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A stylized, high-contrast graphic illustration. On the left, a tall, thin, white spire rises from a dark base. To its right, a series of white, blocky buildings of varying heights are arranged in a row, set against a dark, textured background that resembles a hillside or a night sky. Below the buildings, a white horizontal bar contains the text 'MOREHEAD STATE UNIVERSITY' in bold, black, sans-serif capital letters. The bar is flanked by vertical lines and has several vertical lines extending downwards from its base.

MOREHEAD STATE UNIVERSITY

GENERAL CATALOG • 1968-69

BULLETIN
OF
Morehead State University

MOREHEAD, KENTUCKY

GENERAL CATALOG
1968-69

MEMBER

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American Association of Colleges for Teacher Education
American Council on Education
National Council for Accreditation of Teacher Education
National Association of Schools of Music

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THE UNIVERSITY

University Calendar
Organizational Chart
Board of Regents
Administrative Staff
The Faculty
Committees
Aims and Objectives
General Information



MOREHEAD STATE UNIVERSITY

University Calendar, 1968-69**FIRST SEMESTER**

September 14	Saturday	Registration of part-time students for night and Saturday classes
September 16	Monday A.M. Monday P.M.	Freshmen Orientation begins Orientation of transfer students
September 17	Tuesday A.M. Tuesday P.M.	Registration of seniors and graduate students Registration of juniors and sophomores
September 18	Wednesday A.M. Wednesday P.M.	Registration of juniors and sophomores Registration of freshmen
September 19	Thursday	Registration of freshmen
September 20	Friday	Classes begin (MWF schedule)
September 23	Monday	Last day to register for full load
September 30	Monday	Last day to register for credit
October 14	Monday	Students who drop courses after this date will automatically receive marks of "E" in the courses dropped
October 21	Monday	Freshman grade reports to Data Processing
November 18	Monday	Mid-term grade reports to the Registrar's Office
November 27	Wednesday	Thanksgiving Holiday begins at 11:20 A.M.
December 2	Monday	Class work resumes at 8:00 A.M.
December 20	Friday	Christmas Holiday begins at 11:20 A.M.
January 6	Monday	Class work resumes at 8:00 A.M.
January 24, 27, 28, and 29		Final examinations
January 31	Friday	First semester closes at 4:30 P.M.

