to basic silversmithing processes.

Prerequisite: Art 270.

380. Weaving II. Spring. (4 q. hrs.)

Experimentation and practice in design and production on various looms; principles of textile construction; materials of the weaver.

Prerequisite: Art 280 or permission of instructor.

381. Weaving III. Spring. (4 q. hrs.)

Advanced problems in weaving design and production.

Prerequisite: Art 380.

382. Textile Design. (Omitted 1965-66.) (4 q. hrs.)

Pattern design principles as they apply to historical and contemporary textiles; use of block printing, silk screen, and batik techniques as production methods.

Prerequisite: Art 110 or 140 or 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 and permission of the instructor.

425, 426, 427. Ceramics V, VI, VII. Winter and Spring.

(4 q. hrs. for each course.)

Development of techniques and processes to a level of professional attainment; emphasis upon growth in the area in which the student is most interested.

Prerequisite: Art 325, 326, 327 and permission of the instructor.

Courses open to Juniors, Seniors, and Graduate Students**461. Psychology of Art.** (Omitted 1965-66.) (4 q. hrs.)

Psychological basis for art expression; analysis of art ability in terms of aptitudes, skills, and creative capacities.

Prerequisite: Three courses in art or permission of instructor.

462. Art in America. Spring. (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: Art 260, 261, and 262 or Art 360, 361 and 362.

463. Contemporary Architecture. Summer. (4 q. hrs.)

Architecture of the twentieth century; its roots in the past, its forms, its materials, its masters, and its social impact.

Prerequisite: Art 260, 261, and 262 or Art 360, 361 and 362.

465. The Visual Arts in the Elementary and Junior High School. (Omitted 1965-66.) (4 q. hrs.)

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

Prerequisite: Art 244.

467, 468, 469. Seminar in Art History and Criticism I, II, III. Summer. (4 q. hrs. for each course.)

Seminar studies in painting, sculpture and architecture.

Prerequisite: Permission of the instructor.

Graduate Courses

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

510. Materials for Designing I. Fall and Spring. (4 q. hrs.)

Experimentation with various materials, limitations, possibilities, adapted to teaching situations. Problems varied to meet individual needs.

520. Painting Problems I. Fall. (4 q. hrs.)

Techniques and media used by painters in development of different styles of painting, with opportunity for experience in working in each according to individual choice.

550. Contemporary Trends in Visual Arts. Spring. (4 q. hrs.)

Role and evaluation of visual arts in contemporary living.

May be offered toward the Group III requirement for the degree M.S. in Ed.

560. Materials for Designing II. Winter. (4 q. hrs.)

Advanced study of organization of form employing a variety of materials.

570. Painting Problems II. Winter. (4 q. hrs.)

Independent study in painting.

591. Problems in Art Education. Winter. (4 q. hrs.)

Statement, analysis and evaluation of current problems in the teaching of art in the public schools.

595. Thesis. (4 q. hrs.)

BIOLOGY

(Taught in the Division of Life Sciences)

Undergraduate Courses

116. Life Science. Every quarter. (4 q. hrs.)

A survey of the principal structures and processes including genetics and embryology of plant and animals.

No prerequisites. This course is restricted to students in the elementary education and junior high school curricula.

117. Life Science. Winter and Spring. (4 q. hrs.)

A survey of the identification, natural history, distribution and economic importance of the principal animal and plant groups.

Prerequisite: Biology 116 or equivalent. This course is restricted to students in the elementary education and junior high school curricula.

126, 127, 128. General Biological Science. Fall, Winter, Spring, and Summer. (4 q. hrs. for each course.)

A survey course covering the fundamental structures and processes of plants and animals; genetics, embryology, local flora and fauna are included.

Students who have credit for Biology 126 may not have credit for Botany 120 or Zoology 120.

BOTANY

Undergraduate Courses

Botany 120, 121, 222 are designed to meet the laboratory science general requirement and to be basic to further work in botany.

120. General Botany. Every quarter. (4 q. hrs.)

A study of the fundamental processes affecting plants; leaf, stem and root tissues; food manufacture and world food supplies; growth, energy releases, water deficits, and minerals affecting plant development and distribution.

121. General Botany. Winter and Spring. (4 q. hrs.)

A study of representative members of the Plant Kingdom; their development, environmental requirements and economic importance. Included is an understanding of inheritance by mitosis in vegetative reproduction and meiosis in plant life stories.

Prerequisite: Botany 120.

218. Vegetation of Illinois. Spring and Summer. (4 q. hrs.)

Use of local manuals and keys to identify common plants. A study of ecological relationships by means of field trips, reference readings, and Kodachrome slides; preparation of demonstration material and herbarium specimens for elementary and junior high teachers.

Prerequisite: Life Science 116, 117 or equivalent. Not open to students who have had Botany 120 and 121.

222 (122). General Local Flora. Spring and Summer. (4 q. hrs.)

Plant distribution of North America; identification of trees, shrubs and herbs and the lesser plants by appropriate keys; knowing and appreciating common plants.

Prerequisite: Botany 120, 121, or permission of the instructor.

225. Plant Physiology. Spring (4 q. hrs.)

Physical processes relating to plant growth and development; water relations; soils and soil formation; mineral nutrition.

Prerequisite: Botany 120, 121, and 222. A year of chemistry is recommended.

230. Morphology of Green Plants. Fall and Spring. (4 q. hrs.)

A comparative study of the vegetative structure and life histories of the green plants—algae, liverworts, mosses, ferns and fern allies, conifers, and flowering plants; much living plant material is made available for class study.

Prerequisite: Botany 120, 121, and 222.

231. Morphology of Fungi. Winter. (4 q. hrs.)

The structure, life histories and classification of fungi and their economic and ecological importance.

Prerequisite: Botany 120, 121, and 222.

232. Economic Botany. Spring. (4 q. hrs.)

Plant propagation and environmental requirements of the greenhouse and field; plant products and their origins in world commerce and their use in manufacture. Field trips are taken to observe some of these activities.

Prerequisite: Botany 121 or 218.

234. Food and Sanitary Microbiology. Fall and Winter. (4 q. hrs.)

A course in microbiology for the Home Economics, Health Education, Elementary and Junior High curricula with emphasis on the identification and culture of bacteria, yeasts, molds, etc., and their relation to food preservation and sanitation.

Prerequisite: Sophomore college standing, and 3 quarters of laboratory sciences. Not to count toward a botany major or minor.

335 (235). Bacteriology. Every quarter. (4 q. hrs.)

A study of the occurrence, distribution, and culture of bacteria and other micro-organisms with emphasis on morphology and physiology.

Prerequisite: Botany 120 and Junior standing. Botany 121, 230, 231 and a year of chemistry are recommended.

340. Methods of Teaching Biological Science in the High School.

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

The collection and use of materials for demonstration and laboratory experiments are stressed.

Prerequisite: Admission to teacher education and junior standing.

345. Problems in Botany. Any quarter. (4 q. hrs.)

The student must submit an outline of his plan of work to the Department Head for approval and assignment to an instructor.

Prerequisite: Botany major or minor with junior standing.

350. Genetics. Winter. (4 q. hrs.)

Problems of heredity in living organisms; Mendelian inheritance, hybrid segregation, fluctuations and mutations and the genetic background necessary to explain inheritance.

Prerequisite: Five quarters of biological science.

Courses open to Juniors, Seniors, and Graduate Students**453 (343). Plant Microtechnique.** Winter. (4 q. hrs.)

The techniques of preparing permanent microscopic slides of plant material and an understanding of the part played by staining in producing superior teaching and research material.

Prerequisite: Two years of Botany or its equivalent. A year of chemistry is desirable.

454 (344). Experimental Plant Physiology. Fall. (4 q. hrs.)

A qualitative and quantitative study by experiments and demonstrations of the biochemical processes that result in the growth and development of plants and the application of this knowledge in solving plant growth problems.

Prerequisite: Botany 120, 121, 222 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. (4 q. hrs.)

A detailed study of the Compositae, grasses and grass-like plants of Illinois and current trends in plant classification and plant analysis. Field trips are made for the observation and collection of plants from various habitats.

Prerequisite: Botany 120, 121, and 222.

461 (351). Plant Ecology. Spring. (4 q. hrs.)

A study of the major plant formations of North America with emphasis on the factors which influence the development of local communities. Weekend and local field trips are part of the course.

Prerequisite: Botany 120, 121, and 222 and two advanced courses in Botany or related fields. Botany 454 and 459 are recommended.

Graduate Courses

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

545, 546, 547, 548. Advanced Botany. Any quarter.

(4 q. hrs. for each course.)

Advanced work in some special field of botany. The student chooses the area in which he wishes to study, subject to the approval of his adviser.

Prerequisite: At least a minor in botany here or its equivalent elsewhere, and the instructor's permission.

550. The Science of Plant Life. Summer 1967. (4 q. hrs.)

Fundamentals of plant science as experienced in everyday living and the common problems of the agriculturist and the home gardener.

May be offered toward the Group III requirements for the degree M.S. in Ed. Not open to students who have had undergraduate courses in Botany.

551. Systematic Botany and Local Flora. Summer 1965. (4 q. hrs.)

Identification of the trees, shrubs, herbs and lesser plants in this area; recognition of the common families of seed plants; appreciation of the plants outdoors and their geographical distribution.

May be offered toward the Group III requirements for the degree M.S. in Ed. Not open to students who have had undergraduate courses in Botany.

552. Microbiology for Everyday Living. Summer 1966. (4 q. hrs.)

A lecture-laboratory demonstration course with field trips to illustrate the application and control of bacteria, fungi, algae and other microorganisms concerned with various aspects of public health as related to food preservation, water purification, sewage disposal, etc.

Not open to students who have credit for Botany 234 or 335. May be offered toward the Group III requirements for the degree M.S. in Ed.

595. Thesis. (4 q. hrs.) Any quarter.

Study and investigation in botany for students electing Plan A paper for the M.S. in Ed. degree.

BUSINESS**Undergraduate Courses****110. Typewriting.** Fall and Winter. (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.

Not open to students who have had the equivalent of one semester of typewriting instruction.

111. Typewriting, Continued. Every quarter. (4 q. hrs.)

Development of skill in machine operation and typing of personal letters, business letters, simple manuscripts and tabulations. Minimum speed requirement: thirty words a minute for five minutes with not more than ten errors.

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

112. Typewriting, Continued. Every quarter. (4 q. hrs.)

Business communications problems: typewritten letters, reports, manuscripts, tabulations. Minimum speed requirement: forty words a minute for five minutes with not more than five errors.

Prerequisite: Business 111 or the equivalent. Not open to students who have had the equivalent of three semesters of typewriting instruction.

123. Shorthand. Fall and Winter. (4 q. hrs.)

Beginning instruction in Gregg Shorthand, Diamond Jubilee Series. Principles, brief forms, and phrasing.

Not open to students who have had the equivalent of one semester of shorthand instruction.

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

Review of the principles of the system, brief forms, and phrasing. Dictation from familiar material of the Gregg Shorthand, Diamond Jubilee Series.

Prerequisite: Business 123 or the equivalent. Not open to students who have had the equivalent of two semesters of shorthand instruction.

125. Shorthand, Continued. Fall and Spring. (4 q. hrs.)

Vocabulary building. Introduction to transcription. Dictation from new material prepares the student for taking dictation in the business office.

Prerequisite: Business 124 or the equivalent. Not open to students who have had the equivalent of three semesters of shorthand instruction.

140. Business Mathematics. Fall and Spring. (4 q. hrs.)

Everyday business calculations—fractions, percentage, trade and cash discount, marked price, banker's accurate and compound interests, bank discount, installment buying.

141. Business Correspondence. Every quarter. (4 q. hrs.)

The construction of effective letters: application letters, sales letters, credit letters, collection letters, adjustment letters, form letters, and business reports. Practice in writing these letters.

Prerequisite: Business 110 or equivalent.

142. Introduction to Business. Every quarter. (4 q. hrs.)

The American business scene; business and society; the nature of business: production, distribution, finance; the business manager as a directing force, his obligations and objectives; career opportunities in business.

210. Advanced Typewriting. Every quarter. (4 q. hrs.)

Remedial and advanced training in speed and accuracy. Study of advanced office projects. Minimum speed requirement: fifty net words a minute for five minutes with three errors or less.

Prerequisite: Business 112 or the equivalent.

211. Advanced Typewriting, Continued. Winter and Spring. (4 q. hrs.)

Speed and accuracy in the production of materials that meet rigid business requirements. Minimum speed requirement: sixty net words a minute for five minutes with three errors or less.

Prerequisite: Business 210 or the equivalent.

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

Familiarization with the function, use, and operation of adding and calculating machines, voice-writing equipment, duplicating devices, copying machines, and filing systems.

Prerequisite: Business 111 or permission of the instructor.

223. Advanced Shorthand. Fall and Winter. (4 q. hrs.)

Transcription of business letters from dictated notes. Development of comprehensive vocabulary and ability to take dictation. Minimum speed requirement: eighty words a minute transcribed at not less than fifteen words a minute with 98 per cent accuracy.

Prerequisite: Business 125 or the equivalent and Business 112 or the equivalent.

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

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

Prerequisite: Business 223 or the equivalent.

225. Secretarial Practice. Spring. (4 q. hrs.)

Professional secretarial levels in taking dictation and transcribing. The role of the secretary in business and the professions. Minimum speed requirement: one-hundred twenty words a minute transcribed at not less than twenty-five words a minute with 98 per cent accuracy.

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

230. Accounting. Fall and Winter. (4 q. hrs.)

The principles of accounting as applied to the sole proprietorship. The balance sheet and income statement lead to the introduction of accounts.

Not open to freshmen.

231. Accounting, Continued. Winter and Spring. (4 q. hrs.)

Accounting as applied to partnerships, with specialized problems.

Prerequisite: Business 230.

232. Accounting, Continued. Spring. (4 q. hrs.)

Continuation of specialized accounting problems, including corporation accounting, cost, budgeting, statement analysis.

Prerequisite: Business 231.

247. Principles of Marketing. Every quarter. (4 q. hrs.)

Current marketing channels; marketing functions and institutions; methods used in marketing agricultural products, raw materials and manufactured goods.

248. Principles of Salesmanship. Every quarter. (4 q. hrs.)

The psychology of salesmanship as it relates to the planning and execution of a sale; principles of general selling.

249. Principles of Retailing. Fall, Winter, and Spring. (4 q. hrs.)

The organization and management of retail stores; location, layout, financing, buying, pricing, credits and collections, stock control, personnel work, business forecasting.

250. Principles of Advertising. Every quarter. (4 q. hrs.)

Social and economic aspects of advertising; kinds of advertising, selection of media; costs; analysis of copy and displays; format; layout; labels; trademarks; slogans; campaigns.

330. Data Processing for Business. Every quarter. (4 q. hrs.)

The nature and function of modern, high speed information handling (data processing) equipment. Includes punched card units and high speed electronic computers with stored program capabilities. Problems on the computers.

331. Data Processing Systems for Business. (Omitted 1965-66.) (4 q. hrs.)

The structure and development of manual, mechanical, and electronic information handling systems. Unit record and computer systems. Basic operational procedures plus the analysis and design of new systems.

Prerequisite: Business 330.

346 (446). Business Law. Fall and Winter. (4 q. hrs.)

Rules governing law and its administration; personal property, contracts; agency, employer and employee; negotiable instruments; bailments; business crimes and torts.

347 (447). Business Law, Continued. Winter and Spring. (4 q. hrs.)

Insurance; carriers; sale of goods; partnership; corporation; deeds of conveyance; mortgages; landlord and tenants; surety and guaranty; bankruptcy; trusts and estates.

Prerequisite: Business 346.

354 (454). Intermediate Accounting. Fall. (4 q. hrs.)

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

Prerequisite: Business 230, 231, 232.

355 (455). Intermediate Accounting, Continued. Winter. (4 q. hrs.)

Liabilities both current and long term, capital stock, surplus, statement analysis, statement of application of funds, partnership formation and operation, partnership dissolution and joint ventures.

Prerequisite: Business 230, 231, 232.

356 (456). Advanced Accounting, Continued. Spring. (4 q. hrs.)

Accounting problems of a specialized nature dealing with installment sales, consignments, agency and branch accounts, corporate combination, consolidated balance sheet and income statements, statements of affairs and receivership accounts.

Prerequisite: Business 230, 231, 232, 354, 355.

370. Credit Management.. Fall and Winter. (4 q. hrs.)

Consumer and commercial credit and collection practices and policies in business organizations. Organization and operation of credit departments.

Prerequisite: Business 230, Economics 256, or permission of the instructor.

380. Investments. Fall and Spring. (4 q. hrs.)

Classification and analysis of the contractual features of securities; the mechanics of investment; determination of the qualities of a security; selection of securities for portfolios. Problems of individual and institutional investors.

Prerequisite: Business 230, Economics 255, or permission of the instructor.

383. Business Report Writing. Fall, Winter, and Spring. (4 q. hrs.)

The organization and preparation of reports of the types used in education, business, and government. Techniques of collecting, interpreting, and presenting information. Study of actual reports.

430. Data Processing Laboratory. Every quarter. (4 q. hrs.)

Experiences in the processing of information by the use of punched card equipment and computer. Use of the card punch,

sorter, reproducer, accounting machine, printer, and the electronic computer.

Prerequisite: Business 330 and consent of the Chairman of the Department of Management.

440. Supervised Experiences in School Business Management.

Every quarter. (4 q. hrs.)

School business is studied under the direction and supervision of a school business manager.

Prerequisite: Consent of the Chairman of the Business Education Department.

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

Employment experience appropriate to the student's major, for one quarter, in a firm approved by the chairman of the student's major department, to be agreed upon by the firm and the department chairman involved.

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

Courses open to Juniors, Seniors, and Graduate Students

451. Principles of Management. Fall, Winter, and Spring.
(4 q. hrs.)

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

452. Personnel Management. Winter and Spring. (4 q. hrs.)

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

453. Office Management. Fall and Spring. (4 q. hrs.)

Duties and responsibilities of the office manager: survey and analysis; development and use of manuals; selection; training, pay and promotion of office employees; controlling office expense and measuring office efficiency; flow of work; purchase and use of office equipment; physical factors; centralization of office services; report writing; quality and quantity standards.

458. Case Problems in Business Law. Spring. (4 q. hrs.)

This course assumes that the student has a knowledge and background of the theory of business law. The course deals with the solution of case problems as applied to the various topics in the field of business law.

Prerequisite: Business 346 and 347 or the equivalent.

460. Cost Accounting. Fall and Spring. (4 q. hrs.)

An introductory course involving principles and methods in handling materials, direct labor and the distribution of overhead expenses. Historical and critical appraisal of product, process cost systems, standard costs.

Prerequisite: Business 230, 231, 232.

461. Income Tax Accounting. Winter and Spring. (4 q. hrs.)

The fundamentals of Federal Income Tax Accounting under the latest amendments to the Internal Revenue code. Income tax blanks and forms are filled in with special emphasis upon the returns of individuals.

Prerequisite: Business 230, 231, 232 or permission of instructor.

462. Payroll Accounting. Fall. (4 q. hrs.)

Payroll accounting with emphasis on social security. Various blanks and forms are worked out. Problems connected with payroll accounting are studied from the point of view of the employer and the employee.

Prerequisite: Business 230, 231, 232.

463. Statement Analysis and Advanced Accounting Problems. Winter and Spring. (4 q. hrs.)

Analysis and interpretation of financial statements with advanced problems. Particular types of statements as they apply to public utilities, industrials, and moneyed corporations.

Prerequisite: Business 230, 231, 232.

464. Auditing. Fall and Spring. (4 q. hrs.)

The examination and verification of accounting for the purpose of establishing the reliability of financial statements. Deals with the nature and application of auditing ethics, standards, techniques, procedures, programs, and reports.

Prerequisite: Business 230, 231, 232, 354, 355.

466. Advanced Income Tax Problems and Research. Spring. (4 q. hrs.)

Emphasis on partnership, corporation, fiduciary tax problems. Consideration given to gift, estate, inheritance taxes. Corporate tax case research and report preparation.

Prerequisite: Business 461.

470. Methods of Teaching Bookkeeping and Accounting.

Fall and Spring. (4 q. hrs.)

Methods, texts, audio-visual aids, professional organizations

and journals are studied. An introduction to teaching experiences. Lectures, discussions, demonstrations and laboratory work to insure mastery of the subject.

Prerequisite: Admission to teacher education.

471. Methods of Teaching Basic Business. Fall and Spring.
(4 q. hrs.)

Methods, texts, audio-visual aids, professional organizations and journals are studied. An introduction to teaching experiences. Lectures, discussions, demonstrations and laboratory work to insure mastery of the subject.

Prerequisite: Admission to teacher education.

472. Methods of Teaching Gregg Shorthand.
Winter and Spring. (4 q. hrs.)

Texts, audio-visual aids, professional organizations and journals are studied. An introduction to teaching experiences. Lectures, demonstrations and laboratory work to insure proficiency in the subject.

Prerequisite: Admission to teacher education.

473. Methods of Teaching Typewriting and Office Practice.
Fall and Winter. (4 q. hrs.)

Methods, texts, audio-visual aids, professional organizations and journals are studied. An introduction to teaching experiences. Lectures, demonstrations and laboratory work to insure proficiency in the subject.

Prerequisite: Admission to teacher education.

480. Principles of Insurance. Fall and Spring. (4 q. hrs.)

A survey of the risks to which man and property are subject and the elimination of the financial consequences of these risks through insurance coverages. Include life, property, and casualty insurance.

481. Business Statistics. Fall and Winter. (4 q. hrs.)

Provides a working knowledge of the statistical tools used in analyzing business problems. Fundamental phases of statistical technique, as graphic presentations, averages, index numbers, sampling error, and simple correlation.

482. Corporation Finance. Winter and Spring. (4 q. hrs.)

The corporation in a possible life cycle of organization, operation, and reorganization or failure; the various forms of corporate securities; financing the corporation management of income.

Prerequisite: Business 230, 231, 232 and Economics 254, 255, 256, or the equivalent.

486. Marketing Research. Fall and Spring. (4 q. hrs.)

A basic course in marketing research. Topics covered are: nature and scope of marketing research; scientific method and research design; specific marketing research procedures; research report, follow-up, and evaluation of research process. Problems.

Prerequisite: Business 247.

487. Market Management Problems. Winter and Spring.

(4 q. hrs)

Marketing problems encountered by businesses that find it necessary to adapt marketing organization and policy to changing economic conditions. Emphasis on the case method in problem analysis.

Prerequisite: Business 247.

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

Individual study programs. The student will be assigned material from literature of his major field selected in cooperation with the department chairman. A written formal report based upon these readings must be submitted.

Prerequisite: Senior standing with strong scholarship as evidenced by cumulative grade point average; permission of the Chairman of the Department of the student's major.

Graduate Courses

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

543. Measurement and Evaluation in Business Education.

Summer. (4 q. hrs.)

Evaluation and development of guidance materials in business education. Testing techniques and the construction of tests, statistical procedures necessary for test interpretation and use.

544. Foundations in Business Education. Summer. (4 q. hrs.)

The evolution of the business curriculum; large and small high schools. Philosophies and objectives of business education are appraised in terms of business occupational requirements.

545. Problems in Business Education. Summer. (4 q. hrs.)

Current business education problems, such as supervision, administration, curriculum, equipment, standards, viewpoints of national leaders; problems growing out of the particular needs and interests of the students.

550. The Corporation in Society. Summer. (4 q. hrs.)

A course for non-business majors to give an understanding of the corporate form of organization; the genesis of the corporate idea and the adaptation of this idea to the requirements of modern society; implications for the individual and society.

May be offered toward the Group III requirement for the degree M.S. in Ed.

595. Thesis. (4 q. hrs.)

Study and investigation in business education for students electing Plan A for the master's degree.

CHEMISTRY

Undergraduate Courses

Chemistry 120, 121, and 122 is a year's sequence planned as a general cultural course and to satisfy the general requirement for a year of laboratory science. This sequence also serves as a foundation for further work in chemistry. Students with the necessary background should enroll in Chemistry 150, 151, 152 in place of Chemistry 120, 121, 122.

Note: A breakage fee of \$3.00 is charged for laboratory courses in chemistry. The unused portion is returnable at the end of the course.

All courses except Chemistry 300, 340, 342, and 450 have two classes and two two-hour laboratories per week. Chemistry 300 has three classes and individual laboratory work. Chemistry 340 meets four times weekly. Chemistry 450 has four two-hour periods weekly with conferences.

120, 121, 122. Introductory Chemistry.

(4 q. hrs. for each course.)

A study of the principles of chemistry, the more important non-metals and a few of the metals. Qualitative analysis is introduced in the third term. The relationship of chemistry to many of today's problems is stressed.

To be taken in sequence. Credit is not granted to students who have received credit for Chemistry 150, 151, 152.

150, 151. General Chemistry.

Fall and Winter. (4 q. hrs. for each course.)

The principles of chemistry are studied with emphasis on bonding, stoichiometry, states of matter, kinetics and equilibrium.

Prerequisite: One unit of high school chemistry which included laboratory work and in which the grade B or A was earned, plus two and a half units of mathematics.

To be taken in sequence. Credit not granted to students who have received credit in Chemistry 120, 121, 122.

152. General Chemistry and Qualitative Analysis.

Spring. (4 q. hrs.)

A continuation of Chemistry 150, 151 with emphasis on ionic equilibrium and qualitative analysis.

Prerequisite: Chemistry 151.

Credit is not granted to students who have received credit in Chemistry 122.

153, 154, 155. Elementary and Organic Chemistry for Majors in Home Economics. 153, Fall. 154, Winter, and 155 Spring. (4 q. hrs. for each course.)

The principles of chemistry and some of the common elements, including carbon, are studied. Chemistry 155 introduces organic chemistry necessary for the understanding of carbohydrates, fats, proteins, textiles, dyes and plastics.

Restricted to home economics majors. To be taken in sequence.

233. Qualitative Analysis and Ionic Equilibrium.

(Omitted 1965-66.) (4 q. hrs.)

The systematic analysis of metallic and non-metallic ions by semi-micro methods, and the study of the principles involved in their separation and identification. Emphasis is placed on an understanding of the equilibrium principles involved rather than the techniques.

Prerequisite: Chemistry 122 or 152; Mathematics 130 or simultaneous registration therein.

234. Quantitative Analysis. Every quarter. (4 q. hrs.)

The general principles of volumetric and gravimetric analysis; critical evaluation of analytical data; theory of neutralization reactions; extensive treatment of problems illustrating each topic.

235. Quantitative Analysis. Winter. (4 q. hrs.)

This is a continuation of Chemistry 234. Experiments include oxidation-reduction and precipitation titrations, additional gravimetric determinations, an electrodeposition and a brief introduction to instrumental analysis.

Prerequisite: Chemistry 234.

300. Photography. Spring. (4 q. hrs.)

The theory and use of the camera, types of emulsion, latent image, development, fixation, printing, enlarging, toning, filters,

color photography, composition. Experiments are assigned in accordance with experience and ability.

Prerequisite: One year of college laboratory science and a camera. The student is to purchase the paper and film he uses. This course does not count toward a major or minor in Chemistry.

342. Practicum in Chemistry. Every quarter. (1 q. hr.)

This course is designed to afford the future chemistry teacher some practical experience in laboratory teaching and in servicing the laboratory. Two hours are to be spent assisting in an elementary chemistry laboratory and two hours in the storeroom each week.

Prerequisite: Two years of college chemistry.

Required of Chemistry majors in the junior year of B.S. in Ed. curriculum. Should be completed prior to student teaching.

343, 344, 345. Organic Chemistry. Chemistry 343, 344, Every quarter; Chemistry 345, Spring.
(4 q. hrs. for each course.)

Chemistry 343 and 344 are studies of aliphatic and aromatic compounds with an introduction to the theories of organic chemistry. Chemistry 345 is a continuation but with major emphasis placed upon identification of organic compounds.

Prerequisite: Chemistry 120, 121 or 150, 151; Chemistry 122 or 152 or simultaneous registration therein. To be taken in sequence.

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

A brief survey of the chemistry of biological materials, of nutrition and of physiological processes.

Prerequisite: Chemistry 343 or 155 (Chemistry 234 is recommended.)

361. Modern Inorganic Chemistry. Spring. (4 q. hrs.)

A study of the structures and reactions of inorganic compounds with particular emphasis on chemical bonding and coordination theory. The laboratory work consists of the preparation of some representative compounds.

Prerequisite: Five quarters of college chemistry.

Courses open to Juniors, Seniors, and Graduate Students

450, 451. Advanced Chemistry. Every quarter by arrangement.
(4 q. hrs. for each course.)

A problem is selected in the area of the student's major interest after consultation with the department head. The methods

used in solving scientific problems are developed through the use of literature, laboratory and consultations.

Prerequisite: Senior standing in chemistry and consent of the head of the department.

470. Instrumental Methods in Chemistry. (Omitted 1965-66.) (4 q. hrs.)

The principles involved in using various instruments and the techniques required for making chemical measurements. Study includes such subjects as colorimetry, chromatography, spectrophotometry, polarography, etc.

Prerequisite: Chemistry 235 and 343.

480. Organic Mechanisms and Preparations. (Omitted 1965-66.) (4 q. hrs.)

A study of the mechanisms of reactions in organic chemistry through the preparation of selected compounds.

Prerequisite: Chemistry 234, 344.

491, 492, 493. Physical Chemistry.

Fall, Winter, Spring. (4 q. hrs. for each course.)

A study of the principles governing chemical change. Included are: thermodynamics; equilibria; kinetic theory; the gaseous, liquid and solid states; solutions; atomic and molecular structure; electro-chemistry, quantum theory and chemical kinetics.

Prerequisite: Chemistry 234. Mathematics 235, 236 or simultaneous registration therein. To be taken in sequence.

494. Nuclear Chemistry. Winter. (4 q. hrs.)

Radioactivity and the radioactive properties of isotopes are studied in relationship to their chemical properties and uses.

Prerequisite: Five terms of chemistry including 234 and/or 361, or permission of the department head.

Graduate Courses

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

500. Seminar. (Omitted 1965-66.) (2 q. hrs.)

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

Prerequisite: Chemistry 234 and 344, and permission of the head of the department.

501. History of Chemistry. (Omitted 1965-66.) (2 q. hrs.)

The sources of chemical information including abstracts, journals, texts and reference works are consulted in the study of the historical development of chemistry.

536. Biological and Food Chemistry. Spring. (4 q. hrs.)

A course designed to study the chemistry of biological materials and processes, including the chemistry of foods and nutrition.

Prerequisite: Chemistry 343 or permission of the head of the department.

595. Thesis. (4 q. hrs.)

ECONOMICS

Undergraduate Courses

254. Principles of Economics. Every quarter. (4 q. hrs.)

The nature of economics, the American economic system, business organization, personal finance, labor-management relations, government finance, national income analysis.

Not open to freshmen.

255. Principles of Economics (continued).

Every quarter. (4 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. Winter. (4 q. hrs.)

Principles of foreign trade and lending, the nature of international payments, tariffs and quotas, commercial policies currently being followed by the major countries participating in the world economy.

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

356 (456). 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 (457). Labor Economics. Fall and Spring. (4 q. hrs.)

An intensive study of labor as a factor in the economic system; history of the labor movement; technique and objectives of labor organization; fundamental issues in labor-management disputes; labor legislation.

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.

454. History of Economic Thought. Winter. (4 q. hrs.)

The ancient world; scholasticism; mercantilism; the physiocrats; Adam Smith and classical economics; Marx; Veblen; Keynes.

Prerequisite: Economics 254, 255, 256.

460. Intermediate Economic Analysis. Fall. (4 q. hrs.)

A study of commodity and factor price theory.

Prerequisite: Economics 254, 255, 256.

462. Economic Stability and Growth. Winter. (4 q. hrs.)

An analysis of factors affecting the level of national economic activity, its fluctuation, and rate of increase.

Prerequisite: Economics 254, 255, 256.

465. Economics of Underdeveloped Areas. Spring. (4 q. hrs.)

An intensive study of the economic structures of the underdeveloped areas of the world. An analysis of the causes of their continuing low levels of output will be followed by an examination of the policy alternatives open to them for the development of their economies.

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

480 (458). Money and Banking. Fall. (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 (459). 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.

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.

May be offered toward the Group III requirement for the degree M.S. in Ed.

EDUCATION**Undergraduate Courses****120, 121. Laboratory in Education.** Every quarter. (1 q. hr.)

A laboratory course with emphasis on directed observations and individualized experiences with children of pre-school and elementary school ages, under a variety of environmental conditions.

Required of and restricted to freshmen and transfer students in the elementary education curriculum.

220. Workshop. (Omitted 1965-66.) (4 q. hrs.)

Opportunity to work on individual problems with guidance of staff members.

Registration by permission only.

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.

311. Directing Learning in the Junior High School.

Fall. (4 q. hrs.)

Selection, organization, presentation of learning experiences and evaluation; application of principles of learning, classroom

management, guidance as applied to junior high school organization; teacher relationships to staff, home, and community.

Prerequisite: Education 232 and admission to teacher education.

312. Instructional Media in the Junior High School.

Fall. (4 q. hrs.)

Nature, purpose, current trends in developmental reading programs in junior high school. Development of skill and appreciation of values, uses, and sources of instructional materials and equipment.

Prerequisite: Education 232 and admission to teacher education.

313. Teaching Social Studies and Language Arts in the Junior High School. Winter. (4 q. hrs.)

The objectives of social studies and language arts programs exclusive of reading; the nature, selection, and utilization of materials, methods, and content with emphasis upon integration of the two areas.

Prerequisite: Education 311 and admission to teacher education.

314. Teaching Mathematics and Science in the Junior High School. Spring. (4 q. hrs.)

The nature and scope of materials and methods in teaching mathematics and science, with concern for the possibilities of correlation of the two areas.

Prerequisite: Education 311 and admission to teacher education.

324. Directing Learning in the Elementary School.

Every quarter. (4 q. hrs.)

Selection, organization, presentation of learning experiences; emphasis on application of principles of learning, instructional programs, classroom management, guidance, evaluation; teacher relationship to staff, home, community, and the profession.

Prerequisite to student teaching. Prerequisite: Education 232 and admission to teacher education.

327. Elementary Curriculum: Teaching Social Studies and Language Arts; Use of Instructional Materials in the Elementary School. Every quarter. (4 q. hrs.)

Objectives, techniques, and materials of social studies and language arts excluding reading and children's literature; instruction in handwriting is included. Patterns of curriculum or-

ganization, unit teaching, selection and utilization of instructional materials and equipment.

Prerequisite: Education 324 and admission to teacher education.

328. Developmental Reading in the Elementary School.

Every quarter. (4 q. hrs.)

Basal reading program from kindergarten through junior high school; nature, purpose, and current trends in reading instruction; guiding principles, types of reading materials, techniques; evaluating progress.

Prerequisite: Education 324 and admission to teacher education.

329. Science in the Elementary School. Every quarter. (4 q. hrs.)

Selection and development of units, demonstrations, and laboratory work.

Prerequisite: Life Science 116, 117; Physical Science 100, 101; Education 324; admission to teacher education.

332. Educational Psychology. Every quarter. (4 q. hrs.)

Individual growth and development with emphasis upon the secondary student, learning theories and ways of facilitating the learning process, measurement and evaluation with emphasis upon standardized testing.

Prerequisite: Psychology 231 and admission to teacher education.

333. The Instructional Task in the Secondary School.

Every quarter. (4 q. hrs.)

Secondary school teaching as a profession; the secondary curriculum, guidance in the secondary school; selection and use of instructional materials; the development of a secondary reading program.

Prerequisite: Education 332 and admission to teacher education.

334. Kindergarten Education. Winter and Spring. (4 q. hrs.)

Aims, organization, equipment and curriculum for nursery school and kindergarten, including recent trends and techniques. Prerequisite to teaching practicum in kindergarten.

Prerequisite: Education 324 and admission to teacher education.

344. Measurements and Evaluation. Every quarter. (4 q. hrs.)

Standardized testing; statistical methods applied to testing; construction, administration, and technical analysis of evaluative devices for classroom use.

Prerequisite: Education 232 or 332 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.

Courses open to Juniors, Seniors, and Graduate Students**458. Vocational Education.** (Omitted 1965-66.) (4 q. hrs.)

A course in the history, organization and administration of vocational education. Federal and state laws affecting vocational schools are considered.

459. Advanced Educational Psychology. Fall. (4 q. hrs.)

Theories of learning; transfer and functional learning; creative thinking and problem solving; "teaching machines" and other self-instructional devices.

Prerequisite: Twelve quarter hours in education and psychology.

460. Problems in Secondary Education. (Omitted 1965-66.)
(4 q. hrs.)

Concerned with specific problems in the evolution of secondary education, student activities, curriculum, guidance and evaluation. Each student is assigned an individual problem.

Prerequisite: Twelve quarter hours in education and psychology.

464. History of Education in the United States.
Fall. (4 q. hrs.)

The colonial roots of pluralism; the single-track system; expansion of institutions and enrollments; and modern cross-currents.

Prerequisite: American history. Admission to teacher education.

465. Special Educational Problems. (On demand.)
(4 q. hrs.)

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

Prerequisite: Junior standing or experience in teaching and permission of the instructor.

466. Modern Trends in Education. (Omitted 1965-66.)
(4 q. hrs.)

Study of changes, trends, and problems in modern education with emphasis on underlying theories. Each student chooses for intensive study a problem of particular interest to him.

Prerequisite: Twelve quarter hours in education and psychology; admission to teacher education.

469. Problems in the Teaching of Reading.
Fall and Spring; Summer. (4 q. hrs.)

A study of the types of reading and study difficulties; methods of diagnosis and remedial work useful to classroom teachers and supervisors. Experience with children in clinic whenever possible.

Prerequisites: Sixteen quarter hours in education and psychology.

470. Language Arts in the Elementary School.
Spring. (4 q. hrs.)

A critical review of objectives proposed for language arts instruction (exclusive of reading and children's literature) with

emphasis on their implications concerning organization of the program, content, materials, and procedures.

Prerequisite: Twelve quarter hours in education and psychology.

471. Teaching of Social Living in the Elementary School.

Winter. (4 q. hrs.)

A course in methods and materials related to teaching social living. Designed to aid teachers, supervisors, and administrators in understanding the role of history, civics, geography, and the natural sciences as interacting factors in solving social problems.

Prerequisite: Twelve quarter hours in education and psychology.

477. The Junior High School. (Omitted 1965-66.) (4 q. hrs.)

A course concerned with certain aspects of junior high school education—historical development, basic philosophy, practices.

Prerequisite: Twelve quarter hours in education and psychology, including Education 232 or 332 and Education 324 or 333.

480. School Organization and Administration.

Fall; Summer. (4 q. hrs.)

Educational administration in social and historical perspective; authentication of principles of administration; application of principles; legal structure of education as a state function.

Prerequisite: Twelve quarter hours in education and psychology.

481. Work of the Principal in the Modern School.

Winter; Summer. (4 q. hrs.)

A basic professional course for the principalship in either the elementary or secondary school. The discussion, materials, and assigned problems are adapted to the interests and needs of the individual student.

Prerequisite: Twelve quarter hours in education and psychology, Education 480.

485. School Law. Spring; Summer. (4 q. hrs.)

A course designed to develop an understanding of the basic legal factors related to the school. Professional and extra-legal controls are also considered.

Prerequisite: Twelve quarter hours in education and psychology.

487. Introduction to Audio-Visual Education.

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

Theory and principles for use of audio-visual materials in teaching. Experiences are provided in the operation, selection, and utilization of audio-visual aids.

Prerequisite: Twelve quarter hours in education and psychology.

488. Preparation and Use of Instructional Materials.

Summer. (4 q. hrs.)

Production of locally prepared audio-visual materials using the techniques of mounting, lettering, and reproducing by pictorial or graphic means. Emphasis is upon improving communication in the learning process.

Prerequisite: Twelve quarter hours in education and psychology.

489. Special Problems in Audio-Visual Education.

Winter. (4 q. hrs.)

Special study on problems of production, administration and utilization of audio-visual materials in schools.

Prerequisite: Education 487, Education 488 or equivalents.

490. Principles and Techniques of Guidance.

Fall, Winter, Summer. (4 q. hrs.)

An introductory course; principles and purposes underlying guidance activities; means by which guidance activities may be carried on in the school system.

Prerequisite: Twelve quarter hours in education and psychology.

Graduate Courses

(Courses numbered 500-549 inclusive may be taken by a senior whose grade point average is 3.0 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.)

544. Educational Statistics. (Omitted 1965-66). (4 q. hrs.)

Fundamentals of statistics and their application.

Prerequisite: Twelve quarter hours in education and psychology.

550. Principles of Curriculum Development. Every quarter.
(4 q. hrs.)

Basic concepts underlying curricula; processes used in curriculum development. Building of evaluative criteria for analyzing current and proposed curricula.

Credit applicable to Group I of the requirements for the degree M.S. in Ed.

551. Social Foundations of Education. Fall; Summer.
(4 q. hrs.)

Some of the effects of cultural patterns, economic changes, social stratifications, community and institutional organizations.

Credit applicable to Group I of the requirements for the degree M.S. in Ed.

552. Understanding the Individual.

Every quarter. (4 q. hrs.)

Personality development and concepts of the self; need satisfaction and perception of threat; problems of adjustment and determinants of personality.

Prerequisite: Twelve quarter hours in education and psychology. Credit applicable to Group I of the requirements for the degree M.S. in Ed.

553. Philosophy of Education. Winter; Summer. (4 q. hrs.)

A study of some modern educational ideologies and of their relations with ethics, politics, religion, and art.

Credit applicable to Group I of the requirements for the degree M.S. in Ed.

554. History of Educational Thought. Spring, Summer.
(4 q. hrs.)

Important educational events and ideas as these developed in Western civilization; the historical perspective for evaluating present controversies and trends.

Credit applicable to Group I of the requirements for the degree M.S. in Ed.

560. Introduction to Graduate Study. Fall; Summer. (4 q. hrs.)

The nature and responsibilities of advanced professional study. Gives experiences in locating and defining problems, in using research techniques, in writing in acceptable form, and in interpreting and evaluating research.

Prerequisite: Sixteen hours of education and psychology.

570. Psycho-Social Development in Childhood. Spring.
(4 q. hrs.)

A discussion of psychological and cultural forces which shape the behavior patterns of the growing child.

Prerequisite: Sixteen hours of education and psychology.

571. Psycho-Social Development of the Adolescent and Young Adult. Fall. (4 q. hrs.)

A discussion of psychological and cultural forces which shape the behavior patterns of the growing child.

Prerequisite: Sixteen hours of education and psychology.

572. Measurement Applied to Guidance. Fall and Winter.
(4 q. hrs.)

A study of the selection, administration, scoring, and interpretation of standardized tests and other measuring techniques suitable for use in guidance programs.

Prerequisite: Sixteen hours of education and psychology.

573. Play Therapy. (Omitted 1965-66). (4 q. hrs.)

The importance of play in education; discussion of theories and values of play; using play as therapeutic treatment.

Prerequisite: Education 574 and 593.

574. Personality Dynamics. Fall. (4 q. hrs.)

A study of the nature of personality and of various theories of personality with attention given to techniques of personality evaluation.

Prerequisite: Sixteen hours of education and psychology.

576. Student Personnel Work in Higher Education.
(Omitted 1965-66.) (4 q. hrs.)

A study of the backgrounds of personnel functions in higher education including specific reference to such problems as admissions, discipline, student activities, housing, scholarship programs.

Prerequisite: Education 590.

577. Residence Hall Personnel Work.
(Omitted 1965-66). (4 q. hrs.)

A study of the functions of persons charged with managing and supervising university residence halls including administrative, business, counseling, and teaching duties.

Prerequisite: Education 490.

578. Theories of Aptitudes and Abilities.

(Omitted 1965-66). (4 q. hrs.)

A study of the nature of human abilities. Examination of individual differences and traits. Theories of vocational behavior.

Prerequisite: Education 592 or permission of department.

579. Independent Study in Guidance. (On demand.) (4 q. hrs.)

Intended to permit a student to pursue more intensively various aspects of the area of his special interest.

Prerequisite: Education 590. Permission of the department.

580. Problems in School Administration. Fall; Summer.

(4 q. hrs.)

An advanced seminar in problems of significance to educational administration.

Prerequisites: At least 12 credits in administration and supervision plus completion of Group I courses.

581. School Supervision—A Group Process.

Fall; Spring; Summer. (4 q. hrs.)

The origin and development of the supervisory function. The roles of teachers, supervisors, and administrators in the practical application of theories of supervision.

Prerequisite: Education 550.

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

Covers concepts and procedures for relating proposed school plants to the instructional program and community resources. Considers site selection, financing, legal requirements and the administration of the building program.

Prerequisite: Education 480 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 480 or equivalent.

590. Current Practices and Problems in Counseling.

Winter; Summer. (4 q. hrs.)

A course in theory and practices of counseling with emphasis upon the duties of the school counselor.

Prerequisite: Education 490.

591. Organization and Administration of Guidance and Personnel Services. Spring; Summer. (4 q. hrs.)

Principles and current trends in organization and administration of school guidance programs; types of organizations, public relations, integration of guidance services and curriculum.

Prerequisite: Education 490.

592. Occupational, Educational, Personal, and Social Information. Winter; Summer. (4 q. hrs.)

A study of sources, evaluation, and use of occupational, educational, personal, and social information. Employment conditions, job requirements and training facilities.

Prerequisite: Education 490.

593. Counseling Practicum. Fall; Spring; Summer. (4 q. hrs.)

Supervised practice in counseling individual students. Practice provided at the level of the graduate's primary interest.

Prerequisite: Education 590, 592.

594. Principles and Techniques of Group Guidance.

Spring. (4 q. hrs.)

A study of the principles and their application in the area of group guidance including techniques of group discussion, sociometrics, and role-playing.

Prerequisite: Education 590.

595. Thesis. (4 q. hrs.)

596. The Junior College Movement. Winter. (4 q. hrs.)

History of the junior college movement in the United States with special attention to problems and issues affecting junior colleges in Illinois. Research is utilized in examining the extent to which the junior college is achieving its stated objectives.

Prerequisite: Sixteen hours of education and psychology.

597. Seminar in Guidance. Summer. (4 q. hrs.)

Discussion of current problems and trends in guidance. Critical examination and evaluation of current literature in the field.

Prerequisite: Education 590 and 592.

601, 602. The Field Experience in Administration.

Winter; Spring. (4 q. hrs. for each course)

The field experience is designed to provide a comprehensive experience planned by the student's committee and the supervi-

ing administrator. Evaluation and supervision is the responsibility of the advisor.

Prerequisite: Admission to Candidacy for the Certificate of Advanced Study and approval of the department.

690. Field Study in Guidance. (Internship.) (4-8 q. hrs.)

Supervised experience in all services normally considered a part of the guidance program.

Prerequisite: Education 593 and approval of the department.

ENGLISH

Note. A student who enters the University with a deficiency in the basic skills in English—reading, writing, spelling, elements of grammar and good usage—may be required to take work in remedial English in addition to the required freshman composition courses.

Demonstration of English Proficiency. A demonstration of English proficiency is prerequisite to graduation. Students who have passed the Junior English Examination prior to September 1, 1964, will be considered as having met this requirement. Other students are required to demonstrate proficiency in one of the following ways.

1. A student whose average in English 120 and 121 is "B" or higher is considered as having met the requirement.
2. A transfer student who has met the requirement for exemption from English 220 has satisfied the requirement.
3. A student enrolled in English 220 who achieves a grade of "C" or "AC" on the departmental examination has met the requirement.
4. A student in a curriculum which does not require English 220 can satisfy the proficiency requirement by taking the departmental examination in English 220 and making a grade of "C" or "AC". A student who wishes to do this must register with the English Department two weeks prior to the beginning of the final examination period.

Undergraduate Courses

120. Composition. Every quarter. (4 q. hrs.)

A basic course in communication, including listening, reading, speaking, and writing. Many short themes required to develop facility in writing correct, effective sentences and paragraphs. Some study of rhetorical and grammatical principles.

121. Composition. Every quarter. (4 q. hrs.)

Further study of rhetoric and grammar. Longer units of composition in which problems of organization, coherence, and unity are studied. One research paper required in addition to ten themes of three or four pages each.

Prerequisite: English 120.

123. Story-Telling. (Omitted 1965-66). (4 q. hrs.)

Theory and practice in telling stories to children of different ages.

126. Grammar. Fall, Winter and Spring. (4 q. hrs.)

A study of the English sentence, with some attention to the parts of speech. This is primarily a course for those preparing to teach in the upper grades or in junior or senior high school English, but is open to any student.

220. Composition. Fall, Winter and Spring. (4 q. hrs.)

Additional practice in composition, intended to strengthen the student's competence in clear and forceful writing.

Prerequisite: English 120, 121, and sophomore standing.

245. A Survey of English Literature I. Fall and Winter. (4 q. hrs.)

English prose and poetry (including drama) from *Beowulf* to Bunyan. Adequate attention to the occasional short masterpieces of the minor writers and special study of the major works of greater writers.

246. A Survey of English Literature II.

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

English prose and poetry (including drama) from Dryden to DeQuincey. Adequate attention to the occasional short masterpieces of the minor writers and special study of the major works of greater writers.

247. A Survey of English Literature III.

Winter and Spring. (4 q. hrs.)

English prose and poetry (including drama) from Macaulay to Dylan Thomas. Adequate attention to the occasional short masterpieces of the minor writers and special study of the major works of greater writers.

250. American Literature I. Fall, Winter, and Spring. (4 q. hrs.)

A survey of American Literature from Colonial times through the Transcendental Movement, stressing trends and major writers.

Special emphasis is given to works of Edward Taylor, Nathaniel Hawthorne, Edgar Allan Poe, Ralph Waldo Emerson, and Henry David Thoreau.

251. American Literature II. Fall, Winter, and Spring.

(4 q. hrs.)

A survey of American literature from the close of the Transcendental Movement to 1900, stressing trends and major writers. Special emphasis is given to works of Herman Melville, Walt Whitman, Emily Dickinson, Mark Twain, and Henry James.

252. American Literature III. Fall, Winter, and Spring.

(4 q. hrs.)

A survey of American literature from 1900 to the present, stressing trends and major writers. Special emphasis is given to works of E. A. Robinson, Robert Frost, T. S. Eliot, William Faulkner, and Ernest Hemingway.

260. English Novel to 1850. Fall. (4 q. hrs.)

English 260 treats of fiction of the first half of the nineteenth century with emphasis upon the novels of Austen, Thackeray, Dickens, Trollope, Scott, the Brontes. Standards of good fiction, past and present, are discussed.

261. English Novel From 1850 to 1900. Winter. (4 q. hrs.)

English 261, a continuation of English 260, is concerned with the fiction of the latter half of the nineteenth century as represented by the novels of George Eliot, Hardy, Meredith, Stevenson, Willkie Collins.

262. The American Novel to 1900. Spring. (4 q. hrs.)

A study of the best American novels before the twentieth century, with emphasis on the works of Hawthorne, Melville, Twain, and James.

Prerequisites: English 120, 121.

263. The Twentieth Century Novel: English and American.

Spring. (4 q. hrs.)

An analysis of selected novels by major figures in English and American fiction such as Joyce, Dreiser, Fitzgerald, Hemingway, Steinbeck, Lawrence. Emphasis is on types and trends in the modern novel.

Prerequisite: Sophomore standing advisable.

270. Modern Drama. (Omitted 1965-66). (4 q. hrs.)

The purpose of this course is to familiarize the student with what is best in modern drama.

275. Literature of the Old Testament. Spring. (4 q. hrs.)

An objective study of types of literature of the Old Testament—simple narratives, biography, history, law, short story, drama, prophecy, poetry, and wisdom literature. Some attention is paid to historical backgrounds.

310. Studies in Major American Poets. Fall. (4 q. hrs.)

A study in depth of various major American poets, such as Taylor, Whitman, Dickinson, Robinson, Frost. Only one or two poets will be studied during any given quarter, and the poet or poets studied may vary from quarter to quarter.

322. Literature in the Grades. Fall, Winter and Spring.

(4 q. hrs.)

Emphasizes chiefly wide acquaintance with the great bodies of world literature—myth, legend, etc.—and with the best poetry suitable for children.

Required in the elementary curriculum for lower grades. Not accepted for elective credit in other curricula.

325. Greek Drama. (Winter.) (4 q. hrs.)

Origin and development of classical drama. Aeschylus, Sophocles, Euripides, with a study of Greek life and thought, and their contribution to our culture.

Prerequisite: English 120, 121, 125.

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. (Omitted 1965-66.)

(4 q. hrs.)

A study of American literature from its beginnings through the Revolutionary period. Essays, biographies, poetry, and fiction will be studied both for their intrinsic value and for their importance as a background for subsequent literary expression in America.

340. Methods of Teaching English in the High School.

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

Important topics connected with English in the high school are covered as fully as time permits.

Prerequisite: Admission to teacher education.

355. Advanced Rhetoric. Winter. (4 q. hrs.)

Chiefly written composition, applying the principles of organization and effective expression to somewhat more extended material than do English 120 and 121.

Prerequisite: Twelve quarter hours of English.

356. Creative Writing. Spring. (4 q. hrs.)

Practice in finding, organizing and presenting materials for poetry, the familiar essay, the biographical sketch, and the short story. Emphasis is placed on materials drawn from the writer's experience and environment.

360. Studies in Major American Novelists. Winter. (4 q. hrs.)

A study in depth of various major American novelists, such as Hawthorne, Melville, Twain, James, Faulkner, Hemingway. Only one or two novelists will be studied during any given quarter, and the novelist or novelists studied may vary from quarter to quarter.

361. World Literature: Ancient and Medieval. Fall. (4 q. hrs.)

Reading in translation of representative masterpieces of the ancient world and of the middle ages.

English 361 is not a prerequisite for English 362 or 363, but it is recommended that the courses be taken in sequence.

362. World Literature: Renaissance to 1850. Winter. (4 q. hrs.)

Emphasis on generally recognized masters, Rabelais, Montaigne, Shakespeare, Goethe, Moliere, Racine, Cervantes, and others.

363. World Literature: Since 1850. Spring. (4 q. hrs.)

Readings in the masterpieces of realism, naturalism, symbolism: Balzac, Flaubert, Dostoevsky, Tolstoy, Ibsen, Mann, Proust, Faulkner, and others.

370. Twentieth Century British Literature. Fall. (4 q. hrs.)

Representative writings in twentieth century British literature (exclusive of the novel) with special attention to Conrad, Yeats, Joyce, and Eliot.

379. Nineteenth Century American Poetry. Spring. (4 q. hrs.)

A study of major trends and significant figures in nineteenth century American poetry. Various genres, such as the lyric and the epic, are considered, and attention is given to the relationship between poetic theory and practice.

380. Theory and Practice of Modern Drama I. Fall. (4 q. hrs.)

Ibsen and his contemporaries. A course taught cooperatively by the Department of English and the Department of Speech and Drama. The aim of the course is to give the student experience in intellectual analysis and interpretation of significant dramatic works, and also experience in acting and directing. Acting is optional.

381. Theory and Practice of Modern Drama II. Winter. (4 q. hrs.)

Shaw and his contemporaries.

382. Theory and Practice of Modern Drama III. Spring.
(4 q. hrs.)

O' Neill, Miller, Williams, Ionesco, etc.

Courses open to Juniors, Seniors, and Graduate Students**450. History of the English Language.** Fall, Winter and Spring.
(4 q. hrs.)

The development of the English language from Anglo-Saxon to the language of today.

Prerequisite: English 126 or its equivalent. Not open as elective in other curricula except by special permission of the head of the English department.

453. Sixteenth and Seventeenth Century Prose. Spring.
(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 1965-66.)
(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. (Omitted 1965-66.)
(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. Fall. (4 q. hrs.)

Henry Fielding, Richardson, Goldsmith, Smollett, Sterne, Walpole, Johnson.