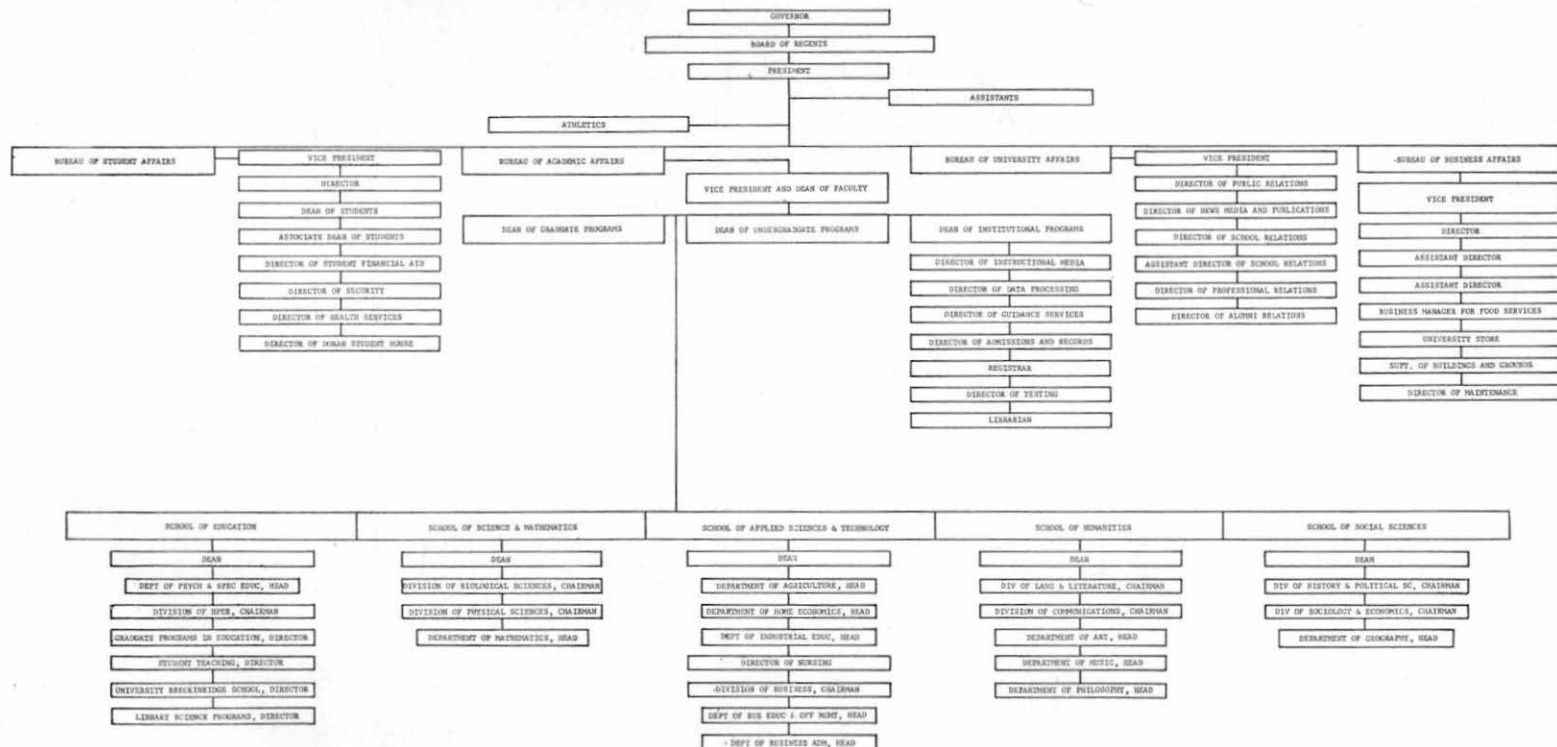
SECOND SEMESTER

February 1	Saturday	Registration of part-time students for night and Saturday classes
February 5	Wednesday A.M.	Orientation of new students
		Registration of seniors and graduate students
	Wednesday P.M.	Registration of juniors and sophomores
February 6	Thursday A.M.	Registration of juniors and sophomores
	Thursday P.M.	Registration of freshmen
February 7	Friday	Registration of freshmen
February 10	Monday	Classes begin (MWF schedule)
February 12	Wednesday	Last day to register for full load
February 17	Monday	Last day to register for credit
March 3	Monday	Students who drop courses after this date will automatically receive marks of "E" in the courses dropped
March 31	Monday	Mid-term grade reports to the Registrar's Office
April 5	Saturday	Spring Vacation begins at 12:00 M.
April 14	Monday	Class work resumes at 8:00 A.M.
June 2	Monday	Final examinations begin
June 7	Saturday	Second semester closes at 12:00 M.

Summer Session 1969

June 16 and 17	Monday and Tuesday	Registration
June 18	Wednesday	Classes begin
August 9	Saturday	Summer session closes

ORGANIZATIONAL CHART



Board of Regents

WENDELL P. BUTLER	Frankfort, Kentucky
State Superintendent of Public Instruction, ex officio chairman	
W. H. CARTMELL	Maysville, Kentucky
LLOYD CASSITY	Ashland, Kentucky
DAVID H. DORTON	Paintsville, Kentucky
CHARLES W. GILLEY	Lexington, Kentucky
CLOYD McDOWELL	Harlan, Kentucky
B. F. REED	Drift, Kentucky

OFFICERS OF THE BOARD

WENDELL P. BUTLER	Chairman
W. H. CARTMELL	Vice-Chairman
ANNA B. CARTER	Secretary

Administrative Staff

ADRON DORAN	-----	<i>President</i>
JOYCE HART	-----	<i>Secretary</i>
TROY BURGESS	-----	<i>Secretary</i>