457. Nineteenth Century English Prose. (Omitted 1965-66.)
(4 q. hrs.)

Major nineteenth century English prose writing (exclusive of fiction) of Carlyle, Macaulay, Newman, Lamb, Hazlitt, Mill, Froude, Thackeray, Ruskin, Arnold, Huxley, Coleridge, Wordsworth, Morris, Pater, Stevenson.

459. Methods of Teaching Children's Literature.
(Omitted 1964-65.) (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 1965-66.) (4 q. hrs.)

A study of the non-Chaucerian literature of the Middle Ages, including a brief initial survey of Old English literature; stress on major types: religious prose and poetry, social commentary, lyric poetry, the romance, drama.

470. English Poetry. Fall. (4 q. hrs.)

English poetry from 1550 to 1798, exclusive of Milton and the precursors of romanticism.

471. Poetry of the Romantic Period. Winter. (4 q. hrs.)

Precursors of Romanticism and Blake, Burns, Wordsworth, Coleridge, Byron, Shelley, Keats.

472. Poetry of the Victorian Period. Spring. (4 q. hrs.)
Tennyson and Browning, etc.

475. Milton. (Omitted 1965-66.) (4 q. hrs.)

A study of the life, prose, and poetry of John Milton, and his relationship to the literary trends of his century.

480. Chaucer. Fall. (4 q. hrs.)

Canterbury Tales; the London dialect out of which modern English grew; the life of the times.

481. Chaucer. Winter. (4 q. hrs.)

A study of *Troilus* and *Criseyde* and such other works as *The House of Fame*, *The Parliament of Fowls* and *The Legend of Good Women*; a study of the London dialect out of which modern English grew; and ideas of the time such as courtly love, predestination and free will.

490 (457). Elizabethan Drama. (Omitted 1965-66.)
(4 q. hrs.)

A survey of the development of the English drama of the Renaissance, based on the works of the major playwrights of the period, including selected plays of Shakespeare.

491 (458). Drama of the Restoration and Eighteenth Century.
(Omitted 1965-66.) (4 q. hrs.)

A critical survey of the dramatic development beginning with the plays of the latter seventeenth century and culminating in the comedies of Sheridan and Goldsmith.

Graduate Courses

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

500. Literary Criticism. Fall. (4 q. hrs.)

An extensive study of the basic principles of evaluating the standard literary forms—epic, dramatic, lyrical, and prose narrative.

512. Tennyson and Browning. Winter. (4 q. hrs.)

Alfred Tennyson and Robert Browning are studied against the background of their lives and of the Victorian Age. As the two greatest and most representative poets of the period, they offer an interesting contrast to each other.

550. Comparative Literature. (Omitted 1965-66.) (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.

May be offered toward the Group III requirement for the degree M.S. in Ed.

551. Biography. (Omitted 1965-66.) (4 q. hrs.)

A survey of biography designed to whet the reader's interest in the major periods of culture, English and American.

May be offered toward the Group III requirement for the degree M.S. in Ed.

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

Intermediate and upper division modern language courses are conducted in the language.

Placement in the foreign language courses of students who wish to continue a language begun in high school is indicated by the following table. Permission of the department is necessary for initial enrollment beyond the courses in Column III.

I Number of high school units in the language	II Course in (or beyond) which the student may enroll for college credit.	III Course in which initial enrollment is recommended if grades in high school courses in the language average B or higher.
1 year	Latin 121 French 131 German 121 or 131 Russian 141 Spanish 131	Latin 122 French 132 German 122 or 132 Russian 142 Spanish 132
2 years	Latin 122 French 132 German 122 or 132 Russian 142 Spanish 132	Latin 220 French 230 German 233 Russian 250 Spanish 230
3 years	Latin 220 French 230 German 233 Russian 250 Spanish 230	Latin 221 French 231 German 234 Russian 251 Spanish 231
4 years	Latin 222 French 232 German 235 Russian 252 Spanish 232	a course numbered above 300

A student who enrolls in a course earlier in sequence than that indicated in Column II will not receive credit toward graduation, but may have the course reported to the State Teacher Certification Board in partial fulfillment of the minimum requirement for certification to teach the language.

A student may apply for proficiency examinations for college credit in courses listed on the appropriate line in Column III or more advanced courses, but not in courses earlier in sequence.

The following courses are approved to apply toward the literature portion of the humanities requirement:

French 333, 334, 335, 450, 451, 452, 510, 511, 512

German 353, 355, 362, 363, 453, 454, 511, 512

Russian 360, 361, 363

Spanish 321, 322, 323, 456, 457, 458, 510, 511, 512

LATIN

Undergraduate Courses

120, 121, 122. Elementary Latin. Fall, Winter, Spring.
(4 q. hrs. for each course.)

The aim in this course is to teach the student the fundamentals of the language. Special attention is given to the influence of Latin on English.

No credit given for less than a year's work.

220. Introductory Latin Reading. Fall. (4 q. hrs.)

Selection from Aulus Gellius, Phaedrus, and Caesar.

Prerequisite: Latin 122, or two years of Latin in high school.

221. Vergil's Aeneid. Winter. (4 q. hrs.)

Selections from Books I to VI. Greek and Roman mythology; scansion; sight translation; life of Vergil.

Prerequisite: Latin 220 or equivalent.

222. Orations of Cicero. Spring. (4 q. hrs.)

Readings from the four orations against Catiline. Cicero's career and the political background of the conspiracy of Catiline are discussed.

Prerequisite: Latin 221 or equivalent.

310 (210). Readings in Roman History and Mythology.
(Omitted 1965-66.) (4 q. hrs.)

Selections from Caesar, Eutropius and Sallust.

Prerequisite: Latin 222 or four years of Latin in high school.

311 (211). Selected Letters. (Omitted 1965-66.) (4 q. hrs.)

Readings from the correspondence of Cicero and Pliny.

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

312 (212). Roman Biography. (Omitted 1965-66.)

(4 q. hrs.)

Readings from Cornelius Nepos.

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

330. Cicero's Essays, Selections From De Amicitia and De Senectute. Fall. (4 q. hrs.)

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

331. Horace, Selections From The Odes, Satires, and Epistles. Winter. (4 q. hrs.)

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

332. Livy, Selections From Books I, XXI, XXII. Spring.

(4 q. hrs.)

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

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

Prerequisite: Admission to teacher education.

433 (343). Ovid, Selections From Trista, Heroides, Amores, Fasti, Metamorphoses. (Omitted 1965-66.) (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 (344). Latin Composition. (Omitted 1965-66.) (4 q. hrs.)

The purpose of this course is to give the prospective Latin teacher a facility in the use of the more elementary constructions. The exercises are based upon the authors usually read in high school.

Prerequisite: Three years of college Latin or permission of the department.

435 (345). Medieval Latin. (Omitted 1965-66.) (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.** Fall. (4 q. hrs.)
- 451. Selections From Catullus and Martial.** Winter. (4 q. hrs.)
- 452. Roman Comedy. The Menaechmi and Captives of Plautus; The Phormio and Andria of Terence.** Spring. (4 q. hrs.)

FRENCH**Undergraduate Courses**

- 130, 131, 132. Elementary French.** Fall, Winter and Spring. (4 q. hrs. for each course.)

Principles of grammar; phonetics; pronunciation and drill in rhythm and intonation; reading of simple French texts; conversation.

No credit for graduation for less than a year's work.

- 230, 231, 232. Second Year French.** Fall, Winter and Spring. (4 q. hrs. for each course.)

Review of grammar; exercises in composition; conversation; readings.

Prerequisite: Two years of high-school French or one year of college French.

- 330. Applied Linguistics.** Fall. (4 q. hrs.)

Application of principles of linguistic analysis to modern French. Systematic drills are used to build the student's knowledge of the structure of French and to eliminate errors caused by the patterns of the student's native English.

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

- 331. French Grammar and Composition.** Winter. (4 q. hrs.)

Review and consolidation of principles of grammar; their application in writing, language drills, translations, compositions.

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

- 332. Aspects of French Civilization.** Spring. (4 q. hrs.)

A study of some of the outstanding moments and figures in the history of French culture and civilization.

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

333. 17th Century Drama. Fall. (4 q. hrs.)

Selected works: Moliere, Racine, Corneille.

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

334. 18th Century Drama. Winter. (4 q. hrs.)

Selected works: Lesage, Voltaire, Beaumarchais, Marivaux.

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

335. 19th Century Drama. Spring. (4 q. hrs.)

Selected works: Hugo, Musset, Dumas fils, Rostand, Maeterlinck, Claudel.

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

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

Prerequisite: Admission to teacher education.

Courses open to Juniors, Seniors, and Graduate Students**450. Survey of French Literature From The Middle Ages To The 18th Century.** Fall. (4 q. hrs.)

Readings: Chanson de Roland, Villon, Marot, Rabelais, Ronsard, Descartes, Pascal, La Rochefoucauld, Mme de Sevigne, La Fontaine, La Bruyere, Boileau.

451. Survey of French Literature of The 18th Century.

Winter. (4 q. hrs.)

Readings: Lesage, Montesquieu, Voltaire, Diderot and the Encyclopedistes, Bernardin de Saint-Pierre, Chenier.

452. Survey of French Literature of The 19th Century.

Spring. (4 q. hrs.)

Readings: Chateaubriand, Mme de Staël, Lamartine, Hugo, Vigny, Musset, Gautier, Balzac, Sainte-Beuve, Flaubert, Taine, Renan, Leconte de Lisle, Baudelaire, Daudet, Maupassant, Zola.

Graduate Courses

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

510 (453). French Novel I: Before Balzac. (Omitted 1965-66.) (4 q. hrs.)

A study of selected novels of Mme de La Fayette, Le Sage, Prevost, Constant, Dumas, Hugo, George Sand.

612 (455). French Novel III: Proust to the Present.

(Omitted 1965-66.) (4 q. hrs.)

A study of selected novels of Balzac, Stendhal, Flaubert and Zola.

512 (455). French Novel III: Proust to the Present.

(Omitted 1965-66.) (4 q. hrs.)

A study of selected novels of Proust, Alain Fournier, Gide, Mauriac, and Camus.

595. Thesis. (4 q. hrs.)**GERMAN****Undergraduate Courses****120, 121, 122. Scientific German. (Omitted 1965-66.)**

(4 q. hrs. for each course.)

Introduction to the reading and translation of German in technical fields such as physics, chemistry, and biology; the essentials of grammar; systematic development of a German scientific vocabulary; elementary readings in science will be followed by the reading of current scientific periodicals published in Germany and Switzerland.

No credit given for less than a year's work.

130, 131, 132. Elementary German.

Fall, Winter and Spring. (4 q. hrs. for each course.)

Direct method: equal emphasis upon conversation, grammar, reading; incorporation of cultural, geographical, and historical information; extensive use of audio-visual aids.

No credit given for less than a year's work.

233, 234, 235. Second Year German. Fall, Winter and Spring.

(4 q. hrs. for each course.)

Rapid review of grammar; practice and vocabulary-building exercises in conversation, and regular exercises in composition; intensive reading of selected short stories and novels.

Prerequisite: German 122 or 132 or two years of high school German.

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

Prerequisite: Admission to teacher education.

353. Masterpieces of German Literature. Fall. (4 q. hrs.)

Introduction to German literature, its themes, forms, and ideals.

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

354. Conversation and Writing. Winter. (4 q. hrs.)

Training in writing German, diction and pronunciation.

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

355. Twentieth Century German Literature. Spring. (4 q. hrs.)
(4 q. hrs.)

Introduction to trends of modern civilization as reflected in contemporary German literature: Hofmannsthal, Rilke, Trakl, Hauptmann.

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

361. Applied Linguistics. (Omitted 1965-66.) (4 q. hrs.)

Application of the findings of descriptive linguistics to the study and the teaching of German; the results of linguistic analysis and their practical significance both to the student of that language and to the teacher.

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

362. Schiller's Dramas. (Omitted 1965-66.) (4 q. hrs.)

A study of the development of German classicism as embodied in Schiller's dramas; the theory, structure and dramaturgy of the classical drama in Germany.

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

363. Lyrics and Ballads. (Omitted 1965-66.) (4 q. hrs.)

A poetical and metrical survey of German lyrical verse from its beginning to modern times, with critical analyses of representative poems.

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

Courses open to Juniors, Seniors, and Graduate Students**453. German Literature to 1700.** Fall. (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. Winter. (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.

Spring. (4 q. hrs.)

Advanced training in writing and speaking German for improvement in grammar, syntax and style; essays and discussions will be drawn from various aspects of the literature studied in courses 453 and 454.

Graduate Courses

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

510 (456). History of German Civilization.

(Omitted 1965-66.) (4 q. hrs.)

Analysis of selected topics from German culture and civilization.

511 (457). Modern German Drama. (Omitted 1965-66.)

(4 q. hrs.)

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

512 (458). Goethe. (Omitted 1965-66.) (4 q. hrs.)**595. Thesis.** (4 q. hrs.)

RUSSIAN

Undergraduate Courses

140, 141, 142. Elementary Russian. Fall, Winter and Spring. (4 q. hrs. for each course.)

Pronunciation; basic grammar; written and oral exercises; reading of simple Russian prose.

No credit for graduation for less than a year's work.

250, 251, 252. Second Year Russian. Fall, Winter and Spring.
(4 q. hrs. for each course.)

Study of grammar continued; written and oral exercises; reading of moderately difficult Russian prose.

Prerequisite: Russian 140, 141, 142.

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

Prerequisite: Admission to teacher education.

360. Modern Russian Authors. (Omitted 1965-66.) (4 q. hrs.)

Reading of short selections from a wide range of authors such as Pushkin, Tolstoy, Dostoyevsky, Turgenev, Saltykov-Shchedrin, Lermontov, Gogol, Chekhov, Gorky, Sholokhov, and Simonov.

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

361. Masterpieces of Russian Literature. The Russian Novel in the 19th Century. (Omitted 1965-66.) (4 q. hrs.)

Reading of selected chapters from *War and Peace*, *Anna Karenina*, *Brothers Karamazov*, *Crime and Punishment*, *Dead Souls*, and *Fathers and Sons*.

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

362. Russian Readings in the Sciences and Social Sciences.
(Omitted 1965-66.) (4 q. hrs.)

Readings in history, politics, current events, business, industry, steel-making, physics, chemistry, geography, and psychology.

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

363. Chekhov and Other Russian Dramatists.

(Omitted 1965-66.) (4 q. hrs.)

The Three Sisters and *The Cherry Orchard* by Chekhov. *The Lower Depths* by Gorky, and one play of the Soviet period will be read in their entirety.

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

SPANISH

Undergraduate Courses

130, 131, 132. Elementary Spanish. Fall, Winter and Spring.
(4 q. hrs. for each course.)

The aim in elementary Spanish is to give the student a work-

ing knowledge of the language. To that end great stress is laid upon pronunciation, conversation, and the use of records, and films.

No credit for graduation for less than a year's work.

230, 231, 232. Second Year Spanish. Fall, Winter and Spring.
(4 q. hrs. for each course.)

The first month of Spanish 230 is devoted to a review of the elements of the language. Several comedies and stories are read. Ample opportunity is given for conversation in Spanish; numerous films are used to acquaint students with the history and culture of Spanish speaking countries.

Prerequisite: Two years of Spanish in high school or one year in college.

321 (453). Introduction to Spanish Literature From 12th to 15th Centuries. Fall. (4 q. hrs.)

Study of development of medieval Spanish literature.

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

322 (454). Introduction to Spanish Literature From 16th to 17th Centuries. Winter. (4 q. hrs.)

Study of development of Renaissance and Golden Age Spanish literature.

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

323 (455). Introduction to Spanish Literature From 18th to 20th Centuries. Spring. (4 q. hrs.)

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

330 (462). Introduction to Spanish American Civilization. Fall.
(4 q. hrs.)

A study of contemporary civilization in Spanish America against a view of the history of the area from the period of the discovery.

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

331. Spanish Composition and Conversation. Winter. (4 q. hrs.)

Intermediate level course continuing the skills of speaking and writing developed in the second year. Guided conversation, grammar review, oral and written composition.

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

332. Introduction to Spanish American Literature. Spring.
(4 q. hrs.)

A study of selected writings and literary history from the Colonial Period to the present.

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

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

Prerequisite: Admission to teacher education.

410. Advanced Composition and Conversation.

(Omitted 1965-66.) (4 q. hrs.)

A study of fundamental aspects of spoken and written Spanish. Frequent oral and written reports required.

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

411 (310). Modern Short Stories of Spain.

(Omitted 1965-66.) (4 q. hrs.)

Reading of Spanish short stories from latter part of the 19th century to present. Analysis and oral discussions in Spanish.

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

412 (461). Survey of Spanish Culture and Civilization.

(Omitted 1965-66.) (4 q. hrs.)

A study of contemporary civilization in Spain against a view of the history of the Peninsula from ancient times.

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

Courses open to Juniors, Seniors, and Graduate Students

456 (336). The Short Story in Spanish America.

Fall. (4 q. hrs.)

A study of the development of the short narrative in Spanish America, and the reading of short stories from representative authors.

457 (337). Modern Poetry of Spanish America. Winter.

(4 q. hrs.)

A study of the poetry of Spanish America, from the *modernista* movement to the present.

458 (338). Modern Novel of Spanish America. Spring.

(4 q. hrs.)

A study of selected 19th and 20th century novels.

Graduate Courses

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

510 (450). Poetry of Spain. (Omitted 1965-66.) (4 q. hrs.)

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

511 (451). Selected Modern Drama of Spain. (Omitted 1965-66.) (4 q. hrs.)

Reading of complete modern dramas of Spain from second half of the 19th century to present, with emphasis in current developments in Spanish theater. Discussions in Spanish.

512 (452). Modern Novels of Spain. (Omitted 1965-66.) (4 q. hrs.)

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

595. Thesis. (4 q. hrs.)**CLASSICS****Graduate Courses**

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

550. Greek Literature in English Translation. (Omitted 1965-66.) (4 q. hrs.)

Reading and discussion of masterpieces of Greek literature by the following authors: Homer (*The Iliad and the Odyssey*); lyric poets; Aeschylus (*Prometheus Bound**); Sophocles (*Oedipus the King**); Euripides (*Hippolytus**); Aristophanes (*The Clouds*); Herodotus (*The Persian Wars*); Thucydides (*The Peloponnesian War*); Plato (*The Apology*,* *Phaedo*, *Republic*); Aristotle (*Nicomachean Ethics*, *Politics and Poetics*); Epictetus (*The Manual*); Demosthenes (*On the Crown*). (Works followed by an asterisk are read in their entirety.)

May be offered toward the Group III requirement for the degree M.S. in Ed.

551. Latin Literature in English Translation.

(Omitted 1965-66.) (4 q. hrs.)

Reading and discussion of selections from Latin literature: in comedy, a play of Plautus and Terence; in tragedy, the *Medea* of Seneca; in philosophy, Lucretius, Cicero, and Seneca; in history, Caesar, Sallust, Livy, Suetonius, and Tacitus; in poetry of various types, Catullus, Vergil, Horace, Tibullus, Propertius. Ovid, Martial, and Juvenal. No knowledge of Latin required.

May be offered toward the Group III requirement for the degree M.S. in Ed.

FRENCH

(See Foreign Languages)

GEOGRAPHY**Undergraduate Courses**

Geography 140, 141, 142 provide a general cultural sequence, and background to further study in the earth sciences.

Geography 150, 151 are planned as a sequence in beginning geography. Geography 150 is generally a prerequisite for more advanced courses.

Geography 300, 301, and 302 are required in the elementary curriculum under the old plan, but are open to all students on an elective basis. These courses substitute for Geography 236, 221, and 120 in that order, to meet the former requirements in the elementary curriculum.

140. Physical 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.

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.

No prerequisite. Geography 140, 141, and 142 need not be taken in sequence.

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 utilizes a study of the earth as the home of man.

151. Regional Geography of North America.

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. Fall. (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 in industry, agriculture, and aviation.

Prerequisite: Geography 141 or permission of instructor.

242. Regional Geomorphology. (Omitted 1965-66.) (4 q. hrs.)

A study of the landforms of the United States; work with maps of landforms with consideration of their composition and the processes by which they were formed.

Prerequisite: Geography 142 or permission of instructor.

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

A study of the physical history of the earth's crust and the record in rocks and the evolution of life forms as evidenced by fossil records.

Prerequisite: Geography 140.

300. Elementary Earth Science. Spring. (4 q. hrs.)

Physical elements of geography as an earth science; phenomena of earth shape and motions, daylight, time, and seasons analyzed as they affect the earth as man's home. Common Illinois rocks and minerals, land forms, and earth features introduced. Local field trips.

Open on an elective basis to all students.

301. Elementary Geography. (Omitted 1965-66.) (4 q. hrs.)

Regional geography of the world is analyzed as based on physical factors. Emphasis is placed on man and the working bonds he has developed with various environments, chiefly climatic.

Open on an elective basis to all students.

302. North America. (Omitted 1965-66.) (4 q. hrs.)

Man's occupancy of the continent of North America with special emphasis on the United States. The regional approach is used with some time spent on the wise utilization of resources.

Prerequisite: One course in geography. Open on an elective basis to all students. No credit if Geography 151 has been taken.

340. Methods and Materials in Geography. Fall. (4 q. hrs.)

The nature of geography and its place among the disciplines and in the school curriculum. Texts, reference materials, visual and other aids, and classroom procedures considered. Some classroom experience in teaching techniques.

Prerequisite: Admission to teacher education.

351. Geography of the Caribbean Lands. Winter. (4 q. hrs.)

An analysis of the resources, culture and problems of Mexico, Central America and West Indian Islands. Recent political, economic and population changes in the area are emphasized.

360. Economic Geography. Every quarter. (4 q. hrs.)

An examination of world industries and 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 in the world scene.

361. Advanced Economic Geography I. (Omitted 1965-66.) (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. (2 q. hrs.)

A study of Illinois, climate, landforms, soil, water and mineral resources. Population distribution and economic activities. Geography of the state also interpreted in the light of its historical setting.

380. Cartography. Spring. (4 q. hrs.)

Instruction and practice in the fundamentals of map projection, map construction, and reproduction.

381. Field Techniques and Problems. (Omitted 1965-66.)
(4 q. hrs.)

Actual 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 population of the world. Analysis is made of the origins, development, distribution, character, structure, and functions of urban centers.

Courses open to Juniors, Seniors, and Graduate Students**450. North America.** (Omitted 1965-66.) (4 q. hrs.)

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

451. Geography of South America. (Omitted 1965-66.)
(4 q. hrs.)

The geographic basis for stages of development and for economic relations of South America with the rest of the world treated, but especially the United States. Provides for better understanding of our South American neighbors.

452. Geography of Europe. (Omitted 1965-66.) (4 q. hrs.)

A study of the countries of Europe showing the geographic basis for their stages of development and commercial and political relations; emphasis upon current problems.

453. Geography of Asia. Winter. (4 q. hrs.)

A study of the continent with the main emphasis on China, Japan, India, and the East Indies.

454. Geography of Africa and Australia. Spring. (4 q. hrs.)

A regional study of Africa and Australia. Political and economic regions are considered. The physical environment and the economic development of these two continents are compared.

455. Geography of the U.S.S.R. Winter. (4 q. hrs.)

A regional study of the Soviet Union. Includes a study of the physical as well as the cultural environment in which the Russian people live and work. Analysis of the present economic development and of the industrial potential of the Soviet Republic.

456. The North American Midwest. (Omitted 1965-66.) (4 q. hrs.)

A regional approach to climate, settlement, agriculture, industry, trade and transportation of central United States. The emphasis is on the geography of Illinois.

470. Historical Geography of the United States.

(Omitted 1965-66.) (4 q. hrs.)

A study of the elements of geography and the role they have played in the various stages in the settlement and subsequent development of the United States.

471. Political Geography. (Omitted 1965-66.) (4 q. hrs.)

A study of the great world powers in the light of their geographic conditions. Analysis is made of current "hot spots" and the fundamentals of national strength.

480. Advanced Cartography. (Omitted 1965-66.) (4 q. hrs.)

A study of the history, uses, and construction of maps, cartographic work and use of aerial photographs; individual projects and problems.

Prerequisite: Geography 380.

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

Morphology of soils, soil forming factors, and soil classification and associations. World distribution of soil types, detailed study directed to the soils of selected areas of agricultural and botanical importance.

Prerequisite: Geography 140, 141, 142 or permission of instructor. Botany 120, 121, 222 are strongly recommended before this course is taken.

487. Regional Problems in Conservation.

(Omitted 1965-66.) (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 in Geography. Every quarter.
(1-4 q. hrs.)

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

Graduate Courses

(Courses numbered 500-549 inclusive may be taken by a 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. Literature and Materials of Geography. Spring. (4 q. hrs.)

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

550. Geography in World Affairs. Spring. (4 q. hrs.)

Working bonds between man and the environment; emphasis upon the natural resources, agricultural and industrial production and transportation in national affairs. Problems of international politics and their geographic foundations.

May be offered toward the Group III requirement for the degree M.S. in Ed.

551. A Geography of Man. (Omitted 1965-66.) (4 q. hrs.)

Designed to give the student a better understanding of the role of geography in human affairs. Special attention given to the literature of the field and recent developments in geography.

May be offered toward the Group III requirement for the degree M.S. in Ed.

552. Earth Interpretations. Winter. (4 q. hrs.)

Cultural course for the student with little or no previous work in physical geography. Physical resources are analyzed as they are inter-related to each other and to man.

May be offered toward the Group III requirement for the degree M.S. in Ed.

553. Bio-Geography. (Omitted 1965-66.) (4 q. hrs.)

Factors which influence plants and animals: distribution, climatic conditions, glaciation, soils, physiognomy, migration, including barriers, succession, climax, and competition.

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

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

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

(See Foreign Languages)

HEALTH EDUCATION**Undergraduate Courses****120. Personal Hygiene.**

Every quarter. (4 q. hrs.)

Personal hygiene for young adults in college: emotional problems; sex, marriage, parenthood; nutrition; fatigue and rest; alcohol and tobacco; immunization; related personal and public health problems.

320. School and Community Health Problems.

Every quarter. (4 q. hrs.)

A survey of the school health program with particular emphasis on the teacher's role in healthful school living, health services, and health instruction. School-community relationships are emphasized as well as those between teaching personnel and other responsible persons.

Prerequisite: Health Education 120 or its equivalent.

330. Safety Education. Winter. (4 q. hrs.)

Safety problems of modern life in the home, school, during recreation, on the highway, and at work.

331. Introduction to Driver Education.

Fall and Spring. (4 q. hrs.)

The first of two courses designed to prepare teachers of driver education for secondary schools; laboratory work with beginning drivers.

Prerequisite: Student must have (1) valid driver's license and (2) a safe driving record.

332. Advanced Driver Education and Traffic Safety.

Spring. (4 q. hrs.)

A continuation of Health Education 331, with special attention to administration, organization, finance, adult education and evaluation of the school driver education program.

Prerequisite: Health Education 331 or concurrent enrollment in this course.

HISTORY

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 and Winter. (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. (4 q. hrs.)

A study of the emergency of modern Europe, rise of national states, Renaissance, Reformation, Catholic Reformation, age of discovery and exploration, age of Philip II—1556-88, rise of absolutism in France—1598-1660, decline of monarchy in England—1603-69, Thirty Years' War—1618-1648. Age of Louis XIV.

247. European History, c. 1715-1870.

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

Rise of Russia and Prussia in the eighteenth century; colonial rivalry of France and England; the Enlightenment; French Revolution and Napoleon.

248. European History, 1870 to Present.

Spring. (4 q. hrs.)

Triumph of nationalism in Germany and Italy; Second Industrial Revolution; background of World War I; World War I; Fascism, Nazism, World War II; Cold War.

281. Latin-American History to 1830. Fall (4 q. hrs.)

Exploration and settlement of the Spanish and Portuguese empires in the western world; colonial development; the era of revolution and independence; the relationships between the Latin-American colonies and nations with the English colonies and the United States.

Prerequisite: Sophomore standing.

282. Latin-American History Since 1830. Winter. (4 q. hrs.)

Political, economic, and cultural development; relationships between the Latin-American republics and the United States. The Monroe Doctrine; the Pan-American Union; the "Good Neighbor" policy; the origination of the American states.