ACADEMIC AFFAIRS

WARREN C. LAPPIN	-----	<i>Vice President for Academic Affairs and Dean of the Faculty</i>
PAUL FORD DAVIS	-----	<i>Dean of Undergraduate Programs</i>
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MARVIN M. COLE	-----	<i>Dean of Institutional Programs</i>
MORRIS L. NORFLEET	-----	<i>Director of Research and Program Development</i>
C. NELSON GROTE	-----	<i>Dean, School of Applied Sciences and Technology</i>
KENNETH E. DAWSON	-----	<i>Dean, School of Education</i>
JOHNSON E. DUNCAN	-----	<i>Dean, School of Humanities</i>
WILLIAM C. SIMPSON	-----	<i>Dean, School of Sciences and Mathematics</i>
ROSCOE PLAYFORTH	-----	<i>Dean, School of Social Sciences</i>
LINUS A. FAIR	-----	<i>Registrar</i>
MARY ELLA WELLS	-----	<i>Assistant Registrar</i>
JOHN R. DUNCAN	-----	<i>Director of Admissions</i>
IONE M. CHAPMAN	-----	<i>Librarian</i>
HAZEL WHITAKER	-----	<i>Director of Testing</i>
NORMAN TANT	-----	<i>Director of Instructional Media</i>
REEDUS D. BACK	-----	<i>Director of Laboratory School</i>
ANNA LEE BAYS	-----	<i>Secretary</i>
KATHERINE McNEELY	-----	<i>Secretary</i>
GERALDINE HARVEY	-----	<i>Secretary</i>

STUDENT AFFAIRS

ROGER L. WILSON	-----	<i>Director of Student Affairs</i>
ELMER ANDERSON	-----	<i>Student Finance Officer</i>
BUFORD CRAGER	-----	<i>Dean of Students</i>
ANNA MAE RIGGLE	-----	<i>Associate Dean of Students</i>
DORIS WELLS	-----	<i>Secretary</i>

UNIVERSITY AFFAIRS

RAYMOND R. HORNBACK	-----	<i>Director of University Affairs</i>
M. C. GARROTT	-----	<i>Assistant Director of University Affairs</i>
MONROE WICKER	-----	<i>Director of School Relations</i>
WILLIAM M. HUIE	-----	<i>Assistant Director of School Relations</i>
RONDAL D. HART	-----	<i>Director of Alumni Relations</i>
ROGER H. JONES	-----	<i>Director of Professional Relations</i>

BUSINESS AFFAIRS

RUSSELL M. McCLURE	-----	<i>Director of Business Affairs</i>
ROBERT W. STOKES	-----	<i>Assistant Director of Business Affairs</i>
BILL B. PIERCE	-----	<i>Assistant Director of Business Affairs</i>
WILLIAM EWERS	-----	<i>Assistant Director of Purchasing</i>
W. H. RICE	-----	<i>Superintendent of Buildings and Grounds</i>
VIRGINIA CAUDILL	-----	<i>Secretary</i>

The Faculty

- ADRON DORAN, B.S., A.M., Ed.D., LL.D. ----- *President and Professor of Education*
 B.S., A.M., Murray State University;
 Ed.D., University of Kentucky; LL.D.,
 Ashland (Ohio) College, 1967. At Morehead since 1954.
- DOUGLAS ADAMS, A.B., A.M. ----- *Assistant Professor of Art*
 A.B., Morehead State University; A.M.,
 Eastern Kentucky State University. At
 Morehead since 1967.
- HOBART W. ADAMS, B.S., M.B.A., D.B.A. ----- *Head of Department of Business Administration and Professor*
 B.S., Kent State University; M.B.A.,
 D.B.A., Indiana University. At Morehead
 since 1962.
- DOROTHY L. ADKINS, A.B., A.M. ----- *Instructor of English*
 A.B., A.M., Arizona State University. At
 Morehead since 1966.
- JOHN E. ALLEN, A.B., A.M. ----- *Assistant Professor of Health, Physical Education and Recreation, Freshman Basketball Coach*
 A.B., A.M., Morehead State University.
 At Morehead since 1954.
- ELIZABETH C. ANDERSON, A.B. ----- *Instructor of Education Supervising Teacher*
 A.B., Morehead State University. At
 Morehead since 1966.
- ELMER D. ANDERSON, A.B., A.M. ----- *Student Finance Officer and Instructor of History*
 A.B., A.M., Morehead State University.
 At Morehead since 1966.
- MARY T. ANDERSON, B.E., A.M. ----- *Assistant Professor of Education, Supervising Teacher*
 B.E., Normal University (Illinois); A.M.,
 Teachers College, Columbia University.
 At Morehead since 1952.
- GEORGE P. ANDRIX, B.M., M.M. ----- *Assistant Professor of Music*
 B.M., M.M., University of Illinois. At
 Morehead since 1967.
- PEGGY H. ANDRIX, B.M., M.M. ----- *Instructor of Music*
 B.M., M.M., University of Illinois. At
 Morehead since 1967.