Prerequisite: Sophomore standing.

343. History of England to 1603. Fall. (4 q. hrs.)

Early settlement of the British Isles; Roman occupation, Anglo-Saxon civilization; the early Church; the Norman Conquest and relations with France; the development of the common law and Parliament; the development of the Church and the separation of the Anglican Church; English art and literature.

344. History of England and the British Empire, 1603 to 1815.
Winter. (4 q. hrs.)

Discovery, colonial expansion, the founding of the British Empire; the constitutional struggles and the supremacy of Parliament; the commercial, agricultural, and industrial revolutions; the literature and science of the period; the struggle with France for colonial supremacy.

345. History of the British Empire Since 1815.
Spring. (4 q. hrs.)

The reformation of Parliament; the development of industry and commerce and trade rivalry; development of scientific thought; the First World War and its consequence; the Empire's greatest test in the Second World War.

370. History of Illinois. (Omitted 1965-66.) (2 q. hrs.)

The Indian culture; the French regime; the British period; the old Northwest; the frontier state; the Civil War; the industrial state; the twentieth century.

371 (492). Expansion and Disunion, 1820 to 1861.

Fall and Spring. (4 q. hrs.)

Jacksonian Democracy; Manifest Destiny; Slavery and Abolition; Lincoln, Douglas and Davis; Secession.

Prerequisite: History 233, 234.

372 (471). Civil War and Reconstruction. Winter. (4 q. hrs.)

The causes of the Civil War; political, economic, and social problems during the War; the military phases of the War; post-war problems both North and South; the Civil War as a revolution.

Prerequisite: History 234 or consent of instructor.

378 (478). Czarist Russia. 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.

379 (479). Soviet Russia. Spring. (4 q. hrs.)

The organization of the Communist Party; the Revolution of 1917; Lenin and Stalin; Russia and World War II.

384 (484). Renaissance and Reformation. (4 q. hrs.)

Humanism; Italian art; Northern art; Luther's theology; Zwingli; John Calvin's Theology; Age of Charles V 1517-1556.

397 (497). History of the Ancient Near East.

(Omitted 1965-66.) (4 q. hrs.)

Ancient Egypt, Babylonia, and Persia; special emphasis on Hebrew history. Designed to serve as historical background for a better understanding of the Old Testament.

398 (458). Hellenic History. Winter. (4 q. hrs.)

An advanced course in the history of the ancient Greeks dealing primarily with the character and achievements of this great culture, centering in the Age of Pericles. Other materials presented are designed to show the relationship of this period to the Hellenistic Age that follows, with specific reference to modern times.

Prerequisite: History 244.

399 (498). The Roman Empire. Spring. (4 q. hrs.)

An analysis of the Roman Empire at its height, with particular emphasis on those conditions which provide an adequate background for a study of the New Testament and the beginnings of the Christian religion.

423 (473). Special Problems in European History.

(Omitted 1965-66.) (4 q. hrs.)

Special study by intensive reading in an area of history of interest to the student.

Prerequisite: History 244, 245, 246, 247 and 248.

Courses open to Juniors, Seniors, and Graduate Students

453. Constitutional History of England.

(Omitted 1965-66.) (4 q. hrs.)

A study of the English constitution to the time of Henry VII. Emphasis on the development of political institutions essential to western democracy, special emphasis on the development of the common law, the court system, the conflicts between king and parliament, and changing character of the British constitution.

Prerequisite: One year of history or consent of the instructor.

454. Constitutional History of England.

(Omitted 1965-66.) (4 q. hrs.)

A study of the English constitution since the time of Henry VII. Emphasis on the development of political institutions regarded as essential to western democracy, with special emphasis

on the development of the common law, court system, conflicts between king and parliament, and the changing character of the British constitution.

Prerequisite: One year of history or consent of the instructor.

456. Intellectual History of Europe: Ancient and Medieval.
Fall. (4 q. hrs.)

A study of the history of ideas in the Greek and Rome of antiquity and Europe in the Middle Ages, including the channels of expressions of ideas in philosophy, art, literature, music, etc., the place of ideas in the political, economic, and social setting of each age, and their influence on later ages.

Prerequisite: History 244 and 245.

457. Intellectual History of Europe: Modern.
Winter. (4 q. hrs.)

The history of ideas since the Renaissance, including the Reformation, rationalism and the rise of science, the Enlightenment, 19th century romanticism, nationalism, conservatism, liberalism, Marxian radicalism, Darwinism, 20th century science, philosophy and political ideologies.

Prerequisite: History 246, 247, and 248.

460. Recent United States History, 1900-1930.
(Omitted 1965-66.) (4 q. hrs.)

This course will be an intensive study of America's rise to world power, the Progressive Era, the United States' role in the First World War, the 1920's, and the background to the Great Depression.

461. Recent United States History, Since 1930.
Spring. (4 q. hrs.)

This course will be an intensive study of the Great Depression, the New Deal, Isolationism, the U.S. and the Second World War, the Cold War, the Truman Era, and the Eisenhower Years.

464. Major Problems in Latin-American History.
(Omitted 1965-66.) (4 q. hrs.)

A systematic, analytic, and interpretive examination of major problems of Latin-American history. Beginning with the principal aspects of the 300-400 years of Spanish and Portuguese heritage, the study proceeds through the national period to the present, considering the main features arising from the environment of the New World, in conjunction with the legacy of the Old.

465. Latin America and the United States.

(Omitted 1965-66.) (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 1800.

Fall. (4 q. hrs.)

The English constitutional background; the colonial government; the Declaration of Independence; the Articles of Confederation; the early state constitutions; the making of the Constitution; the early administrations.

Prerequisite: History 233, 234, 235 or consent of instructor.

470. Constitutional History of the United States Since 1800.

Winter. (4 q. hrs.)

The Marshall decisions; nullification and secession controversy; the reconstruction era; the Court and big business; the New Deal and the Court; modern attitudes toward civil liberties.

Prerequisite: History 233, 234, 235 or consent of instructor.

476. The American Colonies. Fall. (4 q. hrs.)

Colonization of the area now included in the United States; the political, economic, and social development of the American colonies to 1763.

Prerequisite: History 233.

477. The American Revolution and Confederation.

Winter. (4 q. hrs.)

The background and causes of the American Revolution; political and social results of the revolution; problems of the Critical Period; formation of the Constitution.

Prerequisite: History 233.

483. History of Canada. (Omitted 1965-66.) (4 q. hrs.)

The French regime; the British conquest of French Canada; the change to Dominion status; relationships between Canada and the United States.

485. Europe in the Eighteenth Century. Fall. (4 q. hrs.)

The struggle to maintain the balance of power; the contest for empire; the development of responsible government in England; the origins of industrial and agricultural revolution.

486. The World in the Twentieth Century I.

(Omitted 1965-66.) (4 q. hrs.)

Origins of World War I; Versailles and its aftermath; the emergence of new small nations and the spread of nationalism in Asia; the rise of Communism, Fascism and Nazism; the Great Depression; the era of dictatorship.

489. The French Revolution. (Omitted 1965-66.) (4 q. hrs.)

The Old Regime; Estates-General and National Assembly; Republic, Consulate, and Empire; the Napoleonic System; Waterloo.

490. Europe in the 19th Century. Spring. (4 q. hrs.)

Congress of Vienna; Reaction and Revolution; the Industrial Revolution; the Second Empire; unification of Italy and Germany; Parliamentary reform in Great Britain; Triple Alliance and Triple Entente.

491. The Study and Teaching of Local History.

(Omitted 1965-66.) (4 q. hrs.)

The locations and nature of local historical records and remains and their use in teaching history in the public schools. A

seminar type course, lectures, student reports, field work in Charleston and vicinity.

Prerequisite: History 233, 234, 235, or experience in teaching United States History in the junior high school or senior high school.

495. Social and Intellectual History of the United States in the Colonial Period. (Omitted 1965-66.) (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. (Omitted 1965-66.) (4 q. hrs.)

The development of ideas and way of life in the United States in the 19th Century.

Prerequisite: History 233 and 234.

Graduate Courses

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

545 (472). Special Problems in American History.

Fall. (4 q. hrs.)

Special study by intensive reading in an area of history of interest to the student. The student will be allowed to investigate a significant topic in American history through extensive reading of the primary and secondary material in the field.

Prerequisite: History 233, 234, 235.

550. Abraham Lincoln. Fall. (4 q. hrs.)

A case study of historical biography. Lincoln biographies, special studies and documents are studied. Off-campus resources are used.

May be offered toward the Group III requirement for the degree M.S. in Ed.

551 (494). The Literature of American History.

(Omitted 1965-66.) (4 q. hrs.)

May be offered toward the Group III requirements for the degree M.S. in Ed.

552 (493). The Literature of the History of Western Civilization.

Winter. (4 q. hrs.)

A study of the great historical writings against the backgrounds of the times and places in which they were written.

Prerequisite: Survey courses in world or European history at the college level.

May be offered toward the Group III requirements for the degree M.S. in Ed.

561. Historiography and Historical Methods. Winter. (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. Fall. (4 q. hrs.)

Intensive study of special topics in American history, to be determined by the interests of the students.

564. Seminar in European History. Fall. (4 q. hrs.)

Intensive study in special topics in European history, to be determined by the interests of the student.

565. Seminar in Colonial American History. Spring. (4 q. hrs.)

Research in topics dealing with colonial American history.

566. Seminar in Civil War and Reconstruction.

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.

(Omitted 1965-66.) (4 q. hrs.)

Intensive study in topics dealing with eighteenth century Europe.

569. Seminar in Nineteenth Century Europe.

Winter. (4 q. hrs.)

Intensive study in topics dealing with nineteenth century Europe.

570. Seminar in Twentieth Century Europe.

Spring. (4 q. hrs.)

Intensive study in topics dealing with twentieth century Europe.

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

Home Economics 210, 211, 212, 310, 320, 401, 420, 430 have two lectures and two laboratory periods per week; Home Economics 101, 201, 301 meet eight periods per week; all other Home Economics courses meet four periods per week.

Undergraduate Courses**101. Principles of Clothing Construction.**

Every quarter. (4 q. hrs.)

A study of the principles of simple construction processes; interpretation and use of commercial patterns.

102. Nutrition. Every quarter. (4 q. hrs.)

The principles of human nutrition and their application to everyday nutritional problems; the relation of good food habits to the selection of an adequate dietary.

For majors only. (See Home Economics 303 for non-majors.)

131. Clothing Selection. Every quarter. (4 q. hrs.)

An introduction to consumer buying of ready-to-wear clothing; includes the study of fabrics, construction features, and design and color principles.

201. Advanced Clothing Construction.

Every quarter. (4 q. hrs.)

Principles involved in the selection of fabrics, designs and patterns. Emphasis on advanced construction techniques and garment fitting.

Prerequisite: Home Economics 101 or consent of instructor.

210. Principles of Food Preparation. Fall. (4 q. hrs.)

A study of the scientific principles and techniques underlying food preparation with special emphasis on physical and chemical changes involved, and the evaluation of a standard product.

Prerequisite: Chemistry 153, 154, 155 or consent of instructor.

211. Principles of Food Preparation Continued.

Winter. (4 q. hrs.)

Continued study of the scientific principles and techniques underlying food preparation.

Prerequisite: Home Economics 210.

212 (204). Studies in Experimental Foods.

Spring. (4 q. hrs.)

Physical and chemical reactions in food preparation and their relation to the finished product when experimental procedures are applied.

Prerequisite: Home Economics 211.

230. Household Equipment. Fall and Winter. (4 q. hrs.)

Selection, construction, operation and care of household equipment and their relation to the well-being of the family group.

231. Sociology of Clothing. Fall and 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.

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. Spring. (4 q. hrs.)

Factors affecting family financial management, including the influence of economic conditions on the welfare of families. Investments and savings; use of credit; insurance, and various types of family accounts.

301. Tailoring. Winter and Spring. (4 q. hrs.)

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

Prerequisite: Home Economics 201.

302 (344). Advanced Nutrition. Spring. (4 q. hrs.)

Principles of human nutrition and desirable dietary habits as applied to the needs of individuals at various stages in the life span; some emphasis on current nutrition research.

Prerequisite: Home Economics 102.

303. Human Nutrition and Food Study.

Fall and Winter. (4 q. hrs.)

Fundamentals of normal nutrition and its application to feeding adults and children; principles involved in menu building, food buying and preparation.

For non-majors only.

310 (203). Family Food Management. Fall (4 q. hrs.)

Application of scientific principles of menu construction, food buying, food preparation and table service meals at various cost levels. Special emphasis on management and work simplification techniques.

Prerequisite: Home Economics 210, 211.

320. Family Housing. Fall and Winter. (4 q. hrs.)

Choices available in moderate-priced housing; arrangement and use of space; legal and financial considerations in renting, buying, or building; methods and materials of construction.

340. Methods of Teaching Home Economics. Spring. (4 q. hrs.)

The principles of teaching applied to home economics with particular emphasis on developing the curriculum, and the organization and administration of vocational departments in the public schools.

Prerequisite: Admission to teacher education.

345. Home Management House Residence.

Every quarter. (4 q. hrs.)

Experience in the practical application of the principles of household management is offered through residence in the home management house.

Prerequisite: Home Economics 210, 211, and 245. Advanced registration with department required.

346. Child Development. Spring. (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.

360. Institutional Food Management. (Omitted 1965-66.)

(4 q. hrs.)

Methods of food preparation in quantity; menu planning for institutions; recipe selection and standardization; economical use of materials and time. Practical experience is offered in the University food service.

Prerequisite: Home Economics 102, 210, and 211.

401. Principles of Pattern Design. Winter. (4 q. hrs.)

Principles of designing clothing and the translation of these designs into paper patterns; includes pattern drafting, grading, and fitting garments. Each student is required to create an original design, draft the pattern, and construct the garment.

Prerequisite: Home Economics 301 or consent of instructor.

420. Interior Design. Winter and Spring. (4 q. hrs.)

Selection and arrangement of furnishings with the emphasis on planning costs and budgets for different income levels; planning of individual rooms including the study of accessories, color schemes, and suitable fabrics.

430. Home Furnishings. Spring. (4 q. hrs.)

A study of the consumer's problems in the selection of home furnishings. Making of draperies, slip covers, and the upholstering of furniture is included in the laboratory work.

431. Textiles and Senior Seminar. Spring. (4 q. hrs.)

An advanced study of textile fibers, yarns, weaves, and finishes. Current trends and research in home economics.

INDUSTRIAL ARTS

Undergraduate Courses

100. Industrial Mathematics. (Omitted 1965-66.) (4 q. hrs.)

Applications of arithmetic, algebra, geometry, and trigonometry to the laboratory work of industrial arts. Logarithmic tables and applications.

Open only to Industrial Arts majors. No credit toward graduation in other curricula.

131. Engineering Graphics. Fall and Spring. (4 q. hrs.)

Work in multiview, graphs, isometric drawing and isometric projection, oblique projection, sectional views, and dimensioning. Fundamental concepts of descriptive geometry. For pre-engineering students.

134. Woodwork I. Fall and Winter. (4 q. hrs.)

Function, care, and use of woodwork hand tools, woodwork supplies, and finishes. Two class discussions and six periods of laboratory work each week.

135. Woodwork II. Winter and Spring. (4 q. hrs.)

Continuation of Industrial Arts 134: study and use of power woodwork equipment. Two class discussions and six periods of laboratory work each week.

Prerequisite: Industrial Arts 134.

140 (136). General Metal. Fall and Spring. (4 q. hrs.)

The development of manipulative techniques in the use of hand tools and machines for working iron, steel, and non-ferrous metals; processes in forming, shaping and finishing hot and cold metal. Two class discussions and six periods of laboratory work each week.

150. Applied Electricity. Every quarter. (4 q. hrs.)

A study of principles of electricity as they apply to house wiring, appliances, laboratory power circuits and automotive ignition. Four class discussions and two periods laboratory work each week.

224. Primary Grade Industrial Arts.

Every quarter. (4 q. hrs.)

Dissemination of subject matter information; laboratory experiences with industrial materials as a teaching device in the lower grades. Two lectures and six laboratory periods per week.

This course is not open to industrial arts majors.

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

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

This course is not open to industrial arts majors.

231. Mechanical Drawing I. Fall and Winter. (4 q. hrs.)

Techniques of drafting, instrument practice, sketching, geometrical construction, pictorial drawing, multiview projection, dimensioning, sectioning, and reproduction of drawings. One class discussion and seven periods of laboratory work each week.

232. Mechanical Drawing II. Winter and Spring. (4 q. hrs.)

Pictorial sectioning, representation of machine fasteners, development of surfaces and intersections. One class discussion and seven periods of laboratory work each week.

Prerequisite: Industrial Arts 231.

233. Mechanical Drawing III. Spring. (4 q. hrs.)

Techniques of drafting as applied to industrial working drawings in design, layout, detail drawings, assembly drawings, parts lists, gearing and cams. Shop sketching is included.

Prerequisite: Industrial Arts 232.

245. Industrial Arts Design. Fall and Winter. (2 q. hrs.)

Designing as applied to Industrial Arts projects is the principal emphasis. The functional approach is used with fitness to materials, techniques, physical, social and psychological considerations as factors influencing design.

259. Introduction to Graphic Arts. Fall and Winter. (4 q. hrs.)

Laboratory experiences in hand composition, platen presswork, bookbinding, papermaking, and rubber stamp making. Information about industrial practices, occupations, and graphic arts in education. Two class discussions and six periods laboratory work per week.

260. Advanced Graphic Arts. Winter and Spring. (4 q. hrs.)

Further laboratory experiences in hand composition, imposition, platen presswork, and linoleum block cutting. Information about typographic design, halftone, paper, ink, type design, and layouts. Two class discussion and six periods of laboratory work each week.

Prerequisite: Industrial Arts 259.

265. Woodfinishing. Fall and Winter. (2 q. hrs.)

Discussion periods: preparation of surfaces to be finished, bleaches, stains, fillers, resinous finishes, wipe-on finishes and refinishing.

Laboratory: experimenting with a variety of finishes applied with various methods to a variety of woods.

300. Applied Electronics. Fall. (4 q. hrs.)

A study of and assembly of electronic circuits used in radio receivers, transmitters and automated controls of machines. Two class discussions and 4 periods of laboratory work each week.

Prerequisite: Industrial Arts 150.

326. Sheet Metal. Winter and Spring. (4 q. hrs.)

Techniques in the use of hand tools and machines for shaping sheet metal; practice in surface development; study of pertinent subject matter. Two class discussions and six periods of laboratory work each week.

Prerequisite: Industrial Arts 232.

336. Millwork. Every quarter. (4 q. hrs.)

Furniture and cabinet making with woodwork machines; care and adjustment of machines; spray finishing; planning laboratory activities. Two class discussions and six periods of laboratory work each week.

Prerequisite: Industrial Arts 135, 232, 245, and 265. The student pays for material used in this course.

340. Methods of Teaching Industrial Arts.

Fall and Spring. (4 q. hrs.)

The selection, organization, and preparation of instructional content for class and laboratory use. Application of appropriate principles of teaching.

Prerequisite: Six industrial arts laboratory courses. Admission to teacher education. Students completing this course may not elect Industrial Arts 341.

341. Organizing and Teaching the General Shop.

Fall and Spring. (4 q. hrs.)

From the general shop approach the following is included: choosing objectives of work; selecting and organizing teaching materials; laboratory planning; and testing.

Prerequisite: Six industrial arts laboratory courses. Admission to teacher education. Students completing this course may not elect for credit Industrial Arts 340.

352. Machine Metal Work I. Fall and Winter. (4 q. hrs.)

Theory and operation of the lathe, milling machine, shaper, surface and pedestal grinders, and drill press. The study of tapers, threads, abrasives, and layout procedures. Two class discussions and six periods of laboratory per week.

Prerequisite: Industrial Arts 140.

354. Machine Metal Work II. Winter and Spring. (4 q. hrs.)

Advanced techniques of lathe, milling machine, shaper, and grinder operation. The study of precision measurement, metal-lurgy, heat-treatment, and gearing. Two class discussions and six periods of laboratory work per week.

Prerequisite: Industrial Arts 352.

356. Machine Metal Work III. Spring. (4 q. hrs.)

Machining of castings, study of foundry practices, tool and cutter grinding, gear cutting, heat-treatment. One class discussion and seven periods of laboratory work per week.

Prerequisite: Industrial Arts 354.

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

Laboratory experiences in automatic press work, bindery processes, production cost methods, silk-screen printing, advanced layout and copyfitting, color printing, special printing processes. Two class discussions and six period of laboratory work per week.

Prerequisite: Industrial Arts 260.

361. Linotype Operation and Maintenance. Fall. (4 q. hrs.)

Laboratory experiences in the care, adjustment, repair and operation of the Linotype. Two periods of class work and six periods of the laboratory work per week.

Prerequisite: Industrial Arts 260.

375. Woodturning. Spring. (2 q. hrs.)

Operation and care of wood lathes; the use of lathe tools for spindle and face place turning. One class discussion and three periods of laboratory work each week.

Prerequisite: Industrial Arts 336.

380 (350). Housing I. Fall and Winter. (4 q. hrs.)

Neighborhood planning as it affects residential districts, cost factors in house construction, architectural services, architectural styles, interior planning, and mechanical considerations. A house is planned and presentation drawings are prepared.

382 (355). Housing II. Winter and Spring. (4 q. hrs.)

A continuation of Industrial Arts 380. Principles of house construction, details of construction, working drawings, and F.H.A. specifications. Two class discussions and six hours of laboratory work each week.

Prerequisite: Industrial Arts 380.

420. Welding Technology. Fall and Winter. (4 q. hrs.)

The technology of welding processes and materials; the development of basic skills in the use of electric arc and oxy-acetylene equipment.

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

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

Prerequisite: Industrial Arts 336.

447. Technical Investigations in Industrial Arts.

On demand. (4 q. hrs.)

Technical investigation involving laboratory work and a written report of findings. Area of study must be approved by instructor before registration for course.

Prerequisite: Industrial Arts major of senior standing. Student pays for needed materials not available from department supplies.

Courses open to Juniors, Seniors, and Graduate Students**451. Organization of Subject Matter.** Offered on demand.
(4 q. hrs.)

A continuation of Industrial Arts 340 involving advanced work in the preparation of instructional material with a view of providing for individual needs and progress. Graduate student must write a course paper.

Prerequisite: Industrial Arts 340.

452. Recreational Crafts. Winter. (4 q. hrs.)

A study in depth of contemporary crafts involving technical information and laboratory experiences. Students taking this course for graduate credit will conduct a substantial investigation. Two lectures and six laboratory periods per week.

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. Spring. (4 q. hrs.)

Offered as a cultural course in the graduate program. Develops an appreciation of the importance of graphic arts through

discussion, laboratory experiences, field trips and appropriate audio-visual methods.

May be offered toward the Group III requirement for the degree, M.S. in Education.

560. Achievement Evaluation in Industrial Arts.

Winter. (4 q. hrs.)

Kinds and types of evaluating instruments; principles of test construction; and construction of several tests. The evaluation of laboratory work is considered.

561. Course Making in Industrial Arts. Fall. (4 q. hrs.)

The horizontal and vertical approach is used. The student is required to construct at least one complete course outline and evaluate it against accepted criteria.

565. Philosophy of Practical Arts Education.

Spring. (4 q. hrs.)

Sociological principles, theories, and beliefs which have contributed to present educational practices; relationships of practical arts education, vocational education, and general education; philosophical considerations underlying current vocational education programs.

570. Design and Construction in Industrial Arts.

Winter. (4 q. hrs.)

Designing of projects to meet objectives of work, ability levels of students and typical equipment found in laboratories. Three class and two periods of laboratory work.

Prerequisite: Industrial Arts major including a background in principles of design. Open only to graduates.

575. Professional Research in Industrial Arts.

On demand. (4 q. hrs.)

Designed for development of instructional aids, devices or problems for teaching industrial education. The plan for research to be undertaken must be approved by instructor and head of the department. Conference method.

580. Planning of Industrial Arts Laboratory.

(Omitted 1965-66.) (4 q. hrs.)

A study of the physical facilities and equipment needs for teaching industrial arts, an opportunity is provided for planning new laboratories or redesigning these now in use. Two class discussion and four periods of laboratory work each week.

595. Thesis. (4 q. hrs.)

JOURNALISM

(Taught in the Department of English)

Undergraduate Courses

210. History of Journalism. Spring. (4 q. hrs.)

Study of the historical development of the newspaper, particularly in America, based mainly on Mott's *American Journalism*, with attention to the mechanics, the craft, and the ethics of journalism.

211, 212. Reporting. Fall and Winter. (4 q. hrs.) for each course.)

Principles of gathering and writing news, with practice in the classroom and, as soon as practicable, on the *Eastern News*. Attention is given to identification of elements of the news, basic news story form and variations, and techniques of reporting.

310, 311. Advanced Reporting and News Editing.

Fall and Winter. (4 q. hrs. for each course.)

Editing the news, with attention to headwriting and newspaper makeup and design. Advanced types of news investigation and treatment. Writing of editorials and preparation of editorial judgments.

Prerequisite: Journalism 210, 211, 212.

312. Feature Writing and Magazine Articles. Spring. (4 q. hrs.)

Writing newspaper features and magazine articles. Attention is given to the study of markets for factual articles, selection of subjects, investigation of subjects, organization of story, writing of articles and preparation of manuscripts.

Courses open to Juniors, Seniors, and Graduate Students

460. Supervision of High School Publications.

(Omitted 1965-66.) (4 q. hrs.)

A course designed especially for advisers to high school publications. Topics include staff recruitment, staff relationships, copy preparation, production problems, and editorial judgments for the yearbook and newspaper.

No credit toward a minor in journalism.

LATIN

(See Foreign Languages)

LIBRARY SCIENCE

The Library Science department offers a sequence of courses basic to the training of librarians. A minor consists of twenty-four quarter hours, including 330 or 332. The addition of Education 487 and 488 will be necessary for certification as an Instructional Materials Coordinator. Students intending to minor in these fields should work out their programs with the instructors.

Undergraduate Courses**320. The School Library Materials Center. Fall. (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. Reading for Children. Winter. (4 q. hrs.)

Types of resources best suited to children of grades 1 through 6. Includes reading and evaluation of materials both past and present; the study of children's needs and interests; their reading habits and abilities.

332. Materials for Young People. Fall. (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 (350). Organization of Library Materials. 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 Scheme.

Prerequisite: Library Science 320.

450 (325). Reference Materials and Services.

Winter. (4 q. hrs.)

Introduction to general and specialized sources of information: their content, evaluation, and use. Includes preparation and use of bibliographies; the study of indexes, dictionaries, encyclopedias, and other reference tools.

Prerequisite: Library Science 320, or consent of instructor.

460 (324). Selection of Library Materials. Spring. (4 q. hrs.)

Sources of and criteria for selection of all types of library materials; bibliographical tools, reviewing and evaluating media; publishers and jobbers; purchasing procedures; and other problems related to selection.

Prerequisite: Library Science 320.

490 (441). Observation and Practice.

Fall, Winter, Spring. (4 q. hrs.)

Designed to provide practical experience in library work with special emphasis on service to the public. Eight periods per week under professional supervision comparable to student teaching. Part of this experience may be in the audio-visual field.

Prerequisite: At least four Library Science courses including 320, 430, and 450, or consent of instructor.

MATHEMATICS

Notes. In planning student programs it is important to check the course prerequisites as listed with the course descriptions below. "College preparatory mathematics," as used here, includes high school courses in algebra, geometry, and trigonometry and modern courses which integrate these subjects; it does not include "general mathematics," "consumer mathematics," "shop mathematics," etc.

A limited amount of programmed materials and tutoring service is available in the mathematics office for students who may wish to review high school mathematics before enrolling in Mathematics 130.

Students with a weak background in mathematics may satisfy the general requirement in mathematics by taking Mathematics 125 if 4 quarter hours are required, Mathematics 125 and 126 if 8 quarter hours are required. Students with a background of two and one-half or more units of college preparatory mathematics in high school should take courses numbered 130 or higher to satisfy general requirements.