- ROBERT ARENDS, A.B., B.D., Ph.D. ----- *Associate Professor of English*
A.B., Iowa State College; B.D., Northwestern; Ph.D., Yale University. At Morehead since 1966.
- JOHN C. ATWOOD, B.M., M.M. ----- *Assistant Professor of Music*
B.M., Houghton College (New York); M.M., Oberlin Conservatory (Ohio). At Morehead since 1966.
- REEDUS BACK, B.S., M.S. ----- *Director of the Laboratory School and Associate Professor of Education*
B.S., Berea College; M.S., University of Kentucky. At Morehead since 1962.
- ISABEL L. BAKER, B.S., M.S. ----- *Instructor of Education*
B.S., Northeastern State College (Oklahoma); M.S., Oklahoma State University. At Morehead since 1967.
- TIM BAKER, B.S., M.S. ----- *Assistant Professor of Industrial Education*
B.S., Northeastern State College (Oklahoma); M.S., Oklahoma State University. At Morehead since 1967.
- PAUL JERALD BANGHAM, A.B., A.M., Ph.D. ----- *Assistant Professor of Dramatic Art*
A.B., A.M., Ph.D., Ohio State University. At Morehead since 1961.
- MARSHALL D. BANKS, A.B., M.S. ----- *Instructor of Health, Physical Education and Recreation, Track Coach*
A.B., Morehead State University; M.S., University of Illinois. At Morehead since 1965.
- LEWIS R. BARBER, A.B., M.S. ----- *Instructor of Physics*
A.B., Berea College; M.S., University of Miami (Florida). At Morehead since 1967.
- MABEL W. BARBER, A.B., A.M. ----- *Assistant Professor of Psychology*
A.B., A.M., Morehead State University. At Morehead since 1960.
- WOODROW W. BARBER, B.S., A.M. ----- *Assistant Professor of Biology*
B.S., A.M., Morehead State University. At Morehead since 1961.

- LEWIS W. BARNES, B.S., B.P.H.E., A.B., LL.B.,
A.M., Ph.D., D.Lit. ----- *Professor of English*
B.S., Louisiana State; B.P.H.E., A.M., Uni-
versity of Toronto (Canada); LL.B., John
Marshall Law School (Georgia); A.M.,
University of Birmingham (England);
A.M., Ph.D., University of Ottawa (Can-
ada); D.Lit., London University (Eng-
land). At Morehead since 1963.
- RUTH B. BARNES, A.B., A.M., Ph.D. ----- *Associate Professor of*
A.B., A.M., Ph.D., London (England) *English*
University. At Morehead since 1963.
- LEE M. BEALL, A.B., M.Ed., A.M., Ed.D. ----- *Assistant Professor of*
A.B., American University (Washington, *Music*
D.C.); M.Ed., University of Maryland;
A.M., Appalachian State Teachers College
(North Carolina); Ed.D., American Uni-
versity. At Morehead since 1968.
- SUSAN M. BEALL, A.B., A.M. in Mus., A.M. in Ed. *Instructor of Music*
A.B., A.M. in Mus., American University
(Washington, D.C.); A.M. in Ed., Ap-
palachian State Teachers College (North
Carolina). At Morehead since 1968.
- JAMES R. BEANE, B.M., M.M. ----- *Associate Professor of*
B.M., Stetson University; M.M., Louisiana *Music*
State University. At Morehead since 1959.
- THELMA LEE BELL, B.S., A.M., Ph.D. ----- *Associate Professor of*
B.S., North Texas State Teachers College; *Home Economics*
A.M., Texas State College for Women;
Ph.D., Texas Womens University. At
Morehead since 1965.
- *EARL J. BENTLEY, B.S., M.S., ----- *Assistant Professor of*
B.S., Troy State College (Alabama); M.S., *Health, Physical*
University of Tennessee. At Morehead *Education and*
since 1959. *Recreation*