Students with a background of three or more units of college preparatory mathematics including trigonometry should take the mathematics department placement test before enrolling in Mathematics 130.

Undergraduate Courses

122, 123. Number Systems and Informal Geometry.

Fall, Winter, Spring; Winter, Spring. (3 q. hrs. for each course.)

Concepts of number and geometry developed using physical

objects, sets of objects, and pictures. The growth of the number concept. Natural numbers, integers, rational numbers, real numbers.

Prerequisite: Enrollment in the curriculum for elementary teachers. Simultaneous registration in Education 120 is expected. Mathematics 122 is prerequisite to Mathematics 123.

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

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

126. Elementary Mathematics. Winter. (4 q. hrs.)

Topics in elementary algebra and geometry including right triangle trigonometry and elementary statistics.

Prerequisite: Mathematics 125.

130. Algebra and Trigonometry.

Every quarter. (4 q. hrs.)

Trigonometric functions; application to triangles; real numbers; sets; functions; equations; determinants and systems of linear equations.

Prerequisite: Two years of college preparatory mathematics.

131. Algebra and Trigonometry.

Every quarter. (4 q. hrs.)

Mathematical induction; binomial theorem, exponents and logarithms; trigonometric identities and equations; complex numbers; theory of equations.

Prerequisite: Mathematics 130, or three years of college preparatory mathematics including trigonometry and satisfactory placement test score.

134. Analytic Geometry. Every quarter. (4 q. hrs.)

Coordinate systems, straight lines, conic sections, polar and parametric forms; curve sketching techniques.

Prerequisite: Mathematics 131, or four years of college preparatory mathematics including trigonometry and satisfactory test score.

225. An Introduction to College Mathematics.

Spring. (4 q. hrs.)

Numeral systems; the natural number system; the computation algorithms; the growth of the number concept; rules of inference; sets, relations, functions; an introduction to groups and fields.

227. School Geometry. Fall and Winter. (4 q. hrs.)

The foundations of geometry. Elementary concepts of geometry from a modern point of view.

Prerequisite: Two years of college preparatory mathematics.

228. College Geometry. Every quarter. (4 q. hrs.)

Advanced Euclidean plane geometry; elementary transformations; homothetic figures; harmonic ranges; cross ratio; inversions; poles and polars; complete quadrilaterals and quadrangles.

Prerequisite: Mathematics 134.

231. Electronic Computer Programming.

Every quarter. (4 q. hrs.)

Digital computer programming. Laboratory practice on the IBM 1620 using basic machine language, SPS, FORTRAN, and GOTRAN.

Not open to freshmen.

232. Introduction to Computer Programming.

Every quarter. (1 q. hr.)

Computer programming in basic machine language and in FORTRAN.

235. Calculus. Every quarter. (4 q. hrs.)

Limits and continuity; the derivative concept; differentiation techniques through transcendental functions; Law of the Mean; applications.

Prerequisite: Mathematics 134.

236. Calculus. Every quarter. (4 q. hrs.)

Differentials; the integral concept; integration techniques; applications.

Prerequisite: Mathematics 235.

320. Mathematics in Grades K-3. Every quarter. (2 q. hrs.)

Methods and materials for teaching mathematics in grades K-3. Credit for this course does *not* count toward graduation except in the curriculum for the preparation of prospective elementary school teachers.

Prerequisite: Mathematics 122, 123.

321. Mathematics in Grades 4-6. Every quarter. (2 q. hrs.)

Methods and materials for teaching mathematics in grades 4-6. Credit for this course does *not* count toward graduation ex-

cept in the curriculum for the preparation of prospective elementary school teachers.

Prerequisite: Mathematics 122, 123.

340. Teaching Mathematics. Every quarter. (4 q. hrs.)

Methods and materials for teaching mathematics (and physical science) in grades 7-12. Students with a minor in chemistry or physics may elect to include a survey of physical science methods and materials as a part of the course.

Prerequisite: Mathematics 235. Admission to teacher education.

343. Algebra. Fall, Winter. (4 q. hrs.)

Sets and relations; rings; integral domains; fields; polynomials; groups.

Prerequisite: Mathematics 235.

344. Linear Algebra. Winter, Spring. (4 q. hrs.)

The algebra of vectors and matrices; application to systems of linear equations, linear transformations, transformation of coordinate axes.

Prerequisite: Mathematics 343 or consent of the instructor.

345. Calculus. Every quarter. (4 q. hrs.)

Integration techniques, infinite series, partial differentiation, multiple integration, with applications.

Prerequisite: Mathematics 236.

350. Differential Equations. Fall, Winter. (4 q. hrs.)

Formal solutions of ordinary differential equations; a critical analysis of some elementary types; envelopes, trajectories, singular solutions, applications.

Prerequisite: Mathematics 345.

351. Differential Equations. Spring. (4 q. hrs.)

Development of the theory and techniques associated with the linear differential equation; applications; existence theorems; systems of linear differential equations; methods of approximation.

Prerequisite: Mathematics 350.

391. Problems in the Teaching of Arithmetic.

Offered on demand in extension. (4 q. hrs.)

Assigned readings, group discussions, and individual or group projects and reports.

Not open to mathematics majors.

392. Some New Units in Mathematics for the Upper Grades.

Offered on demand in extension. (4 q. hrs.)

A course based on units prepared by the School Mathematics Study Group for grades seven and eight.

Not open to mathematics majors.

393. Number and Operation.

Offered on demand in extension. (2 q. hrs.)

A study of the basic concepts of arithmetic from a modern point of view.

Not open to mathematics majors.

Courses open to Juniors, Seniors, and Graduate Students**460, 461. Advanced Calculus.**

Winter, Spring. (4 q. hrs. for each course.)

Vectors and vector functions; the calculus of functions of several variables; line and surface integrals; Green's Theorem, and Stokes' Theorem.

Prerequisite: Mathematics 345.

470, 471. Statistics. Fall, Winter, Spring; Winter, Spring.

(4 q. hrs. for each course.)

Probability; statistical methods; empirical and theoretical frequency distributions; elementary sampling theory; correlation and regression; general principles for testing hypotheses and for estimation; statistical design in experiments.

Prerequisite: Mathematics 236.

480. Mathematics of Finance. Summer 1965. (4 q. hrs.)

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

Prerequisite: Mathematics 131.

490. History of Mathematics. (Omitted 1965-66.) (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.

Graduate Courses

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

507. Digital Computer Techniques. Summer 1965. (4 q. hrs.)

Programming techniques using machine language, symbolic and automatic programming languages.

Prerequisite: Mathematics 345 or permission of the instructor. Primarily for graduates. Open to qualified seniors with permission of the instructor and the Dean of the Graduate School.

510, 511. Modern Algebra. Fall, Winter. (4 q. hrs. for each course.)

Postulational development of number systems; selected topics from the theories of groups, rings fields, vector spaces and matrices.

Prerequisite: Mathematics 344.

520, 521. Higher Geometry. Fall, Winter. (4 q. hrs. for each course.)

A selection of topics from projective geometry, differential geometry, non-Euclidean geometries, and topology.

Prerequisite: Mathematics 344 or permission of the instructor.

530, 531. Analysis. Fall, Winter. (4 q. hrs. for each course.)

A selection of topics from modern theories of the real number, functions, point sets, transfinite cardinals and ordinals, and Fourier series.

Prerequisite: Mathematics 345.

540. The Teaching of Arithmetic in the Primary and Intermediate Grades. Summer 1966. (4 q. hrs.)

The techniques, methods, and materials used in teaching the concepts and skills of arithmetic in grades one through six.

541. The Teaching of Mathematics in Grades 7, 8, and 9. Summer 1965. (4 q. hrs.)

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

550. Mathematics in Modern Education and Life.

Summer 1965. (4 q. hrs.)

The subject matter of elementary mathematics, its role in the development of civilization, and its role in the public school curriculum.

May be offered toward the Group III requirement for the degree M.S. in Ed.

570. Problems in the Teaching of Mathematics.

Summer 1966. (4 q. hrs.)

Recent curriculum advancements; study of topics selected from those proposed for study in secondary schools; effective teaching methods; assigned readings; reports.

595. Thesis. (4 q. hrs.)

MUSIC

Undergraduate Courses

120. Basic Music for Classroom Teachers.

Every quarter. (4 q. hrs.)

A study of basic music theory through aural analysis and musical notation. Emphasis is placed on ear training, singing by ear and from notation, rhythmic responsiveness and keyboard harmony.

For Elementary and Junior High majors.

123, 124, 125. Music Theory.

Fall, Winter, and Spring. (2 q. hrs. for each course.)

The study of scales, modes, intervals, basic harmony, rhythm, basic forms and key relationships. Aural understanding developed through dictation and sight singing.

Must be taken in sequence.

126, 127, 128. Class Instruction in Piano.

Fall, Winter, and Spring. (1 q. hr. for each course.)

A beginning course for students without previous piano study. Methods of class instruction are a significant phase of the course. This year's work substitutes for first year piano in applied music.

133, 134, 135. The First Year's Work in Applied Music. Piano, Voice, Strings, Woodwinds, Organ, or Brasses.

Every quarter. (1 q. hr. for each course.)

136, 137, 138. Class Instruction in Voice.

Fall, Winter, and Spring. (1 q. hr. for each course.)

Beginning vocal instruction for all not assigned to studio instruction. Emphasis is placed upon the attainment of good vocal habits and the ability to sing musically.

146, 147, 148. Class Instruction in Strings. Fall, Winter, Spring.
(2 q. hrs. for each course.)**200 (236). 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 (338). Class Instruction in Flute, Oboe, and Bassoon.
Fall, Winter, and Spring. (2 q. hrs.)

A study of beginning instrumental technique, including methods of teaching.

204 (237). 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 (337). Class Instruction in Trombone, Baritone, Tuba and Drums. Fall, Winter, and Spring. (2 q. hrs.)

A study of beginning instrumental technique, including methods of teaching.

210, 211, 212. Band. (1 q. hr.)**221, 222. Fundamentals of Music.** 221—Fall. 222—Winter.
(4 q. hrs. each course.)

These courses are a continuation of Music 120. Emphasis is placed on basic music theory and those fundamental musical skills and understandings needed to develop the degree of competency necessary to teach general music in the elementary classroom.

Prerequisite: Music 120. Required of elementary majors with an Area I or II Concentration in Music. Must be taken in sequence.

225. Music Literature for Elementary Teachers. Spring.
(4 q. hrs.)

This course is designed to develop skills in listening to and understanding major forms and styles of Western Music which are

especially suitable for use in the elementary general music program.

Prerequisite: Music 120 or equivalent. Required of elementary majors with an Area I or II Concentration in Music.

229. Introduction to Music Literature. Every quarter. (4 q. hrs.)

A study is made of various types and forms of music as a means of increasing the student's awareness and understanding in listening to music. Representative selections from the great masterpieces of music are made familiar through listening and analysis.

230, 231, 232. Harmony. Fall, Winter, and Spring. (4 q. hrs. for each course.)

A study of the construction and manipulation of the materials of music composition, including harmonic and contrapuntal procedures and development of aural skills.

Prerequisite: Music 125. Must be taken in sequence.

233, 234, 235. The Second Year's Work in Applied Music.
Every quarter. (1 q. hr. for each course.)

243, 244, 245. Vocal Diction. Fall, Winter, Spring.
(1 q. hr. each quarter.)

A course designed primarily for voice majors (vocal performance emphasis); concerned with problems of pronunciation, meaning, dictionary use, and communication in the singing of English, Italian, German, and French.

Prerequisite: Applied voice 133, 134, 135, or equivalent.

256, 257, 258. Ensemble: Chorus, Cecilian Singers, Men's Glee Club, and Orchestra.

(1 q. hr. for combination of two organizations in given quarter.)

310, 311, 312. Band. (1 q. hr.)

320. History and Literature of Music. Fall. (4 q. hrs.)

The development of music from the ancient times through the Baroque (1750).

Not open to music majors or minors.

321. History and Literature of Music. Winter. (4 q. hrs.)

Music from the Classical through the Romantic Period (1750-1875).

Not open to music majors or minors.

322. History and Literature of Music. Spring. (4 q. hrs.)

Music from the Late Romantic Period to the present.

Not open to music majors or minors.

328 (228). Music in Elementary Schools.

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

A study of the objectives, methods, and materials of music education in the elementary grades.

Prerequisite: Music 120. For Elementary Education Majors.

333, 334, 335. The Third Year's Work in Applied Music.

Every quarter. (1 q. hr. for each course.)

339. Methods of Teaching Vocal Music in Elementary Schools. Spring. (4 q. hrs.)

A study of the objectives, methods, and materials of music education in the elementary grades.

Prerequisite: Admission to teacher education.

340. Methods of Teaching Music in Secondary Schools.

Winter. (4 q. hrs.)

This course deals with the music instruction program in both junior and senior high schools. Its primary focus is on the general music class plus other specialized classes not having performance as their primary concern.

Prerequisite: Admission to teacher education.

342. Opera Workshop. Fall and Winter. (2 q. hrs.)

The study and performance of opera roles and selected opera scenes. Class participation will involve all aspects of staging, acting and singing. May be taken only with the permission of the instructor.

347. Orchestration. Fall. (4 q. hrs.)

Practical experience in scoring the string and wind instruments for public school music groups. Standard scores serve as a guide **for study.**

351. History and Literature of Music. Fall. (4 q. hrs.)

Development of music from ancient times to Bach.

Open only to music majors and minors.

352. History and Literature of Music. Winter. (4 q. hrs.)

Development of music from Bach through Beethoven.

Open only to music majors and minors.

353. History and Literature of Music. Spring. (4 q. hrs.)

Development of music from Schubert to present day.

Open only to music majors and minors.

356, 357, 358. Ensemble: Chorus, Orchestra, Cecilian Singers, and Men's Glee Club. (1 q. hr. for any combination of two organizations in a given quarter.)**410, 411, 412. Band.** (1 q. hr.)**433, 434, 435. The Fourth Year's Work in Applied Music.**

Every quarter. (1 q. hr. for each course.)

442. Opera Workshop. Spring. (2 q. hrs.)

The study and performance of opera roles and selected opera scenes. Class participation will involve all aspects of staging, acting and singing. May be taken only with the permission of the instructor.

Prerequisite: Music 342.

449. Choral Conducting and Materials. Fall. (2 q. hrs.)

A study of conducting techniques, organizations, score reading and interpretation essential to working effectively with vocal ensembles. The class also serves as laboratory chorus.

Courses open to Juniors, Seniors, and Graduate Students**450. Instrumental Conducting and Materials.** Winter. (4 q. hrs.)

A study of baton technique, score reading and rehearsal routine. Materials for use in the public school music program are studied and appropriate literature for chamber groups, orchestra and band are included.

Prerequisite: Music 449.

451. Music Supervision. Spring. (2 q. hrs.)

This course deals with administrative practices as they pertain to the public school music teacher. Curriculum development, lines of responsibility, administrative functions, budgets, scheduling and other related problems are studied.

452. Psychology of Music. (Omitted 1965-66.) (4 q. hrs.)

Analysis of musical talent; testing and guidance programs; analysis of factors in musical performance and the application of elements in the psychology of music in a teaching situation.

453. Analysis and Form in Music. Winter. (4 q. hrs.)

A study of forms and the various usages of musical elements to create music; a technical analysis of music providing a rational basis for musical interpretation.

454. Advanced Orchestration. Spring. (4 q. hrs.)

A study of instruments of the orchestra and their usage in orchestral writing. The course serves as an aid to the interpretation of music and builds a knowledge of the basic techniques in writing for instruments.

455. Instrumentation. Spring. (4 q. hrs.)

This is a course in arranging materials for instrumental ensembles of the public school. Group needs are analyzed and projects are prepared and performed by special ensembles.

456, 457, 458. Ensemble: Chorus, Orchestra, Cecilian Singers, Men's Glee Club. (1 q. hr. for any combination of two organizations in a given quarter.)**459. Vocal Ensemble.** Every quarter. (1 q. hr.)

A course designed to study works suitable for small choral ensemble performance. A survey of such pieces from the various periods (15th Century to the present) is an important concern in this class.

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.

462. Piano Pedagogy. Spring. (4 q. hrs.)

A study of the problems of teaching piano both for the individual and in class lessons. An understanding of the piano mechanism, history of piano techniques, sight reading, memorization, etc. are included. A survey of piano teaching materials is made.

Prerequisite: Two years of applied piano.

463 (458). Chamber Music of the Instrumental Groups.

Every quarter. (1 q. hr.)

A study is made of literature for instrumental ensembles of standard groupings. Works for teaching and performance purposes serve as materials for the course.

Graduate Courses

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

500, 501, 502, 503. Individual Instruction in Literature.

Every quarter. (1 q. hr.)

Voice, piano, organ, band and orchestral instruments; a practical course in performance and interpretation of representative compositions.

504, 505, 506, 507. Individual Instruction.

Every quarter. (2 q. hrs.)

Advanced study in piano, organ, voice, band, and orchestra instruments. Designed to increase personal performance as well as to develop a repertoire.

510. Counterpoint. Fall. (4 q. hrs.)

A basic study of music techniques in polyphonic music. Sixteenth century counterpoint is treated and the style includes that of Palestrina and the English madrigal.

Prerequisite: Music 232.

511. Advanced Counterpoint. Winter. (4 q. hrs.)

Eighteenth century counterpoint in strict and free styles. A study is made of canon and fugue.

Prerequisite: Music 510.

512. Composition in Small Forms. Winter. (4 q. hrs.)

Materials are geared to traditional forms, and include styles which may be useful in public school music teaching.

Prerequisite: Music 453.

513. Band Literature for the Public Schools.

(Omitted 1965-66.) (2 q. hrs.)

The literature of the high school band is included as well as training materials for beginning groups. Materials are analyzed and surveyed in view of needs and interests. Training as well as cultural materials are included.

514. Materials of the Orchestra.

(Omitted 1965-66.) (2 q. hrs.)

Materials of the high school and elementary school orchestra and the more mature groups are treated. Literature is studied with view of training values as well as for performance.

515. Materials of Vocal Groups. (2 q. hrs.)

This course provides the choral director with a survey of materials appropriate for choirs, choruses and glee clubs. Selected scores are studied and analyzed.

516. Advanced Conducting and Performance Practices.

(Omitted 1965-66.) (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.

517. Analytical Techniques. Fall. (4 q. hrs.)

An investigation of structure, stylistic characteristics and compositional techniques.

Prerequisite: Music 453.

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 resonance. 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 Romanticists, the National schools, and late European and American developments.

534. Song Literature. Winter. (2 q. hrs.)

Prerequisites, diction and elementary grammar in either French or German. Techniques of song study, interpretation, and program building.

536. Opera and Oratorio. Winter. (4 q. hrs.)

A survey of oratorio and opera literature from the beginning to contemporary times. Arias will be sung and recorded music will be studied.

550. Music in History. Fall. (4 q. hrs.)

A study of the development of the art of music from the beginning through the Medieval, Gothic, Renaissance, and Romantic periods to the modern era.

May be offered toward the Group III requirement for the degree M.S. in Ed.

551. Music in Contemporary Culture.

(Omitted 1965-66.) (4 q. hrs.)

A study is made of the music of the radio, moving pictures, stage, and the concert hall. Contemporary personalities, organizations, and centers of musical activity are surveyed.

May be offered toward the Group III requirement for the degree M.S. in Ed.

553. Music in Western Civilization.

(Omitted 1965-66.) (4 q. hrs.)

A study of the place of music in the evolution of civilization.

555. Teaching Technique of Strings. (2 q. hrs.)

An advanced course in the teaching of string instruments. It is designed to give the teacher of music a course which will strengthen his knowledge of methods, techniques, and training literature for public school teaching.

556. Teaching Techniques in Woodwinds. Fall and Winter.

(2 q. hrs.)

An advanced course in woodwind instruments. It is designed to give the teacher of music advanced techniques in teaching materials and methods of the woodwind instruments.

557. Teaching Techniques in Brass and Percussion. Fall and Winter. (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. Fall. (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.

Winter. (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.

565. Community Music. (Omitted 1965-66.) (2 q. hrs.)

Music appropriate for community gatherings; the community sing, camp-fire singing, and the church choir.

570. Survey of Music Literature. (Omitted 1965-66.) (4 q. hrs.)

Music of the various periods of historical development is heard through recordings and through the performance of members of the staff and qualified students of music. Attention is focused on music that is heard at current concert programs.

578. Performance in Music. Winter and Spring. (4 q. hrs.)

Areas of special interest in preparation for the performance major.

580. Seminar in the Problems of Music Education.

(Omitted 1965-66.) (4 q. hrs.)

The consideration of special problems in music education is planned on an individual basis. Students present individual problems and work on projects under the guidance of members of the music staff.

581. Music of the Twentieth Century. Spring. (4 q. hrs.)

The chief musical developments in Western Europe and the Americas from 1890 to the present.

595. Thesis. (4 q. hrs.)

APPLIED MUSIC

In the major applied field, at least two years of study prior to college entrance are required. Private instruction is offered in strings: violin, viola, violoncello, and contrabass; brasses: cornet, trumpet, French horn, trombone, baritone, and bass horn; woodwinds: flute, clarinet, oboe, saxophone, and bassoon; percussion; voice; piano; organ. In the case of organ, the student must demonstrate facility on piano before acceptance.

A student majoring or minoring in music for the degree B.S.

in Ed. must select one of the above as his chief performing media. Minimum applied requirements are as follows:

Major	Voice	11 q. hrs.
Minor	Piano	6 q. hrs.
Major	Piano or Organ	11 q. hrs.
Minor	Voice	6 q. hrs.
Major	Band or Orchestra Instrument	11 q. hrs.
Minor	Piano	3 q. hrs.
Minor	Voice	3 q. hrs.
Minor	Instrumental Emphasis	3 q. hrs.
Minor	Vocal Emphasis	3 q. hrs.

Credit in applied music is based upon performance standards and satisfactory progress as determined through individual examination conducted at the close of each quarter: One quarter hour of credit for one-half hour private lesson per week plus daily practice; two quarter hours credit for two half-hour private lessons per week plus daily practice.

Credit Organizations in Music

The following are credit organizations open to all University students: Band, Chorus, Orchestra, Cecilian Singers, and Men's Glee Club. Credit is accumulated each quarter at the rate of $\frac{1}{2}$ q. hr. for each organization, except band, which is one quarter hour credit per quarter. No more than two quarter hours of credit may be earned in a single quarter regardless of the number of organizations in which a student participates.

Minimum requirements for music majors for the degree B.S. in Ed. are:

Instrumental Emphasis—6 q. hrs. credit in instrumental organizations.

Choral Emphasis—6 q. hrs. credit in choral organizations.

Minimum requirements for music minors:

Instrumental Emphasis—3 q. hrs. credit in instrumental organizations.

Choral Emphasis—3 q. hrs. credit in choral organizations.

A maximum of nine quarter hours is allowable towards graduation requirements.

CHORUS

The chorus presents a Christmas program and other productions each year in the way of standard oratorio or opera. Sacred and secular literature is presented on various occasions. Rehearsals are held twice weekly.

SYMPHONIC BAND

A marching unit during the football season and a concert organization throughout the year, giving concerts for student body and the public. Some instruments are furnished to members by the University.

ORCHESTRA

The orchestra appears in public concert each year. In addition the orchestra joins the chorus in presenting major productions in opera, oratorio, and other musical occasions. Many instruments are furnished in order to supply a complete instrumentation.

CECILIAN SINGERS

A women's glee club open to all women students who enjoy singing. This group presents programs several times throughout the year.

MEN'S GLEE CLUB

A men's chorus open to all men students who enjoy singing. Programs are presented at various occasions throughout the year.

Non-Credit Musical Organizations

VOCAL CHAMBER GROUP ENSEMBLES

Duets, trios, quartets and mixed groups are organized to enrich the experience of students in this type of singing. These groups appear at various times for public performance.

CHAMBER GROUPS IN INSTRUMENTAL MUSIC

Chambers groups of woodwinds, brasses and strings are organized to enrich the experience of players in the standard literature. These groups appear publicly and are regularly in rehearsal.

RECITALS

Each student graduating with a major in music is required to present appropriate junior and senior recitals demonstrating his musical growth and artistry. All students are required to appear (each year) in the series of student recitals in order to gain experience in musical performance.

PHILOSOPHY

It is an aim of the study of philosophy to develop a perspective and a clearer understanding of the nature and relation of Man, God, the World, and Value. The courses described below explore these areas of concern through examination of primary source materials, lectures, and class discussions.

Course Sequences

Philosophy 300 (Introduction) provides a problems approach to techniques and issues of philosophy. It is recommended as the best choice for students who elect a single course. It establishes a background for further work in philosophy.

Philosophy 301 (History of Philosophy: Ancient) utilizes an historical rather than a problems approach to philosophic inquiry. This course can supplement Philosophy 300 or can serve as an introduction. If a student anticipates the election of more than one of the history courses, it would be advisable to take them in the order of their historical sequence.

For students who may elect Philosophy as their option to satisfy the Humanities requirement, at least two approaches are feasible (depending on the student's interest): Philosophy 300 and/or 301 plus additional work in History of Philosophy or a selection of advanced courses.

Undergraduate Courses**300. Introduction to Philosophy.**

Fall, Winter, Spring. (4 q. hrs.)

The nature and methods of philosophy presented through analysis of selected representative philosophical issues. Knowledge and Truth, the Individual and the State, the Right and the Good, the Interpretation of Religion, God and Nature, and Alternative World Views.

301. History of Philosophy: Ancient. Fall. (4 q. hrs.)

An historical approach to questions pertaining to Man, God, the World, and Values in which the ideas of philosophers from the Pre-Socratics through Aristotle are examined.

305. History of Philosophy: Medieval. Winter. (4 q. hrs.)

An examination of the ideas of the principal philosophers from Epicurus through St. Thomas Aquinas. The foundations of Christianity and implications for philosophy and theology.

Prerequisite: Philosophy 300 or 301.

306. History of Philosophy: Modern. Spring. (4 q. hrs.)

An examination of philosophical inquiry from Galileo through Kant: The quest for certainty. The foundations of modern science and implications for religion, morals, and political theory.

Prerequisite: Philosophy 300 or 301.

400. Logic. Fall, Winter, and Spring. (4 q. hrs.)

An analysis of the principles of valid reasoning with emphasis on the application of these principles to the effective communication of ideas; deductive logic; empirical scientific method.

402. Ethics. Winter and Spring. (4 q. hrs.)

A systematic study of the principal types of ethical theory. A consideration of major issues in ethics: the Right and the Good, the nature and validity of moral standards, the problem of conduct, and free will.

Prerequisite: At least one course in Philosophy.

404. Aesthetics. Fall. (4 q. hrs.)

An analysis of the meaning and value of beauty in terms of an examination of the types, elements, and structure of aesthetic experience; a consideration of significant interpretations of beauty in art; and a critical study of aesthetic criteria.

Prerequisite: At least one course in Philosophy.

Graduate Courses

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

550. Philosophic Inquiry: An Adventure of Ideas. Summer. (4 q. hrs.)

An exploration of man's thinking about himself, God, the World and Values presented through an analysis of selected philosophers or schools of philosophy. This course is designed for the student with little or no previous training in philosophy.

May be offered toward the Group III requirement for the degree M.S. in Ed.

PHYSICAL EDUCATION FOR MEN

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 require-

ment 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 a regular gymnasium suit. This suit consists of a regulation gray jersey and blue running pants. Students with a major in physical education are required to have a regulation blue jersey and blue running pants. All students must have rubber-soled gymnasium shoes. Sweat shirt and pants are recommended as additional equipment. The student is required to keep these clean and in good condition.

For a statement of fees for towel and lock, see page 78.

Service Courses

Service courses in physical education are numbered to indicate the level of the work. Courses in the 100 series are intended for beginners; majors and minors in physical education should register for those service physical education courses which will serve as prerequisites for the professional "Technique of Teaching" courses. Veterans who are majors or minors in physical education are not exempted from service physical education or Health Education 120 if these courses are prerequisite to other professional courses, unless evidence is presented that the specific content of these courses has been covered in military service.