(*Leave of absence 1966-68)

- M. ADELE BERRIAN, B.M., A.B., A.M., Ph.D. ---- *Professor of*
 B.M., A.B., Bethany College (Kansas); *Psychology*
 A.M., Stanford University (California);
 A.M., George Washington University;
 Ph.D., University of Colorado. At More-
 head since 1964.
- WILLIAM M. BIGHAM, JR., B.M.E., M.M., Ph.D. -- *Professor of Music*
 B.M.E., Murray State University (Ken-
 tucky); M.M., University of Miami
 (Florida); Ph.D., Florida State University.
 At Morehead since 1965.
- JACK E. BIZZEL, B.S., A.M., Ph.D. ----- *Associate Professor of*
 B.S., Southern Illinois University; A.M., *Political Science*
 University of Illinois; Ph.D., Southern Illi-
 nois University. At Morehead since 1966.
- DOROTHY E. BLACK, B.S., M.B.A. ----- *Assistant Professor of*
 B.S., M.B.A., University of Alabama. At *Business*
 Morehead since 1965.
- PAUL W. BLAIR, B.S., Juris Dr. ----- *Instructor of Business*
 B.S., Morehead State University; Juris
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 Law. At Morehead since 1968.
- BERNICE BOGGS, A.B., A.M. ----- *Instructor of Biology*
 A.B., Union College (Kentucky); A.M.,
 University of Kentucky. At Morehead
 since 1966.
- PATTI V. BOLIN, A.B., B.S., A.M. ----- *Associate Professor of*
 A.B., B.S., Western (Kentucky) State *Home Economics*
 University; A.M., University of Kentucky;
 A.C. in Education, University of Illinois.
 At Morehead since 1948.
- PAUL R. BORDERS, A.B., M.S., Ed.D. ----- *Associate Professor of*
 A.B., M.S., Ed.D., Indiana University. At *Education*
 Morehead since 1966.
- *JAMES W. BRAGG, B.M., M.M. ----- *Assistant Professor of*
 B.M., M.M., New England Conservatory *Music*
 of Music (Mass.). At Morehead since
 1963.

(*Leave of absence 1967-68)

- RUSSEL M. BRENGELMAN, B. of Engr. Physics,
M.S., Ph.D. -----Assistant Professor of
B. of Engr. Physics, Auburn University; Physics
M.S., Ph.D., Georgia Institute of Tech-
nology. At Morehead since 1967.
- WALLACE M. BROWN, A.B., M.S. -----Instructor of Health,
A.B., Morehead State University; M.S., Physical Education
University of Tennessee. At Morehead and Recreation.
since 1966. Assistant Football
Coach
- WILLIAM D. BROWN, A.B., A.M. -----Assistant Professor of
A.B., Louisiana Polytechnic Institute; A.M., Journalism
Louisiana State University. At Morehead
since 1966.
- CHARLES W. BRUCE, A.B., A.M. -----Instructor of Education
A.B., University of Kentucky; A.M., More- Supervising Teacher
head State University. At Morehead since
1967.
- DAVID M. BRUMAGEN, B.S., M.S., Ph.D. -----Assistant Professor of
B.S., M.S., Ph.D., University of Kentucky. Biology
At Morehead since 1966.
- *BETTY M. BURCHETT, A.B., A.M. -----Assistant Professor of
A.B., Berea College, A.M., Morehead State Biology
University. At Morehead since 1964.
- ANNA M. BURFORD, B.S., A.M. -----Instructor of Business
B.S., A.M., Western Kentucky State Uni-
versity. At Morehead since 1967.
- GEORGE R. BURGESS, A.B., A.M. -----Instructor of History
A.B., A.M., Morehead State University. At and University
Morehead since 1967. Photographer
- LEONARD E. BURKETT, B.S., A.M., Ed.D. -----Assistant Professor of
B.S., A.M., Eastern Kentucky State Uni- Education
versity; Ed.D., University of Kentucky. At
Morehead since 1967.