002. Baseball. (Varsity). Spring. (1 q. hr.)

003. Basketball (Varsity). Winter. (1 q. hr.)

005. Soccer (Varsity). Fall. (1 q. hr.)

009. Football (Varsity). Fall. (1 q. hr.)

012. Golf (Varsity). Spring. (1 q. hr.)

013. Gymnastics (Varsity). Winter and Spring. (1 q. hr.)

014. Tennis (Varsity). Spring. (1 q. hr.)

015. Wrestling (Varsity). Winter. (1 q. hr.)

016. Track (Varsity). Fall and Spring. (1 q. hr.)

018. Swimming (Varsity). Winter. (1 q. hr.)

100. Basic Physical Education. Fall and Winter. (1 q. hr.)

Activities to improve the general fitness and motor ability as related to individual needs.

101. Prescribed Activities. Every quarter. (1 q. hr.)

Corrective exercise and adapted activities for students whose physical condition will not permit participation in the regular activity program.

103. Basketball (Beginning). (Omitted 1965-66.) (1 q. hr.)

104. Recreational Team Games. (Omitted 1965-66.) (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). Fall and Spring. (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.)
118. **Swimming** (Beginning). Every quarter. (1 q. hr.)
For beginning swimmers only. Persons able to swim the width of a 35-foot pool should enroll in P.E.M. 318.
119. **Bowling** (Beginning). Winter and Spring. (1 q. hr.)
Open to both men and women.
190. **Folk and Square Dancing**. Every quarter. (1 q. hr.)
See Physical Education (Women).
191. **Modern Dance** (Beginning). Every quarter. (1 q. hr.)
See Physical Education (Women).
192. **Social Dance**. Every quarter. (1 q. hr.)
See Physical Education (Women).
291. **Modern Dance** (Intermediate). Winter and Spring. (1 q. hr.)
See Physical Education (Women).
318. **Swimming** (Advanced). Every quarter. (1 q. hr.)
391. **Modern Dance** (Composition). Spring. (1 q. hr.)
See Physical Education (Women).

Professional Courses

Undergraduate Courses

120. **Basic Activities for Elementary and Secondary Schools**.
Every quarter. (4 q. hrs.)
Games and activities for the elementary and secondary level including body mechanics; basic exercises; rhythms.
121. **Elementary Tumbling, Stunts, and Pyramids**.
Winter and Spring. (4 q. hrs.)
Basic tumbling skills; vaulting; trampoline.

131. First Aid and Safety Education.

See Physical Education (Women).

132. Leadership in Recreation.

See Physical Education (Women).

150. Introduction to Physical Education.

Every quarter. (4 q. hrs.)

General scope, purpose, history, growth and development of physical education.

203. Technique of Teaching Basketball. (Omitted 1965-66.)
(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 1965-66.) (2 q. hrs.)

Prerequisite: Physical Education 104 or evidence of a level of competence in the specific skill necessary for teaching.

205. Technique of Teaching Soccer. Fall. (2 q. hrs.)

Prerequisite: Physical Education 105 or evidence of a level of competence in the specific skill necessary for teaching.

206. Techniques of Teaching Softball. Spring. (2 q. hrs.)

Prerequisite: Physical Education 106 or evidence of a level of competence in the specific skill necessary for teaching.

207. Technique of Teaching Touch Football. Fall. (2 q. hrs.)

Prerequisite: Physical Education 107 or evidence of a level of competence in the specific skill necessary for teaching.

208. Technique of Teaching Volleyball.

Every quarter. (2 q. hrs.)

Prerequisite: Physical Education 108 or evidence of a level of competence in the specific skill necessary for teaching.

210. Technique of Teaching Archery.

Fall and Spring. (2 q. hrs.)

Prerequisite: Physical Education 110 or evidence of a level of competence in the specific skill necessary for teaching.

- 211. Technique of Teaching Badminton.** Every quarter.
(2 q. hrs.)

Prerequisite: Physical Education 111 or evidence of a level of competence in the specific skill necessary for teaching.

- 212. Technique of Teaching Golf.** Fall and Spring. (2 q. hrs.)

Prerequisite: Physical Education 112 or evidence of a level of competence in the specific skill necessary for teaching.

- 213. Technique of Teaching Gymnastics Apparatus.**

Winter and Spring. (2 q. hrs.)

Prerequisite: Physical Education 113 or evidence of a level of competence in the specific skill necessary for teaching.

- 214. Technique of Teaching Tennis.**

Fall and Spring. (2 q. hrs.)

Prerequisite: Physical Education 114 or evidence of a level of competence in the specific skill necessary for teaching.

- 215. Technique of Teaching Wrestling.** Winter. (2 q. hrs.)

Prerequisite: Physical Education 115 or evidence of a level of competence in the specific skill necessary for teaching.

- 217. Technique of Teaching Stunts and Tumbling.**

Winter. (2 q. hrs.)

Prerequisite: Physical Education 117 or evidence of a level of competence in the specific skill necessary for teaching.

- 218. Technique of Teaching Swimming.**

Every quarter. (2 q. hrs.)

Prerequisite: Physical Education 118, or Red Cross Certificate or evidence of a level of competence in the specific skill necessary for teaching.

- 227. Health Education in Elementary, Junior, and Senior High Schools.** Every quarter. (4 q. hrs.)

Organic functions and problems of effective healthful living.

Open to both men and women. Prerequisite: Health Education 120.

- 228. Organization and Administration of Playgrounds.**

Spring. (4 q. hrs.)

Administrative problems associated with the operation of playgrounds; personnel; publicity; financing; legal aspects; programming; operation of seasonal type playgrounds.

Open to both men and women.

235. Theory of Prescribed Exercise.

See Physical Education (Women).

236. Music in Relation to the Dance.

See Physical Education (Women).

244. Kinesiology. Every quarter. (4 q. hrs.)

Laws of physics applied to human motion; joint movements; motion of muscle groups. Analysis of fundamental body movements and the adaptation of gymnastic exercises to posture training and sports activities.

Prerequisite: Zoology 225. Open to men and women.

252. Activity Needs and Interests of the Elementary School Child.

See Physical Education (Women).

340. Organization of Grade Level Activities and Methods of Teaching the Activity in Physical Education.

Winter and Spring. (4 q. hrs.)

Organization of health and physical education activities for various age levels, and methods of teaching health and physical education.

Prerequisite: Four quarter hours of physical education activities at the 200 level; admission to teacher education.

347. Basketball Coaching. Fall and Spring. (4 q. hrs.)

Offensive and defensive styles of play; fundamentals; individual and team play; rules and strategy; conduct of tournament play.

348. Football Coaching. Fall and Spring. (4 q. hrs.)

Fundamentals of football including blocking, tackling, passing, kicking, offensive and defensive line and backfield play; conditioning; strategy.

349. Track and Field Coaching. Fall and Spring. (4 q. hrs.)

Fundamentals of running and starting; the pole vault; shot; discus; high and broad jumps; javelin; hurdles. Organization of track meets. Study of rules and strategy.

350. Baseball Coaching. Fall and Spring. (4 q. hrs.)

Fundamentals of batting; fielding; playing various positions. Rules, strategy; play situations.

351. Camping. Spring. (4 q. hrs.)

Organization and administration of camps including program planning; counselor problems; camp policies.

357. Golf Coaching. (Omitted 1965-66.) (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 1965-66.) (4 q. hrs.)

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

359. Tennis Coaching (Omitted 1965-66.) (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 1965-66.) (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.

454. Football Officiating. (Omitted 1965-66.) (2 q. hrs.)

Study of rules and fundamentals of officiating. Relation of the official to the Illinois High School Athletic Association, coaches, and team members.

455. Basketball Officiating. (Omitted 1965-66.) (2 q. hrs.)

Topics corresponding to those of Physical Education 454, but related to basketball.

Courses open to Juniors, Seniors, and Graduate Students**461. The Prevention and Care of Athletic Injuries.**

Winter. (4 q. hrs.)

Athletic injury statistics; primary causes of injuries; analysis of preventive measures; care of injuries in relation to type of tissue involved; taping, padding, and bracing new and recurrent injuries.

470. Organization and Administration of Intramural Athletics.

Fall. (4 q. hrs.)

The educational philosophy of intramurals; function of administrative personnel; units of participation; scheduling; conduct of intramural programs; records; point systems; and awards.

Open to both men and women.

475. Administration of Interschool Athletics.

Winter. (4 q. hrs.)

Organization and control of interschool athletics at the national, state, and local levels. Staff; programs; budget; health and safety; facilities.

495. Course of Study Development in Physical Education.

Spring. (4 q. hrs.)

Principles and methods; different psychological and educational points of view; organizing a course of study; making units of instruction.

Open to both men and women.

Graduate Courses

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

500. Introduction to Graduate Study in Physical Education.

Fall. (4 q. hrs.)

A critical review of selected studies in the literature of physical education. Evaluation of the literature; study of problems confronting the profession; techniques employed in the historical, philosophical, survey, and experimental methods of research.

Open to both men and women.

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.

May be offered toward the Group III requirement for the degree M. S. in Ed. Open to both men and women.

595. Thesis. (4 q. hrs.)

PHYSICAL EDUCATION FOR WOMEN

During the first two years of residence it is required that all students attend physical education classes regularly two hours each week unless this requirement is modified by the University Physician. Before completing the six terms of required physical education, the student shall have taken:

3 courses in sports (some team and some individual)

2 courses in dance

1 course in fundamentals

It is the responsibility of the student, not her adviser, to see that this requirement is observed, and to select her own courses, and sections of those courses, for its fulfillment. Credit of one quarter hour toward the satisfying of the graduation requirement in physical education is given for each quarter's work successfully passed. No course shall be repeated for credit without permission of the head of the Physical Education Department. Upper-classmen are encouraged to elect courses that interest them.

*Service Courses***098. Courses for Individual Needs.**

Every quarter. (1 q. hr.)

Courses in an adapted form of activity are offered for students with individual problems.

172. Basketball (Beginning). Winter. (1 q. hr.)

173. Field Hockey. Fall. (1 q. hr.)

Required of all majors.

174. Soccer. Fall. (1 q. hr.)

175. Softball (Beginning). Spring. (1 q. hr.)

176. Speedball. Fall and Spring. (1 q. hr.)

Required of all majors.

177. Volleyball (Beginning) Winter and Spring. (1 q. hr.)

180. Archery. Fall and Spring. (1 q. hr.)

Required of all majors.

181. Badminton (Beginning). Every quarter. (1 q. hr.)

Required of all majors.

182. Bowling. Fall, Winter, and Spring. (1 q. hr.)

Required of all majors.

183. Golf (Beginning). Fall, Spring, and Summer. (1 q. hr.)

Required of all majors.

184. Recreational Games. Spring. (1 q. hr.)

Required of all majors.

185. Stunts and Apparatus. Fall, Winter, Spring. (1 q. hr.)

Required of all majors.

186. Swimming (Beginning). Every quarter. (1 q. hr.)

Required of all majors.

187. Tennis (Beginning). Fall and Spring. (1 q. hr.)

Required of all majors.

190. Folk and Square Dance. Every quarter. (1 q. hr.)

Open to both men and women. Required of all majors.

191. Modern Dance (Beginning). Fall, Winter, and Spring.
(1 q. hr.)

Open to both men and women. Required of all majors.

192. Social Dance. Every quarter. (1 q. hr.)

Open to both men and women. Required of all majors.

194. Track and Field. Spring. (1 q. hr.)

For physical education majors and minors only, or permission of the instructor. Major requirement.

196. Officiating. Fall. (1 q. hr.)

For physical education majors and minors only. Major requirement.

197. Officiating. Winter. (1 q. hr.)

For physical education majors and minors only. Major requirement.

199. Fundamentals. Every quarter. (1 q. hr.)

Understandings and principles of good body mechanics as applied to everyday life. Awareness of tensions, balance, use of muscles in good and poor body mechanics, posture work. Techniques for relaxation.

Major requirement.

272. Basketball (Intermediate). Winter. (1 q. hr.)

Prerequisite: Physical Education 172 or permission of the instructor.

273. Field Hockey (Intermediate). (1 q. hr.)

Prerequisite: Physical Education 173 or permission of the instructor.

277. Volleyball (Intermediate). Winter and Spring. (1 q. hr.)

Prerequisite: Physical Education 177 or permission of the instructor.

281. Badminton (Intermediate). Every quarter. (1 q. hr.)

Prerequisite: Physical Education 181 or permission of the instructor.

283. Golf (Intermediate). Fall and Spring. (1 q. hr.)

Prerequisite: Physical Education 183 or permission of the instructor

286. Swimming (Intermediate). Every quarter. (1 q. hr.)

Prerequisite: Physical Education 186 or permission of the instructor.

287. Tennis (Intermediate). Fall and Spring. (1 q. hr.)

Prerequisite: Physical Education 187 or permission of the instructor.

291. Modern Dance (Intermediate). Every quarter. (1 q. hr.)

Prerequisite: Physical Education 191 or permission of the instructor. Required of all majors.

315. Games for the Elementary School. Winter. (1 q. hr.)

Prerequisite: Physical Education 130. For physical education majors only.

383. Golf (Advanced). Fall and Spring. (1 q. hr.)

Prerequisite: Physical Education 283 or permission of the instructor.

386. Swimming (Advanced). Spring. (1 q. hr.)**387. Tennis** (Advanced). Fall and Spring. (1 q. hr.)

Prerequisite: Physical Education 287 or permission of the instructor.

391. Modern Dance (Composition). Spring. (1 q. hr.)

This course acquaints the students with the elements of dance, its theatre, and its application, resulting in individual and group compositions.

Prerequisite: Physical Education 291, or permission of instructor. Open to both men and women. Required of all majors.

392. Rhythm Analysis. (1 q. hr.)

An analysis of, and practice in, the rhythm factors in movement with special emphasis on the basic dance steps and skills of the folk, square, and social dance forms.

Prerequisite: Physical Education 391. For physical education majors and minors only, or permission of the instructor. Major requirement.

*Professional Courses***Undergraduate Courses****130. Plays, Games and Activities of Low Organization.**

Fall and Winter. (4 q. hrs.)

Games, stunts, athletic and rhythmic activities for the elementary grade children as basic to the high school activities.

Open to both men and women.

131. First Aid and Safety Education. Winter. (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.)

Study of basic philosophy of recreation, of leadership qualities, and of areas, activities and interests in the field of recreation; practical experience in party planning and administration, camping, and outdoor cookery.

Open to both men and women.

227. Health Education in Elementary, Junior, and Senior High Schools. Winter. (4 q. hrs.)

See Physical Education (Men).

228. Organization and Administration of Playgrounds.

Spring. (4 q. hrs.)

See Physical Education (Men).

233. Technique of Team Sports—Soccer, Speedball, and Hockey.

Fall. (4 q. hrs.)

An analysis of the basic techniques of hockey, soccer, speedball. The selection of materials adaptable to the needs of particular groups.

Prerequisite: Activity courses in the above sports or permission of the instructor.

234. Technique of Team Sports—Basketball, Volleyball, and Softball. Winter. (4 q. hrs.)

An analysis of the basic techniques of basketball, volleyball, and softball. The selection of materials adaptable to the needs of particular groups.

Prerequisite: Activity courses in the above sports or permission of the instructor.

235. Theory of Prescribed Exercise. Every quarter. (4 q. hrs.)

Preventive and modified activities for the physically handicapped child. Theory and practice of an orthopedic examination are included.

Open to both men and women. Prerequisite: Zoology 225 and Physical Education 244.

244. Kinesiology. (4 q. hrs.)

See Physical Education (Men).

Prerequisite: Zoology 225.

252 (352). Activity Needs and Interests of the Elementary School Child. Spring. (4 q. hrs.)

The needs in terms of growth, development, and adjustment of children of the elementary grades. How to choose activities that will contribute most to the satisfaction of these needs.

Open to both men and women. Prerequisite: Physical Education 130 or permission of instructor.

300. Advanced and Instructor's First Aid. Spring (4 q. hrs.)

This course includes (1) Advanced First Aid procedures as organized by the American Red Cross and (2) Methods and materials of teaching First Aid.

Open to both men and women. Prerequisite: Physical Education 131 or Elementary Red Cross certificate.

336 (236). Problems in Developing Programs in Modern and Folk Dance. Winter. (4 q. hrs.)

Principles underlying the modern dance art form. Structure and ethnic roots of folk. Materials for course planning, teaching, and accompaniment.

Open to both men and women.

345. Physical Education Activities for the Elementary School. (Omitted 1965-66.)

Guidance in analyzing the students' own school situations. Methods and materials for planning the physical education program.

346. Course Planning and Organization of Square and Social Dance. Fall. (4 q. hrs.)

Theory and methods for Junior and Senior High Schools basic to course planning and teaching. Analysis of music for dance and dance skills. Survey of literature.

Open to both men and women.

351. Camping. (4 q. hrs.)

See Physical Education (Men).

353. Technique of Individual Sports—Archery, Badminton, Tennis, and Stunts. Spring and Summer. (4 q. hrs.)

An analysis of the basic techniques of archery, badminton, tennis, and stunts. The selection of materials adaptable to the needs of particular groups.

Prerequisite: Activity courses in the above sports or permission of the instructor.

354. Physical Education for High School Girls.

(Omitted 1965-66.) (4 q. hrs.)

Methods of presenting physical education activities on the Junior and Senior High School level. Course is designed for the teacher not trained in Physical Education. No credit toward a major in physical education.

355. Field Work in Recreation. (4 q. hrs.)

Students are assigned to a public or private agency in the community for the purpose of organizing and conducting specific activities or groups under supervision.

Open to both men and women.

356. Outing Crafts. Summer. (4 q. hrs.)

A study of the approved techniques for out-of-door living and recreation with opportunity for the student to develop skills in the various areas covered.

Open to both men and women.

360. Introduction to Elementary School Physical Education.

Fall, Winter, Spring. (2 q. hrs.)

A study of physical education as it relates to the total education of the elementary school child. Emphasis is on the developmental approach to physical education.

361. Physical Education Activities for Elementary Schools.

(Omitted 1965-66.) (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.

(Omitted 1965-66.) (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.

(Omitted 1965-66.) (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.

Courses open to Juniors, Seniors, and Graduate Students**450. Evaluation of Physical Education Activities.**

Fall and Spring. (4 q. hrs.)

Selection and administration of physical measurements and tests commonly used in physical education.

Open to both men and women.

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.

456. Organization and Administration of Physical Education.

Winter and Spring. (4 q. hrs.)

Study of effective procedures in organization and administration of the Physical Education program. Students prepare a curriculum on the elementary, junior and senior high school level based upon principles studied in Physical Education 451.

Prerequisite: Physical Education 451.

457. Analysis of Human Motion. (Omitted 1965-66.) (4 q. hrs.)

Study of mechanical principles as they relate to body movement, and of body structure and function as they relate to human motion. Includes specific analysis of technique involved in the execution of sports, skills and of basic body movement.

Prerequisite: Physical Education 244. Open to both men and women.

458. Objectives of Physical Education and Administration of the Program. Spring. (4 q. hrs.)

A condensation of Physical Education 451 and 456. The course is specifically planned for minors in Physical Education or for Education Majors with the area concentration in Physical Education.

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

(Omitted 1965-66.) (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.

495. Course of Study Development in Physical Education.

Spring. (4 q. hrs.)

See Physical Education (Men).

Graduate Courses

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

500. Introduction to Graduate Study in Physical Education.

Fall. (4 q. hrs.)

See Physical Education (Men).

510. Supervision of Physical Education. (Omitted 1965-66.)

(4 q. hrs.)

Techniques of supervision of physical education in the elementary and secondary school; in-service training of classroom and physical education teachers; the relationships with teachers, administrators and the community.

Open to both men and women.

512. Application of Psychology to Physical Education.

Spring. (4 q. hrs.)

A study of psychological principles, laws of learning, and their application to physical education.

Open to both men and women.

513. Planning the Recreation Program. (Omitted 1965-66.)
(4 q. hrs.)

Exploration of philosophical viewpoints underlying a recreational program; criteria for evaluating the recreation potential of a community; formulation of plans for meeting various recreational needs.

Open to both men and women.

528. The Organization and Administration of Community Recreation. Spring. (4 q. hrs.)

See Physical Education (Men).

551. Contribution of the Dance to Folkways, Art and Education. Spring. (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.

May be offered toward the Group III requirement for the degree M.S. in Ed. Open to both men and women.

560. Advanced Theory and Analysis of Team Sports.
(Omitted 1965-66.) (4 q. hrs.)

Study of techniques, organization, and team strategy of selected team sports as they relate to the learner and the Physical Education Program.

Prerequisite: Understanding and/or experience in the sports included.

561. Advanced Theory and Analysis of Individual Sports. Summer. (4 q. hrs.)

Study of techniques, organization and game strategy selected in individual sports as they relate to the learner in the Physical Education Program.

Prerequisite: Proficiency in the areas studied.

562. Problems in the Administration of Girls' Physical Education. (Omitted 1965-66.) (4 q. hrs.)

Provides an opportunity for teachers and administrators to review the current ideas and best practices in the field of physical education. Problems in the administrative field will be studied.

563. Philosophy of Physical Education. Fall. (4 q. hrs.)

Study of principles of physical education with application to current problems in the field.

Open to both men and women.

595. Thesis. (4 q. hrs.)**PHYSICAL SCIENCE****Undergraduate Courses****100. Physical Science.** Fall, Winter, and Spring. (4 q. hrs.)

Basic concepts of physical science are presented through study of topics selected from physics and astronomy.

Physical Science 100 and 101 may be taken in either order or both may be taken simultaneously.

101. Physical Science. Every quarter. (4 q. hrs.)

Principles of chemistry having particular application in the field of elementary education are presented.

102. Physical Science. (Omitted 1965-66.) (4 q. hrs.)

A continuation of 100 and 101. A study of electricity, atomic structure, radioactivity, isotopes, and the chemistry of foods.

Prerequisite: Physical Science 100, 101.

These courses are restricted to students in the curriculum in elementary education.

340. Methods of Teaching Physical Sciences. Winter. (4 q. hrs.)

The presentation of science lessons and the examination of current literature and new approaches to chemistry and physics. A unit on methods and materials for teaching mathematics is included.

Prerequisite: Admission to teacher education.

PHYSICS

Note: All courses except where otherwise indicated in the course description have two lecture periods and two laboratory periods a week.

Undergraduate Courses**120, 121, 122. Physics for Music Students.**

Fall, Winter, Spring. (4 q. hrs. for each course.)

Physics 120, astronomy, mechanics, and heat; Physics 121, sound and acoustics as applied to music; Physics 122, light, electricity, and modern physics. Enrollment limited to music majors or minors.

130, 131, 132. First Year College Physics.

Every quarter. (4 q. hrs. for each course.)

Physics 130, mechanics; 131, wave motion, heat, and electricity; 132, magnetism, light, and nuclear physics.

Acceptable as a year of laboratory science in any curriculum. These courses should be taken in the order listed.

236. Physical Optics and Quantum Theory

Every quarter. (4 q. hrs.)

This is a continuation of the first year college physics sequence. Polarization; interference; diffraction; atomic models; spectra; relativity; X-rays; matter waves.

Prerequisite: First year college physics.

Co-requisite: Mathematics 235.

239. Mechanics. Fall and Winter. (4 q. hrs.)

Motion of a particle in one dimension; simple harmonic motion; damped motion; forced harmonic oscillator; vector algebra; vector operators in various coordinate systems.

Prerequisite: First year college physics and Mathematics 235, co-requisite Mathematics 236. Four hours a week.

240. Mechanics. Winter and Spring. (4 q. hrs.)

Conservative fields; central force motion; motion of a system of particles; gravitational potential; gravitational fields, vibrating string; accelerated coordinate systems.

Prerequisite: Physics 239. Four hours a week.

250. Electronics. Spring. (4 q. hrs.)

A study of the fundamentals of tube and transistor electronics. Emphasis is on amplifiers and the special circuits used in applied science, such as cathode followers, multivibrators and timing circuits. Four laboratory periods a week.

Prerequisite: First year college physics and Mathematics 235.

341. Electricity and Magnetism.

Fall and Spring. (4 q. hrs.)

Coulomb's Law; vectors; electric field strength; potential; Gauss' Law; capacity; dielectrics; solutions of electrostatic problems; electrostatic energy; DC circuits and instruments.

Prerequisite: First year college physics and Mathematics 235, 236. Four hours a week.

342. Electricity and Magnetism. Winter. (4 q. hrs.)

Magnetic field due to steady currents; inductance; changing electric currents; magnetic materials; electrical equipment; L, R and C circuits; Maxwell's Equations and radiation.

Prerequisite: Physics 341. Four hours a week.

Courses open to Juniors, Seniors, and Graduate Students**460. Electrical Measurements.** Fall. (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: First year college physics 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. Atomic Physics. Spring. (4 q. hrs.)

Nature and properties of electrons, protons, atoms, and molecules; special theory of relativity; properties of free electrons; interaction of photons with matter; atomic structure; atomic spectra; introduction to quantum mechanics.

Prerequisite: First year college physics and one year of calculus. Four hours a week.

467. Introduction to Quantum Mechanics. Fall (4 q. hrs.)

Limitations of classical mechanics; Schroedinger equation; harmonic oscillator; uncertainty principle; exclusion principle;

periodic table; perturbation theory; hydrogen atom; electron spin.

Prerequisite: First year college physics and one year of calculus. Four hours a week.

468. Nuclear Physics. Winter. (4 q. hrs.)

Fundamental nuclear particles; nuclear forces and interactions; mass-energy equivalence; fission; fusion; radioactivity; theoretical nuclear models; nuclear detectors; nuclear accelerators; cosmic rays.

Prerequisite: Physics 466 or 467 or permission of instructor. Four hours a week.

469. Solid State Physics. Spring. (4 q. hrs.)

Crystal structure; thermal properties of solids; dielectric and magnetic properties of solids; superconductivity; free electron theory of metals; band theory of metals; semiconductors and insulators; surface phenomena; imperfections in crystals.

Prerequisite: Physics 466 or 467 or permission of instructor. Four hours a week.

480, 481, 482. Special Physics Problems. Offered on demand. (4 q. hrs. for each course.)

Selected problems based on the student's previous training and interests. Admission and assignment of problems by arrangement. Laboratory, reading, and conference.

Prerequisite: Permission of instructor.

Graduate Courses

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

534. Theoretical Mechanics. Offered on demand. (4 q. hrs.)

Vectors; laws of motion; particle statics and dynamics; central field motion; energy and momentum principles for a particle and for systems of particles; mechanics of a rigid body.

Prerequisite: Physics 240 or equivalent and Mathematics 351. Four hours a week.

535. Theoretical Mechanics. Offered on demand. (4 q. hrs.)

Constrained motion, oscillatory motion; deformable bodies; fluid mechanics; generalized coordinates; Lagrange's equations; Hamilton's canonical equations.

Prerequisite: Physics 534. Four hours a week.

580. Current Literature in Physics.

Offered on demand. (4 q. hrs.)

Reading, conference, oral reports.

Prerequisite: Two years' work in physics.

595. Thesis. (4 q. hrs.)

PHYSIOLOGY

(Taught in Department of Zoology)

Undergraduate Courses**345. Physiology.** Fall, Winter, Spring; Summer. (4 q. hrs)

A study of the basic physiological principles is followed by experimental studies of muscle-nerve complexes, circulation, respiration and digestion.

Prerequisite: Zoology 110 or 120.

346. Physiology. (Omitted 1965-66.) (4 q. hrs.)

A continuation of the foregoing course in which studies are made of metabolism, excretion, organs of internal secretion (endocrine glands), special sense organs, and reproductive organs.

Prerequisite: Physiology 345, or permission of head of the zoology department.

POLITICAL SCIENCE

Undergraduate Courses**100. Elements of Government.**

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

Comparative analysis of the institutions and ideologies of contemporary democratic and dictatorial governments designed to provide a systematic overview of the field.

110. American National Government: (Constitutional foundations). Fall, Winter, and Spring. (4 q. hrs.)

Fundamental principles of the American Constitutional system. A treatment of basic concepts of government; constitutionalism; federalism; civil liberties; citizenship; nominations, elections, and political parties.

111. American National Government: (Policy Making and Administration). Fall, Winter, and Spring. (4 q. hrs.)

Congress, the Presidency, Bureaucrats, and the Judiciary. National policies and administration in foreign affairs, defense, business regulation, agriculture, housing, education, etc.

112. State and Local Government. Fall, Winter, and Spring. (4 q. hrs.)

Legal authority, structure, leadership and functions of state, county, city, township, and special district governments. The Illinois State Constitution is analyzed.

220. Introduction to International Relations. Fall. (4 q. hrs.)

An examination of the nature of the nation-state system and of the sources of conflict in the international community.

Prerequisite: Political Science 100 or 110 or consent of the instructor. Not open to freshmen.

221. Contemporary World Politics. (Omitted 1965-66.) (4 q. hrs.)

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

Prerequisite: Political Science 220 or consent of the instructor. Not open to freshmen.

222. International Organization. Spring. (4 q. hrs.)

Development, scope, and functions of general international organization. Emphasis upon the United Nations system and regional organizations such as the European Economic Community.

Prerequisite: Political Science 220 or consent of the instructor. Not open to freshmen.

280. Introduction to Political Analysis. Winter. (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.

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.

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.

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.

336. Governments of Asia. (Omitted 1965-66.) (4 q. hrs.)

The growth and development of political concepts and institutions in the three major powers of Asia—China, Japan, and India. Limited consideration of problem areas in other Asian states.

Prerequisite: Political Science 100 or 110 or consent of the instructor.

364. Problems of State and Local Government. Winter.
(4 q. hrs.)

Case studies of selected problems. Individual student research on a current problem of state or local government.

Prerequisite: Political Science 112 or consent of the instructor.

365. Political Behavior. Fall. (4 q. hrs.)

Analysis of individual and group behavior in the political context with emphasis on the literature of current research in American political institutions and processes.

Prerequisite: Political Science 110, 111, or consent of the instructor.

366 (466). Political Parties and Elections. Winter.
(4 q. hrs.)

Political parties, party systems, policies, and electoral arrangements in the United States and abroad, with particular attention to the organization, functions, and methods of American political parties and to the interrelationships of electoral and party systems.

Prerequisite: Political Science 100 or 110 and 111 or consent of the instructor.

367. Interest Groups. Spring. (4 q. hrs.)

Analysis of the role and techniques of labor, business, agrarian, ethnic, and other groups in the political process. Emphasis on American groups and political institutions.

Prerequisites: Political Science 100 or 110 and 111 or consent of the instructor.

369. The Legislative Process. (Omitted 1965-66.) (4 q. hrs.)

A comprehensive examination of the institutional structures and functions of legislative bodies with emphasis on American examples.

Prerequisite: Political Science 100 or 110 and 111 or consent of the instructor.

370. American Foreign Policy. (Omitted 1965-66.) (4 q. hrs.)

A consideration of factors shaping contemporary American foreign policies. The conduct of American foreign relations and major problems of implementing American policy decisions are analyzed.

Prerequisite: Political Science 220, 221, or 222 or consent of the instructor.

Courses open to Juniors, Seniors, and Graduate Students

451. American Constitutional Law. Spring. (4 q. hrs.)

Supreme Court decisions on: Judicial Review, Federalism, Powers of Congress, Powers of the President, Contracts, Commerce, Taxation, Citizenship, Speech, Press, Religion, Communism, Race Discrimination, Criminal Procedure.

Prerequisite: Political Science 110, 111, or History 233, 234, 235, or consent of the instructor.

465. Public Administration. (Omitted 1965-66.) (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. Spring. (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. Fall. (4 q. hrs.)

A systematic study of the constitutions and formal structure of Latin-American governments; and an analytical and interpretive examination of the political processes which underlie them.

Prerequisite: Political Science 100 or 110 and 111 or consent of the instructor.

490. Political Theory: Ancient and Medieval. Fall. (4 q. hrs.)

The origins and evolution of major concepts in political thought from the time of Pericles through the Conciliar Movement.

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

491. Political Theory: Renaissance and Modern.

Winter. (4 q. hrs.)

A continuation of the study of political thought from the time of Niccolo Machiavelli through Karl Marx.

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

492. Contemporary Political Theory. (Omitted 1965-66.) (4 q. hrs.)

Contemporary concepts in Western Political thought. Emphasis upon the development of modern conservatism, liberalism, Marxism, and national socialism. Independent research interests encouraged.

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

493. Latin American Political Theory. Spring. (4 q. hrs.)

Latin American political thought beginning with its origins in Spain and Portugal. The colonial period and independence; the adaptations and changes successively brought about under "the republics."

Restricted to majors in History, Latin American Studies, Social Science, Political Science or consent of the instructor.

Graduate Courses

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

550. The American Presidency. (Omitted 1965-66.) (4 q. hrs.)

Development, powers and limits of the American Presidency, with emphasis upon Presidential decision making.

Not open to students who have received credit for courses in Political Science. May be offered toward the Group III requirement for the degree M.S. in Ed.

PSYCHOLOGY**Undergraduate Courses****231. Introduction to Psychology.** Every quarter. (4 q. hrs.)

Research theories and methods; principles of motivation, emotion and perception; survey of normal and abnormal adjustment; nature of intelligence testing.

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

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

Prerequisite: Psychology 231.

352. Adolescent Psychology. Winter and Spring. (4 q. hrs.)

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

Prerequisite: Psychology 231.

360. Psychological Measurements: Fundamental Principles.

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

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

Prerequisite: Psychology 231.

447. Social Psychology. Winter, Spring, and Summer. (4 q. hrs.)

Biological and social foundations of behavior, individual factors in adjustment, institutional behavior and conflict situations.

Prerequisite: Psychology 231.

Courses open to Juniors, Seniors, and Graduate Students**450. Psychology of Exceptional Children.**

Spring and Summer (4 q. hrs.)

Psychological diagnosis of, and therapeutic programs for, children who deviate from the normal.

Prerequisite: Psychology 231.

451. Abnormal Psychology. Fall, Spring, and Summer.

(4 q. hrs.)

Nature and dynamics of organic and functional neurosis and psychosis.

Prerequisite: Psychology 231.

452. Psychological Measurements: Intelligence Testing. Spring.

(4 q. hrs.)

Advanced study of individual intelligence tests; practice in administration and interpretation.

Prerequisite: Psychology 231 and Psychology 360.

455. Mental Hygiene. Winter and Summer. (4 q. hrs.)

Stresses the problem of maintaining mental health as related to the home, school, civic and other social situations.

Prerequisite: Psychology 231.

RUSSIAN

(See Foreign Languages)

SOCIAL SCIENCE**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.

SOCIOLOGY**Undergraduate Courses****271. Principles of Sociology.** Every quarter. (4 q. hrs.)

Social relations and institutions; society as communication; competitive co-operation and functional patterns; spatial structure of society; social change; social disorganization.

272. Social Problems and Social Trends.

Winter and Spring. (4 q. hrs.)

The nature of social problems; the problem of adjustment to external nature; population problems; control and care of defectives; the family and child welfare; crime; the meaning and agencies of social control.

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

A consideration of the nature of individual social roles, social interaction, problems of mental health as related to the social milieu, culture and personality.

Prerequisite: Sociology 271 or consent of the instructor.

366. The Sociology of Religion. Spring. (4 q. hrs.)

The development and function of religious groups and institutions; an analysis of the functional significance of beliefs and rituals of selected systems of religious thought.

Prerequisite: Sociology 271 or consent of the instructor.

368. Public Opinion and Propaganda. Fall. (4 q. hrs.)

Analysis of the opinion making process; methods of opinion and attitude manipulation; propaganda techniques and methods of public opinion measurement.

Prerequisite: Sociology 271 or consent of the instructor.

381. The Sociology of Urban Life. Spring. (4 q. hrs.)

A systematic study of urban structure and organization; urban planning and renewal as related to problems of ecology; growth and development of urban communities.

Prerequisite: Sociology 271 or consent of the instructor.

390. Methods of Sociological Investigation.

(Omitted 1965-66.) (4 q. hrs.)

A consideration of basic methods of sampling, polling, and interviewing. Particular attention is given to the problems associated with forms of questioning; fundamental statistical techniques are presented such as types of errors, measures of dispersion, central value, the normal curve and the binomial distribution.

Restricted to majors and minors in Sociology and Social Science.

Courses open to Juniors, Seniors, and Graduate Students**452. The Development of Sociological Thought.**

Winter. (4 q. hrs.)

This course treats the growth of social thought from the pre-scientific to the modern empirical approach based on current modes of sociological inquiry.

Restricted to majors and minors in Sociology and Social Science.

472. Social Stratification. Fall. (4 q. hrs.)

The problems of status, power, differential behavior; social mobility created by class differences in American society.

Prerequisite: Sociology 271 or consent of the instructor.

473. Marriage and the Family. Every quarter. (4 q. hrs.)

The historical background of the modern family; the impact of culture and social change on marriage and the family; personality factors involved in marriage; family disorganization.

474. The Social Problems of Minority Groups.

Winter. (4 q. hrs.)

A survey of the minority groups in the United States; their history, relationship to other groups, and their contributions to American culture.

Prerequisite: Sociology 271 or consent of the instructor.

475. Crime and Juvenile Delinquency. Fall. (4 q. hrs.)

The problems of crime and delinquency; etiological factors in crime and delinquency; prevention, penology and rehabilitation.

Prerequisite: Sociology 271 or consent of the instructor.

491. Individual Problems in Sociology.

Spring. (4 q. hrs.)

Special readings and topics in sociology; substantive evidence of independent scholarship is required.

Restricted to majors in Sociology and Social Science.

SPANISH

(See Foreign Languages)

SPEECH**Undergraduate Courses****131. Speaking in Public.** Every quarter. (4 q. hrs.)

Fundamental principles and methods of selecting, analyzing, evaluating, organizing, developing, and communicating information, evidence, and points of view for constructive influence in speech situations.

230. Speech Composition. Fall, Winter, Spring, and Summer 1966. (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.

330. Interview and Conference. Spring. (4 q. hrs.)

The selection, organization, and oral presentation of ideas and supporting materials in interview, conference, and inter-personal situations.

Prerequisite: Speech 131.

332. Debate. Fall and Winter. (4 q. hrs.)

The study of the responsibility of the advocate in investigation and analysis; evidence; structure of argument; reasoning and refutation. Application of these principles in practice debates.

Prerequisite: Speech 131 or consent of Department Head.

340. Teaching Speech. Spring. (4 q. hrs.)

A study of essential considerations in speech education; problems, methods and materials in teaching basic skills; teaching and directing co-curricular activities.

Prerequisite: Twenty quarter hours in speech. Admission to teacher education.

352. Radio Production Directing. Fall and Winter. (4 q. hrs.)

A study of the equipment and techniques involved in producing radio programs. Problems in announcing, scripting, writing, and producing radio programs. Students direct and edit radio exercises.

Courses open to Juniors, Seniors, and Graduate Students**470. Psychology of Speech.** Spring. (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.

471. History of Public Address. Fall. (4 q. hrs.)

A survey of Classical, Medieval, and Renaissance Theories of Rhetoric including the works of Plato, Aristotle, Cicero, Quintilian, Augustine, Ramus, Sherry, Wilson, Cox, and others.

472. American Public Address. Winter. (4 q. hrs.)

A study of the influence of public speakers on the creation of American ideals and policies.

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.)

555. Research in Speech. Fall. (4 q. hrs.)

An introduction to research methods, bibliographical resources, and professional writing in the field of speech.

560. Deliberation of Human Problems. (4 q. hrs.)

Investigation, discussion, and debate as modes of procedure in human affairs. Principles and procedures applied to actual problems. Includes an evaluation of current practices dealing with contemporary problems.

562. Seminar in Rhetoric. Winter. (4 q. hrs.)

A survey of theories of rhetoric from the eighteenth century to the present. Attention is given to the works of Ward, Blair, Campbell, Whatley, Adams, Austin, Curry, Burke, Flesch, Hall, Hefferline, Schramm, Weiner, Richards, Winans, Woolbert, Brigrance, and others.

572. British Public Address. Spring; Summer 1966. (4 q. hrs.)

A study of twelve selected British public speakers with emphasis upon their abilities to utilize the canons of rhetoric to influence given audiences on given occasions.

595. Thesis. (4 q. hrs.)**SPEECH CORRECTION****Undergraduate Courses****254. Structural and Functional Bases of Speech.**

Fall. (4 q. hrs.)

Organization and functioning of the speech and hearing mechanisms and the fundamental acoustics of voice pitch, quality, loudness, and the speech sounds.

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

A survey of the pathology and etiology of articulatory, voice, hearing, stuttering, and organically based speech disorders; a brief description of the treatment of these disorders.

262. Childhood Development of Speech. Spring. (4 q. hrs.)

Growth and development of speech in children from birth to about seven years of age; special emphasis upon the developmental stages and factors influencing the acquisition of speech.

Courses open to Juniors, Seniors, and Graduate Students**451. Introduction to Clinical Practice in Speech Correction.**

Fall. (4 q. hrs.)

Training in specific diagnostic techniques for speech dis-

orders; planning and carrying out specific therapy techniques. Students observe and begin therapy.

Prerequisite: Speech 260.

452. Voice and Articulation Disorders. Winter and Summer 1966.
(4 q. hrs.)

Nature, causes and treatment of voice and articulation disorders.

Prerequisite: Speech 260, 451.

453. Stuttering. Spring and Summer 1967. (4 q. hrs.)

Prominent theories of causes of stuttering are surveyed. Corrective techniques are studied and evaluated.

Prerequisite: Speech 260, 451.

455. Audiometry and Hearing Aids. Fall and Summer 1967.
(4 q. hrs.)

Pure tone and speech audiometry; techniques for hearing aid selection. Students conduct hearing surveys and do individual hearing tests.

Prerequisite: Speech 260, 451.

456. Audiology. Winter. (4 q. hrs.)

Speech and psychological problems of the deaf and hard of hearing; techniques in lip reading and speech rehabilitation.

Prerequisite: Speech 260, 451, 455.

457. Advanced Clinical Practice. Every quarter. (1-4 q. hrs.)

Experience in organizing and conducting speech and hearing surveys; supervised work with a variety of speech and hearing defects.

A student may receive credit for one to four hours during any quarter provided he spends in clinic work thirty clock hours per quarter hour's credit.

Prerequisite: Speech 260, 451.

458. Organic Disorders of Speech. Spring. (4 q. hrs.)

Etiology and therapy for organic disorders of speech: cleft palate, cerebral palsy, aphasia, and laryngectomy.

Prerequisite: Speech 260, 451, 452.

459. Speech Correction Practice in the School Situation.

Every quarter. (4 q. hrs.)

Speech correction in a school situation; in the campus elementary school or in nearby public schools. Weekly conference with local supervisor and college supervisor required.

Prerequisite: Speech 260, 451, 452, 455, 456.

THEATRE ARTS

Undergraduate Courses

132. Voice and Phonetics. Every quarter. (4 q. hrs.)

A study of voice production and the articulation of sounds; the phonetic alphabet; ear training, and practice in phonetic transcription.

133. Beginning Oral Interpretation. Every quarter. (4 q. hrs.)

Designed to increase vocal skills through reading poetry and prose aloud. Emphasis on heightening enjoyment of literature and preparing the student for advanced work.

Prerequisite: Theatre Arts 132.

240. Introduction to the Theatre. Spring. (4 q. hrs.)

A general introduction to theatrical and dramatic art. Emphasis is on providing the student with the tools of analysis which will give him insight into the total imaginative process that makes up the art of the theatre.

244. Acting. Spring. (4 q. hrs.)

A study of the methods of learning and teaching techniques for the actor, including definite exercises and a practical approach to the art of acting.

257. Technical Direction. Fall. (4 q. hrs.)

Consideration of the elements of technical theatre direction; construction and painting of scenery and properties; theory and technique of stage lighting; stage management.

281. Summer Theatre. Summer. (4-12 q. hrs.)

These courses are designed to give practical, comprehensive experience in theatre arts. Credit for 4, 8, or 12 quarter hours may be earned in one summer.

333. Advanced Oral Interpretation. Winter. (4 q. hrs.)

Study and practice of the techniques of oral interpretation for public performances. Emphasis on analysis of materials, program building and criticism.

Prerequisite: Theatre Arts 133 or permission of the instructor.

357. Scene Design. Winter. (4 q. hrs.)

Step by step consideration of the design sequence from analysis of the script to the completion of production drawings; weekly design projects; familiarization with the forms and styles of scenery; practical experience.

Prerequisite: Theatre Arts 257, or permission of instructor.

358. Design and History of Costume. Spring. (4 q. hrs.)

History of Costume from the early Egyptians to the present day. Costume design for theatrical productions.

431. Children's Dramatics. Winter. (4 q. hrs.)

Dramatics as educational devices for children. The advantages of dramatizing literature, history, and other subjects. Choice of plays is presented.

445. Directing. Winter. (4 q. hrs.)

The study and actual production of the play. Central emphasis is placed on directing.

Courses open to Juniors, Seniors, and Graduate Students**473. Theatre History.** Fall. (4 q. hrs.)

History of theatre from its early beginnings to the present day. Theatre as ritual and as an influence in civilization.

481. Summer Theatre. Summer. (4-12 q. hrs.)

These courses are designed to give practical, comprehensive experience in dramatic art. Credit for 4, 8, or 12 quarter hours may be earned in one summer. Eight hours may be applied to a master's degree.

Graduate Courses

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

563. History of Dramatic Art. Fall. (4 q. hrs.)

Consideration of the staging of plays from the Greek theatre to the present, with emphasis on adaptation of techniques to school play production. Projects in planning productions under various conditions.

595. Thesis. (4 q. hrs.)**ZOOLOGY****Undergraduate Courses**

Zoology 120, 121, and 122 are planned as a general cultural course. They satisfy the general education requirement of a year of laboratory science.

110. Basic General Zoology. Fall. (4 q. hrs.)

Fundamental animal structures; modern information on protoplasm, cells, tissues, organs, and systems; physiological processes; simple Mendelian inheritance.

Open only to majors and minors in zoology.

111 (222). Invertebrate Zoology. Winter. (4 q. hrs.)

This course deals comprehensively with the structure, adaptations, ecology, geographic distribution, phylogeny, and economic importance of the members of the invertebrate phyla of animals.

Prerequisite: Zoology 110 or equivalent. Open only to majors and minors in zoology.

120. General Zoology. Every quarter. (4 q. hrs.)

A consideration of fundamental biological structures and principles based upon animal material. Structure and physiology of cells, tissues, and organs.

121. General Zoology. Fall, Winter, Spring, Summer. (4 q. hrs.)

Types of animal reproduction, genetics, eugenics, and fundamentals of embryology.

Prerequisite: Zoology 120 or equivalent.

122. General Zoology. Fall, Winter, Spring; Summer. (4 q. hrs.)

The structure and natural history of animals of the various divisions of the animal kingdom. Their ecology, geographic, distribution, economic importance and evolution are considered.

Prerequisite: Zoology 120, 121.

124. Elementary Ornithology. (Omitted 1965-66.) (4 q. hrs.)

The aim of this course is to familiarize the student with birds in the field. Recognition, nesting habits, food habits, and economic importance make up the subject matter.

212. Vertebrate Zoology. Spring. (4 q. hrs.)

A study of the natural history of vertebrates with emphasis on Midwestern forms, including distribution, feeding habits, reproduction, economic importance, and classification.

Prerequisite: Zoology 110 or the equivalent.

214. Comparative Anatomy of Vertebrates.

Fall. (4 q. hrs.)

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

Prerequisite: Zoology 110, 111 or equivalent.

215 (346). Embryology. Winter. (4 q. hrs.)

The development of vertebrate animals, including formation of germ cells, maturation, fertilization, growth, cellular differentiation, and heredity. Laboratory studies of the frog, chick and pig. Lectures include human embryology.

Prerequisite: One year of zoology.

225. Anatomy. Every quarter. (4 q. hrs.)

A study of osteology from human bones, followed by dissection of the cat. Primary emphasis on muscles with the specific object of understanding general body movement.

Prerequisite: None; however, Zoology 120 and 121 and sophomore standing are desirable.

226. Economic Entomology. (Omitted 1965-66.) (4 q. hrs.)

A basic study of the structure, life histories and methods of control, followed by specific studies of the common insect pests found in Illinois.

227. Parasitology. Fall. (4 q. hrs.)

The study of animal parasites, means of identification, life histories, and methods of control of the more common parasites, including those of man.

Prerequisite: Zoology 120, 121, 122 or equivalent.

336. Genetics. Spring. (4 q. hrs.)

A study of the basic laws of heredity and variation; laboratory experiments demonstrating the mechanisms of heredity; principles used in production of hybrids for agriculture.

Prerequisite: Junior standing or 20 q. hrs. of zoology.

338 (125). 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.

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

The collection and use of materials for demonstration and laboratory experiments are stressed.

Prerequisite: Admission to teacher education and junior standing.

341. Problems in Zoology. Any quarter. (4 q. hrs.)

Designed to meet the needs of individual students who wish to do advanced work in some field of zoology.

Prerequisite: Five quarters of zoology and the permission of the department head.

343, 344, 345. Entomology. 343, Fall and Summer; 344, Winter; 345, Spring. (4 q. hrs. for each course.)

A study of insects. Deals with the morphology, classification, ecology and economic importance of this large class. Methods of collection and preparation of specimens are included.

Prerequisite: Zoology 110, 111, 212 or equivalent.

347. Fisheries Biology. Fall. (4 q. hrs.)

The fundamentals of the study of the anatomy, classification, life histories and conservation of fish. Field work and study of local fish are stressed.

Prerequisite: Zoology 110, 111, 212 or equivalent.

350. General Physiology. Winter and Spring. (4 q. hrs.)

A study of basic principles underlying the functions of protoplasm and organ systems.

Prerequisite: Zoology 110 or the equivalent.

445. Cytology and Histology. Fall. (4 q. hrs.)

The microscopic structures and functions of cytoplasmic, nuclear and membrane components of cells, and a detailed study of tissues.

Prerequisite: One year of biological science.

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: Two years of zoology and permission of the department head.

Courses open to Juniors, Seniors, and Graduate Students**450. Animal Histology.** (Omitted 1965-66.) (4 q. hrs.)

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

Prerequisite: Zoology 110, 111, 212 or equivalent.

451 (446). Microtechnique. Winter. (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: Two years of zoology.

452 (447). Animal Behavior. (Omitted 1965-66.) (4 q. hrs.)

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

Prerequisite: Two years of zoology or permission of the department head.

453 (448). Animal Ecology. Spring. (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: Two years of zoology, or equivalent and 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.)

545, 546. 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.

550. Ornithology. (4 q. hrs.)

This course includes the study of structure, habits, life histories, migrations, identification, and conservation of birds. There is both field and laboratory work.

May be offered toward the Group III requirement for the degree, M.S. in Ed.

551. Local Fauna. (4 q. hrs.)

A course in local fauna designed to acquaint the student with the animal life of this area. Methods of collecting, preserving and identifying animals are stressed. Includes a study of the habits and life histories of selected forms.

Prerequisite: One year of Zoology or equivalent. May be offered toward the Group III requirement for the degree, M.S. in Ed.

595. Thesis. (4 q. hrs.)

XII. Statistics and Graduates

SUMMARY OF ATTENDANCE

Twelve Months Ending May 28, 1965

SCHOOL YEAR—June 8, 1964, to May 28, 1965

UNIVERSITY

Full-Time, On Campus		Summer*	Fall	Winter	Spring
Seniors:	Men	234	437	447	448
	Women	186	321	318	349
	Total	420	758	765	797
Juniors:	Men	136	519	482	518
	Women	194	342	307	316
	Total	330	861	789	834
Sophomores:	Men	119	523	556	503
	Women	142	412	396	360
	Total	261	935	952	863
Freshmen:	Men	149	962	956	870
	Women	108	815	785	705
	Total	257	1777	1741	1575
Unclassified:	Men	25	7	5	17
	Women	18	4	5	4
	Total	43	11	10	21
Graduates:	Men	281	53	56	59
	Women	94	19	13	19
	Total	375	72	69	78
Total:	Men	944	2501	2502	2415
	Women	742	1894	1824	1753
	Total	1686	4414	4326	4168

Part-Time, On Campus		Summer*	Fall	Winter	Spring
Undergraduates:					
	Men	121	43	51	57
	Women	122	61	75	84
	Total	243	104	126	141
Graduates:					
	Men	22	84	80	122
	Women	25	64	50	70
	Total	47	148	130	192
Workshops:					
	Men	41	—	—	—
	Women	97	—	—	—
	Total	138	—	—	—
Total:					
	Men	184	127	131	179
	Women	244	125	125	154
	Total	422	252	256	333
Total, On Campus					
	Men	1128	2628	2633	2594
	Women	986	2038	1949	1907
	Total	2114	4666	4582	4501
Full-Time Equivalent (Resident)		1890	4522	4435	4309
Part-Time, Off Campus:					
	Men	—	58	—	38
	Women	—	154	—	155
	Total	—	212	—	193
Total University:					
	Men	1128	2686	2633	2632
	Women	986	2192	1949	2062
	Total	2114	4878	4582	4694
Full-Time Equivalent:		1890	4585	4435	4366
LABORATORY SCHOOL					
	Boys	124	258	257	256
	Girls	115	263	263	263
	Total	239	521	520	519

*Includes eight and ten-week enrollments

DEGREE GRADUATES

Master of Science in Education

May, 1964

NAME	POST OFFICE
Bryan, Garland Burcham	Charleston
Doyle, Marianne Bower	Mattoon
Eads, Howard Stanton	Charleston
Farmer, Carrol Dean	Mattoon
Green, James Patrick	Effingham
Harper, Ronald Trent	Bonnie
Hattabaugh, Fred L.	Milford
Hemann, Ralph John	New Douglas
Icenogle, Blanche Garren	Toledo
Klehm, Merwyn Allen	Charleston
Lape, Phyllis Nanette	Mattoon
Loveland, Lois Ann	Paris
Marble, Royce L.	Mattoon
Martin, Jerry A.	Sullivan
Oakley, Sandra Sue	Hume
Tipsword, Wilma Dell	Mattoon
Tolliver, Donnie Lee	Louisville
Waltrip, Thomas Lee	Mattoon
Webb, Eleanor Luanne	Effingham
Weldon, Martha Gentry	Macomb

Men	12
Women	8
Total	20

MASTER OF ARTS

May, 1964

NAME	POST OFFICE
Lance, Lucille Mae	Charleston
Lindsey, Suellyn	Newton
McFadden, John Wallace	Downers Grove

Men	1
Women	2
	<hr/>
Total	3

Bachelor of Science in Education

May, 1964

NAME	POST OFFICE
Adams, Emily Jean	Bartonville
Adams, Thomas O.	Oak Lawn
Anderson, Karin Ann	Oak Lawn
Anderson, Kathryn Sue	St. Charles
Anderson, Robert Donald	Mattoon
Ash, Alma Evanella	Newton
Bailey, David Allen	Decatur
Baker, Charlotte Louise	Charleston
Bales, Ralph Alan	Decatur
Balzer, Chester John	Downers Grove
Bancroft, Betty Jane	Belvidere
Barker, Lora Phyllis	Shelbyville
Barnes, Joanne	Decatur
Barney, Maria	Kankakee
Bartel, Karen Lenore	Chicago
Beavers, William Larry	Mattoon
Bender, Mary Elizabeth	Nokomis
Benedict, Martha Ann	Charleston
Bennett, Kay Ann	Jackson, Michigan
Berchert, Charlene Marie	Oak Lawn
Bergbauer, Joan Ellen	Park Forest
Bergstrom, Julie Christine	Rossville
Bliss, Doris Anne	Effingham
Bluhm, Loretta Kay	Royal
Booher, Sharon Lee Schuster	Monticello
Bork, Darlene Ann	Calumet City
Bracha, Marie Rose	Chicago
Brinkman, Judith Ann	Danville
Brooks, Janice Fay	Humboldt
Brown, Janice Olivia	Potomac
Buffington, Rodney Harris	Winnebago
Burnell, Kay Zimmerman	Newton

Burnett, Lana Diane Greenup
 Burns, John Lewis Mattoon
 Busboom, Leon B. Gifford
 Butler, Roderick Holmes Lovington

Callahan, Victor Lee Milford
 Campbell, Bruce Walter Decatur
 Campbell, Richard Lee Taylorville
 Carr, Sharon Lee Decatur
 Chaplin, Beulah M. Charleston
 Childress Mary E. Ashmore
 Cizek, Marsha M. Harvey
 Conley Marilyn Breen Charleston
 Cook, Sue Jean Stockstill Mattoon
 Cooper, Ivan James Neoga
 Cornell W. Gelaine Lawrenceville
 Cortelyou, Linda Georgene Casey
 Cougill, Susan Jane Charleston
 Crail, Natalie Ann Charleston
 Cunningham, James Floyd Rinard

Danek, Jerry Elizabeth Berwyn
 Dannenberg, Virginia Mayhew Mattoon
 Davis, Jerry Paxton
 DeLozier, Robert Newton Bible Grove
 Denison, Carolyn Sue Champaign
 Didway, Virginia Lee Charleston
 Doran, Diane Louise Bourbonnais
 Doris, Ronald Lee Aroma Park
 Dornblaser, Nedra Kay Hume
 Dowling, David D. Park Ridge
 Drake, Howard Leroy Charleston
 Duncan, Maryanne Villa Grove
 Dworak, Linda Kay Decatur

Eardley, Charles Bill New Douglas
 Eatock, David Glen Litchfield
 Edwards, Joyce Arlene Grant Park
 Ellis, David Lee Pittsfield
 Ellis, Jane Beals Mattoon
 Ellis, Robert Allen Morrisonville
 Emory, Karen L. Hoopeston
 Engelman, Paulette Sue Nokomis
 Englebright, Allen Charles Fairfield
 Estes, III, William Robert Taylorville

Fehrmann, Judith Gayle Centralia
 Fiock, Linda Elaine Decatur
 Fischer, Albert Collinsville
 Fisk, John William Calumet City
 Fitch, Barbara Ann Greenup
 Foreman, Linda Sue Charleston
 Fox, Beatrice Ann Palestine
 Freeland, David P. Neoga
 Freeman, Larry R. Greenup
 Freeman, Wayne A. Lansing
 Friese, Janet Faye Stewardson
 Fuller, Kenneth Ray Palestine
 Fulton, Leladean Consuelo Chrisman
 Fulton, Richard Allen Chrisman

Gaines, Jeffrey Hamilton	Mattoon
Garner, Ruth Carolyn	Charleston
Genetski, Robert	Flushing, New York
Genovese, Jr., Peter Michael	Granite City
Gibbons, Thomas Charles	Mattoon
Glosser, Holly M.	Charleston
Glosser, R. Eleanor	Charleston
Goekler, Christina Louise	Marshall
Goetz, Ethel Grace	Elburn
Good, Edna Joyce	Arcola
Goode, Susan J.	Mattoon
Goss M. Elaine	Hoopeston
Gough, Dixie Lee Motley	Kansas
Grant, Rosemary Judith	Charleston
Green, Bette Frances	Altamont
Greenwood, Alice Ann	Flora
Griffin, John Robert	Windsor
Grimes, Carol Irene King	Greenup
Grimm, Carole Ann	Collinsville
Groothuis, Trudy Jan	Casey
Gudauskas, Jerome Max	Georgetown
Guthrie, Darlene Kay	Sidell
Guthrie, Michael Dean	Sidell
Hagebush, Virginia Swickard	Newman
Hamblin, Erika Erna	Olney
Hance, Linda Catherine Phipps	Charleston
Harrell, Arline Isobel	Kinmundy
Hartke, Kenneth Leith	Kankakee
Hartke, Sherry Von Behren	Girard
Haskett, Bette E. Baker	Sigel
Hawkey, Loyd George	Macon
Heath, Carol Turner	Mattoon
Heisner, Nancy Karen	Frankfort
Henderson, Doris Anne Neil	Park Forest
Henderson, Roger Paul	Herrick
Hendricks, Joel Elder	Mattoon
Herrmann, Arthur Paul	Kenilworth
Hickerson, Raymond Lee	Edwardsville
Hildebrand, Douglas Putnam	Mattoon
Hildebrand, Shirley Rumold	Mattoon
Hinton, George Walter	Pana
Hofman, Ann Regina	Sigel
Holmes, Jennie Kaye	Robinson
Honn, Nila Bunting	Albion
Hopek, Richard Walter	Hammond, Indiana
Hout, Robert G.	Effingham
Hudson, Larry Day	Casey
Huffman, Thomas P.	Olney
Jacobson, Barry Alan	Plainfield, New Jersey
Jaenicke, Alvin Dale	Kankakee
Jahn, Lawrence B.	East St. Louis
James, Richard Keith	Urbana
Jezek, Vera Delores	Westfield
Johnson, Barbara Jane	Danville
Johnson, James Arnold	Paris
Jones, Bonnie Kate	Brownstown
Kelly, Maureen	Joliet
Kerans, Margie	Charleston
Kerchner, John Paul	Downers Grove

Kilhoffer, Sanda Jo	Gifford
Kime, Janet Mary	Sullivan
King, Charles Alfred	Sullivan
Kitchen, David K.	Martinsville
Kittle, Truman Leon	Charleston
Koertge, Douglas J.	Olney
Koertge, Karen	Sumner
Krause, Roger Wayne	Beason
Krizmanic, Donna Jean Kay	Joliet
Kropp, Martin H.	Tuscola
Kubisz, Francis C.	Charleston
Kucharski, Thomasine Cecile	Chicago
Kukla, Thomas A.	Danville
Kull, Phyllis M.	Strasburg
Kure, Sharon Lee	Westchester
Lame, Harold Lee	West Salem
Lash, Geraldine Rose	Chicago
Lawyer, Joanna Louise	Lerna
Leach, Anna Janice	Urbana
LeDuc, Barbara Ruth	Royal
Leonard, Judy Ann	Des Plaines
Lesko, Charles Louis	Pana
Littleton, Ronald Lee	Charleston
Loman, Charles Lyle	Tuscola
Long, Barbara Ellen	Lawrenceville
Lonosky, John Michael	Chicago
Love, Frank Eugene	Charleston
Lowder, Karen E. Hein	Glen Ellyn
Lowder, Kenneth Lee	Sullivan
Lowe, III, John	Witt
Lowry, Jr., Donald Thomas	Strasburg
Lund, Susan Arlene	Chicago
Madsen, Caroline Grace	Schiller Park
Marlowe, Emma Lea	Paris
Martin, James E.	Newton
McCarthy, Eileen Marie	Decatur
McCoy, Joan R. Davolio	Westchester
McCoy, Roger Allan	Fairfield
McDermott, Max Brenton	Mattoon
McKown, Paul William	Palatine
Mentzer, Shirley Alice	Arthur
Mikrut, Arthur Stanley	Lansing
Miller, Darlene Ruth	Lansing
Miller, Roger C.	Shelbyville
Miller, Sharon Lee	Springfield
Misevich, Cecilia P.	Chicago
Mitchell, Donna Gay	Newton
Mizener, James William	Lisle
Montgomery, Carol Ann	Robinson
Mool, Gordon Eugene	El Paso
Moore, Sandra Kay	Sidney
Morgan, Eva Kay	Marshall
Moses, Alice Anne	Toledo
Myers, Darrel Wayne	Assumption
Myers, Patricia Anne	Decatur
Myers, William Leroy	Urbana
Nesheim, Nancy Jean	Chicago
Ninnis, Thomas Grenfell	Charleston
Nuxoll, Donna Jeanette	Olney

Onken, Michael Oliver Bensonville
 Oppman, Richard Allan Hobart, Indiana
 Orndorff, Judith Carol Findlay

Parker, Richard E. Jacksonville
 Pattin, Vera Replogle Charleston
 Pease, Phyllis Marie Decatur
 Pedersen, Erik John Northlake
 Pennell, Margaret Holland Granite City
 Pennell, Ronald Eugene East St. Louis
 Phillips, Donna Sue Cerro Gordo
 Phillips, Ronald B. Charleston
 Poulter, Sherry Beth Hacker Charleston
 Poynter, Larry Lee Effingham
 Press, Patricia Ann Belleville
 Price, Donna Kay Oblong

Ramirez, Edith Bratton Mattoon
 Rathmann Melody River Grove
 Reeds, Anne Bernice Westfield
 Reich, Barbara Joan Decatur
 Reinbold, Keturah Ann Palestine
 Rennels, Frederic M. Sergeant Bluff, Iowa
 Resor, Mary Alice Olney
 Rhoades, Christine Elaine White Hall
 Rich, Gerald G. Olney
 Robinson, Ronald R. Charleston
 Rogers, Mickey Allen Charleston
 Rohler, James Merle Bloomington
 Roland, Lawrence Charleston
 Roland, Paulette Lucille Charleston
 Rotter, Marlene Fletcher Collinsville
 Rusciollelli, Mary Irene Riverton

Sanner, Brenda Laine Hobbs Casey
 Sargent, Philip Dean Urbana
 Sarver, William Dale Herrick
 Schelling, Joy Ann Caseyville
 Schliessman, Gary Anthony Whitestone, New York
 Schmidt, Barbara Ann West Liberty
 Schrier, Annette M. River Forest
 Schultz, Joan Theresa Nashville
 Schuster, James Alfred Auburn
 Schuster, Margaret Ann Auburn
 Schwalb, Joseph Earl Edwardsville
 Schanholtzer, June Carolyn Mattoon
 Shaw, Phyllis Jeanne Eggebrecht Mt. Carmel
 Sherwood, Janet Sharol Toledo
 Sieben, Madonna Elizabeth Mattoon
 Siegrist, Lois Ann Nokomis
 Sij, Charlotte Jean Collinsville
 Simeur, Ronald Gene Manteno
 Sparger, Avealoie Dennis Harvey
 Spencer, James Allan Charleston
 Spraggins, Linda Sue Casey
 Stine, Robert Eugene Springfield
 Stretch, Doris Ann Shelbyville
 Strohmeyer, Eric Richard Elmwood Park
 Sublette, Jack R. Charleston
 Sunday, Lois Lyvonne Clay City
 Sunkel, Sara Sue Paris
 Sutherland, Janet Sue Metcalf Charleston

Switzer, Sara Hughes	Hoopeston
Syfert, Nyla Kaye	Shelbyville
Tedford, Mary Ellen	Newton
Terhune, John Grenfall	Evanston
Thomas, Anita Mae	Neoga
Townsend, Thomas William	Chicago
Traub, Gary L.	Louisville
Trautwein, Edith Evelyn	Charleston
Trout, Ellen Lynette	Robinson
Turner, Carol Jean	Auburn
Turner, Cora Ruth	Mattoon
Turner, Sharon Sue	Charleston
Tyler, Carolyn Jean	Charleston
Ulrich, Richard P.	Wood Dale
Vacca, Kay Carolyn	Highland
Vallera, Deanna Lee	Oak Lawn
Vincenzo, John	Hartford, Connecticut
Vinson, Judith Ann	Oakwood
Volden, Karen Jean	Paxton
Vollrath, Delmar Thurman	Monee
Von Lanken, Joan Em	Danville
Voorhees, Judith Kay	Paxton
Voorhees, Larry Donald	Charleston
Vorlick, George James	Chicago Heights
Wadsworth, Robert Harold	Danville
Walden, Evelyn Edith	Mattoon
Warble, Stephen Ivan	West Dundee
Ward, Ben Henry	Chicago
Ward, Karen Anne	Park Forest
Warner, Ethel M. Peters	Mattoon
Webb, Charlie Roe	Charleston
Webb, Rinda Marie	Charleston
Weinard, Marilyn Lea	Rossville
Wendling, Janet Marlene	Altamont
White, Joyce L.	Salem
Wiercinski, Rosalie Theresa	Niles
Wierzbicki, Christine Elizabeth	Lansing
Wilcox, Donna Ray	Milford
Williamson, Diana Lee	Mt. Prospect
Wilson, Georgiann Ilene	Mattoon
Wilson, Nelvin Kent	Herrick
Wise, Keith Robert	Mattoon
Wolfe, Donna Ilene	Danville
Wood, Judith Cordum	Gillespie
Woods, Jon William	Shelbyville
Wright, Lois Ann	Redmon
Wright, Marjorie Dianne	Mt. Carmel
Wunar, Joseph John	Niles
Young, Carolyn Seeley	Charleston
Yust, Diana Fay	Alton
Ziegler, Ronald R.	Effingham
Zimmerle, Suzanne Summers	Charleston
Zmijewski, Gloria Jayne	Danville
Zorka, Lenora Revaca	Lansing

Men	126
Women	193
Total	<u>319</u>

Bachelor of Science

May, 1964

NAME	POST OFFICE
Adams, Jr., George Fredrick	Evanston
Allison, Stephen L.	Tuscola
Arroyo, David Charles	Elmwood Park
Barber, Donn William	Elgin
Bennett, Timothy Albert	St. Elmo
Bennington, Gary Wood	Decatur
Best, Frederick Zagar	Princeton
Blake, Barry Roy	Kankakee
Bliss, Robert E.	Effingham
Bork, Shirley Ann	Decatur
Brierly, Jerry Dale	Elgin
Burnett, Stephen Dix	Park Forest
Cain, John Martin	Champaign
Campbell, James Michael	Springfield
Campbell, Jerry Lee	Springfield
Campbell, William E.	Murdock
Cash, William Edward	Paris
Clegg, Donald William	Champaign
Craig, Anita Galica	Homewood
Crowder, Larry Arnold	Mattoon
Crum, Donald Wayne	Mattoon
Cutlip, James Daniel	Clinton
Davis, Robert Stanley	Carlinsville
Davis, Ronald Wayne	Charleston
Deibel, Gerald Henry	Dieterich
Eckert, Betty Jane	O'Fallon
Ernst, Garry Eugene	Kinmundy
Fear, Sondra Kay	Salem
Felten, Gerald Porter	Park Forest
Folly, David C.	Mattoon
Frazier, Michael Murray	Charleston
Friesner, Jr., James Edward	Humboldt
Gidcumb, John Robert	Carmi
Golseth, Stephen Ralph	Danville
Hayes, Frankie Darel	Vandalia
Hayes, William Jerome	Champaign
Herder, John Martin	Chicago
Herkert, Bruce George	Lincolnwood
Holtsman, William Lloyd	Palestine
Hutchison, James Nelson	Richton Park
Jurkoshek, Edward Charles	Nokomis

Kamin, Judith Lee	Chicago
Kowal, Dennis James	Bartlett
Kuhl, Byron A.	Arcola
Looby, Ruthanne C.	Charleston
Lueken, Harold John	Sigel
Lwin, Maung Than	Rangoon, Burma
McCreery, Ronald Duane	Mason City
McCumber, James Raymond	Tuscola
McMullen, Donald Edward	Neoga
McPeck, Max E.	Clinton
Meckfessel, William David	Belleville
Merry, Michael Charles	Dieterich
Michaels, Douglas Gene	Charleston
Mouser, Jerry H.	Oblong
Murphy, Charles W.	Skokie
Netherton, Lloyd Dale	Westville
Pine, Jack R.	Paris
Piper, David B.	Princeton
Plath, Richard Raymond	Charleston
Reincke, Douglas Eugene	Portland, Oregon
Rhoads, Doyle Ray	Paris
Ridinger, Richard Charles	Saunemin
Roberson, Rodger Truman	Farmer City
Roberts, Robert David	Granite City
Rowand, James Michael	Homer
Ruble, Robert James	Calumet City
Schnepper, Allan Jay	Chicago
Schumacher, Clarissa Ann	Mattoon
Smith, George Austin	Charleston
Spitza, Tom Leonard	Chicago
Stahoviak, Edmund Francis	Joliet
Stevens, Michael Fred	Urbana
Summers, II, James Robert	Olney
Thermos, Elias S.	Lefkados, Greece
Timmons, Michael Loran	Sullivan
Torbeck, Eugene Keith	Brownstown
Uebner, Lawrence Frederick	Chicago
Utterback, Robert E.	Indianapolis, Indiana
Velasco, Manuel Maria	Charleston
Wade, Jerry Allen	Greenup
Waller, Jerry Ray	Decatur
Welty, Robert Vance	Hoopeston
White, Tom William	Sullivan
Wiker, Cresson Leon	Rantoul
Willson, Peter Lee	Wilmington
Winnett, John Aaron	Greenup
Witkowski, Thomas Walter	Cicero
Wood, Ronald Edward	Bondville
Zumbahlen, Kenneth H.	Dieterich

Men	83
Women	7
Total	90

Bachelor of Arts

May, 1964

NAME	POST OFFICE
Jonas, Jack Wendell	LaPorte, Indiana
Kuzlik, Luanne	Chicago
Peterson, Karl L.	Janesville
Stutzman, Suzanne	Monticello
Worthy, Robert Clair	Champaign
Men	3
Women	2
Total	5

Master of Science in Education

August, 1964

NAME	POST OFFICE
Atkins, Russell Carter	Sumner
Baker, Esther Herring	Litchfield
Berkson, Burton M.	Charleston
Biggs, Garry Wendell	Lawrenceville
Bush, Lucille H.	Charleston
Carlock, Philip Dean	Effingham
Cole, Francis Eugene	St. Louis, Missouri
Creek, Ronald Eugene	Peoria
Dalton, Helen Acklin	Newton
Doemelt, Martha Joan	Charleston
Eggers, Lloyd Dean	Kansas
Ernst, Robert J.	Decatur
Estes, III, William Robert	Taylorville
Fickes, Dennis John	Mattoon
Fielding, George L.	Milford
Fiorillo, Margaret Slattery	Mattoon
Fiorillo, Marion A.	Mattoon
Foltz, Denver Allen	Newton
Fox, Arthur B.	Parker, Arizona
Freeman, Edward H.	Danville
Fulk, Richard Dale	Moweaqua
Fulk, Robert G.	Hillside
Gilbert, Patrick C.	Taylorville
Griffin, John Fletcher	St. Elmo

Hammer, Donn Wesley	Bridgeport
Hart, Lawrence R.	Robinson
Higgins, James Edward	Charleston
Hoover, Pierre J.	Joliet
Horath, Lovell Aden	Dieterich
Hutton, Donald E.	Bethany
Johnson, John Andrew	Charleston
Josserand, Jerry Lee	Oakland
Kahl, Robert Eugene	Litchfield
Kelley, Daniel Lawrence	Chicago
Kelsheimer, Judith Lee Coartney	Ashmore
Kline, Evelyn Loeh	Mt. Carmel
Lambird, Elizabeth G.	Robinson
Lorenc, Phillip Thomas	Joliet
Lowe, Charles Thomas	Charleston
Lower, Darrell Eugene	Carmi
McQueen, Paul E.	Mattoon
Miller, Timothy	Lawrenceville
Morgan, Edgar Wayne	Chrisman
Pahde, Alan Edwin	Decatur
Parkes, Jim L.	Oakland
Parrish, Robert Eugene	Hoopeston
Patterson, William Wayne	Princeton
Phillips, Joy M.	Noble
Pool, Peggy Ann	St. Francisville
Reuther, Carole Luise	Champaign
Reynolds, Michael Eugene	Toledo
Richardson, Richard H.	Bradley
Rusk, Paul Clinton	Noble
Salmons, Neveta Jean	St. Francisville
Senn, Royal Allen	Urbana
Seymour, Gary Richard	Pana
Shah, Chandrika B.	Bombay, India
Shireman, Myrl D.	Pleasant Hill
Skelton, Roy Allen	Crescent City
Smitley, Edgar Dean	Arthur
Toland, Rosemary K.	Mattoon
Vechiola, Donald F.	Berwyn
Walker, Harriet Bernice	Webster Groves, Missouri
Wallace, John William	Mattoon
Warnelis, Joseph D.	Olney
Welton, Duane F.	Mattoon
White, Robert Doyle	Rantoul
Wonderlin, Thomas Alan	Mattoon
Wothke, Leslie Leonard	Charleston

Men 53

Women 15

Total 68

Master of Arts

August, 1964

NAME	POST OFFICE
Ingram, Carole Williams	Charleston
Juriga, Robert Paul	Charleston
Lilly, Samuel Alvin	Dieterich
Stone, George Lawrence	Harvey
Men	3
Women	1
Total	<hr/> 4

Bachelor of Science in Education

August, 1964

NAME	POST OFFICE
Anderson, Edward Henry	Dundas
Ashbaugh, Jack H.	Effingham
Baldwin, Keith I.	Danville
Banks, Joe Richard	Taylorville
Barry, Roger Joseph	Raymond
Beccue, Larry Wayne	Villa Grove
Bennett, Robert Dean	Charleston
Betts, Linda Jane	Park Ridge
Bickers, Ruth Maxedon	Bethany
Birch, Paul Eugene	Ingraham
Bouchard, Ronald Armand	Manteno
Boyer, Robert Kent	Conway, Arkansas
Branch, Donna Jean	Salem
Cain, Richard Duane	Sullivan
Callahan, Victor Lee	Milford
Campbell, Sharon Goodwin	Decatur
Carlock, Janet Schack	Charleston
Carrell, Robert A.	Charleston
Caruso, Vivian Marie	Chicago Heights
Charlton, Barbara Elaine	Salem
Charlton, III, Isaac Allen	Salem
Chase, Jo Lucile	Hillsboro
Claggett, Darlene Marie	Waukegan
Collins, Virginia Huffington	Casey
Conley, Ronald E.	Cerro Gordo
Cutchin, Carol Lee Limpich	Carmi
Doering, Gwendolyn Judith	New Lenox
Doty, Sharon Katherine	Arthur
Dougherty, Thomas L.	Newton
Dunkirk, John Leadwell	Hillsboro

Eaton, Donna May	Decatur
Eaton, Judith Ann	Charleston
Ekman, Carol Gene	Waukegan
Fehrenbacher, Celeste Kay	Ingraham
Ferren, Robert Gordon	Mattoon
Franzen, Gary L.	Rantoul
Gardner, John J.	Springfield
Geiken, Duane Orval	Milford
Genovese, Devorah Heath	Olney
Goldstein, Anna Louise	Sigel
Grandone, Jerald Lee	Gillespie
Gray, Richard Eugene	Arthur
Guentensberger, III, Edward Joseph	Highland
Guthrie, Jane Lee	Edwardsville
Hart, Dorothy Jean Timmons	Albion
Harwood, Florence Gumm	Paris
Hawickhorst, Jean Theresa	Teutopolis
Haws, Linda Kay Carr	Marshall
Hendricks, Elizabeth Ann Puckett	Olney
Henneberry, Mary Constance	Decatur
Holt, Richard Duane	Charleston
Howie, Judy K.	Charleston
Howrey, Gary L.	Kemp
Huber, Charles Walter	Nokomis
Hutchinson, Sandra Beth	Belleville
Ingram, Larry J.	Paris
Kamm, Adrian James	Atwood
Kerr, Judith Ann	Ellery
Kitsos, Thomas R.	Skokie
Krohn, Shelby Jean	Altamont
Krukewitt, Patricia Jeaneen	Homer
Konzelman, Jean Ann	St. Anne
La Beau, Maryanne	Kankakee
Lasseter, Angie Naugle	Tuscola
Little, William Charles	Villa Grove
Long, Robert Eugene	Lovington
Magill, Wilma Leora	Newman
Maus, Margot Louise	Willow Hill
Mattoon, Nancy R.	Olney
Means, Margarita	Effingham
Merry, Gwendolyn Edna	Effingham
Mickelson, Ronald Erwin	Streator
Miller, Janice Verna	Bensenville
Moler, Jacqueline T.	Charleston
Nabors, Robert Wayne	Charleston
Neal, Shirley Winifred	Tuscola
Neeley, Wayne Edward	Olney
Nelson, Joan Louise	Elmhurst
Neubauer, Nancy A.	Collinsville
Nieman, Virgil J.	Effingham
Oakley, Karen	Toledo
Ostrander, Ray Louis	Decatur
Oyer, Martha Marie	Strasburg

Peterson, Nancy MarieBrownstown
 Powers, John KentBrocton

Quayle, Sanford KeithOlney
 Quick, Marilyn SueMarshall

Raber, Karen JeanetteMt. Carmel
 Ramirez, John EliasGary, Indiana
 Ramsey, Vickie LeeCharlotte, Florida
 Reed, Robert StanleyEffingham
 Richardson, Edith HelenNewton
 Rister, Larry MartinNormal
 Ritter, Linda LouiseVandalia
 Roberts, Marleen KayAlhambra
 Rose, Barbara EllenMt. Carmel
 Rubly, Daniel JohnSeward

Scott, Linda SueByron
 Scott, Richard OffettHarrisburg
 Shaw, Emily BethParis
 Sievert, Norman WayneFrankfort
 Smith, Lucinda JaneNewton
 Sperry, Linda KayBelleville
 Stuckey, Sharon CappelMokena

Timmons, Kenneth WilsonCatlin
 Tolen, Phyllis Jeanine McConchieOakland
 Turner, Maxine AnnCentralia
 Tuttle, Thomas HowardVilla Grove
 Titus, Charles WayneCasey

Varga, Robert WilliamCharleston

Walgren, Floyd BronsonSpringfield
 Walk, Marjorie EllenSigel
 Walker, Donald Carl EdwardAlbion
 Wallace, Doris AnnGalatia
 Weber, Ramona SueOlney
 Weiss, Roger LeeBelleville
 Wells, Laura MayHoopeston
 West, Annita BryanRobinson
 Whitaker, Sheryl EileenNeoga
 White, Elizabeth Joan BigardNewton
 White, Robert FranklinMattoon
 Whetson, Carolyn RasmussenPark Forest
 Williams, Judith MarleneRock Island

Men 53

Women 70

Total 123

Bachelor of Science

August, 1964

NAME	POST OFFICE
Arroyo, Richard Daniel	Elmwood Park
Beatty, John Philip	Longview
Bumgarner, III, John Riley	Xenia
Carter, William Keith	Wilmington
Castle, Craig Arthur	Pana
Conner, Charles Dale	Chrisman
Crowder, Jr., Walter	Shelbyville
Cumming, George Alexander	Niles, Ohio
Dale, Jack	Eldorado
Davis, Jacquelyn Ruth	Paxton
DeWitt, Jon Judson	Paris
Glassford, Frederick Eugene	Flora
Hemann, William Irvin	New Douglas
Hubbell, Calvin Edward	Secane, Pennsylvania
Hummel, Richard Allen	Ridgefarm
James, David H.	Newton
Kelly, James P.	Mt. Pulaski
Ketterer, Donald Thomas	Taylorville
Koger, Duane A.	Arcola
Laverty, John J.	Oak Lawn
Leftwich, Larry Jacob	Charleston
Lube, Bruce Michael	Homer
Mangold, David Charles	Oshkosh, Wisconsin
Martens, Terry DeWayne	Dieterich
Mast, Thomas Hamilton	Homer
Meneghetti, Leno Nataleno	Springfield
Rhodes, Richard S.	Kansas
Sandy, Donald Dean	Sandoval
Spencer, Claude Michael	Danville
Stumpf, Frederick Earl	Pana
Tempel, Randolph F.	Webster Groves, Missouri
Turner, Curtis Lynn	Tuscola
Utterback, Karen Elaine	Robinson
Whitten, Floyd Dale	Fillmore
Wright, Marion Eugene	Shreveport, Louisiana

Men	33
Women	2
Total	<hr/> 35

Bachelor of Science in Business

August, 1964

Name	POST OFFICE
Hlavek, Rudolph George	Decatur
Mieure, Donald Ray	Charleston
Morkin, Donald Lee	Flora
Nelson, Richard C.	Naperville

Men	4
Women	0
	<hr/>
Total	4

Bachelor of Arts

August, 1964

NAME	POST OFFICE
Castle, Patricia Joellen	Charleston
Rogers, Karen Kay	Springfield
Shannon, William Edward	East St. Louis
Stokesberry, Jane Ann	Frankfort, Indiana

Men	1
Women	3
	<hr/>
Total	4

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