(*Leave of absence 1st Sem. 1967-68)

- IVIS LEON BURTON, B.S., A.M. ----- *Instructor of*
B.S., A.M., Morehead State University. At *Mathematics*
Morehead since 1967.
- FRED M. BUSROE, B.S., M.Ed. ----- *Instructor of Biology*
B.S., Lincoln Memorial University; M.Ed.,
University of Virginia. At Morehead since
1967.
- M. DAVID BUSHOUSE, B.M., M.M. ----- *Instructor of Music*
B.M., M.M., University of Michigan. At
Morehead since 1966.
- PAUL S. CAIN, B.S., M.S., Ph.D. ----- *Associate Professor of*
B.S., M.S., Cornell University; Ph.D., *Agriculture*
University of Illinois. At Morehead since
1965.
- ROLENE B. CAIN, A.B., A.M. ----- *Assistant Professor of*
A.B., Georgia State College for Women; *Mathematics*
A.M., University of Illinois. At Morehead
since 1965.
- HAZEL B. CALHOUN, A.B., A.M. ----- *Assistant Professor of*
A.B., Morehead State University; A.M., *Education,*
George Peabody College. At Morehead *Supervising Teacher*
since 1965.
- GLENNA E. CAMPBELL, A.B., A.M. ----- *Instructor of English*
A.B., A.M., Morehead State University.
At Morehead since 1966.
- THERESA C. CARTE, B.S., A.M. ----- *Assistant to the Di-*
B.S., A.M., Morehead State University. *rector of Research*
At Morehead since 1966. *and Program De-*
velopment, Instruc-
tor of Business
- THELMA C. CAUDILL, A.B., A.M. ----- *Associate Professor of*
A.B., A.M., Morehead State University. *Education*
At Morehead since 1958.
- JOYCE B. CHANEY, A.B., A.M. ----- *Assistant Professor of*
A.B., A.M., Morehead State University. *English*
At Morehead since 1961.
- REX CHANEY, A.B., A.M. ----- *Assistant Professor of*
A.B., A.M., Morehead State University. *Health, Physical*
At Morehead since 1961. *Education and Rec-*
reation, Director of
Program in Recrea-
tion Education.

- *JAMES R. CHAPLIN, B.S., M.S. ----- Assistant Professor of
B.S., Cornell College (Iowa); M.S., Uni- Geology
versity of Houston. At Morehead since
1962.
- IONE M. CHAPMAN, A.B., A.M., B.S. in Lib. Sci. --- Assistant Professor of
A.B., University of Illinois; A.M., Columbia Library Science,
University; B.S., University of Illinois. At Librarian
Morehead since 1946.
- SHERWOOD WAYNE CHAPMAN, A.B. ----- Assistant Instructor of
A.B., Morehead State University. At More- Health, Physical
head since 1968. Education and Rec-
reation, Assistant
Football Coach
- WILLIAM T. CLARK, B.S., A.M. Ph.D. ----- Assistant Professor of
B.S., A.M., Ph.D., University of Kentucky. Geography
At Morehead since 1964.
- BETTY M. CLARKE, A.B., A.M. ----- Instructor of English
A.B., A.M., Morehead State University.
At Morehead since 1965.
- L. BRADLEY CLOUGH, A.B., B.S., M.S., Ph.D. --- Head of Department
A.B., University of Bridgeport (Conn.); of Special Education
B.S., Southern Connecticut State College; and Psychology and
M.S., University of Bridgeport; Ph.D., Uni- Associate Professor
versity of Connecticut. At Morehead since
1966.
- MARVIN M. COLE, B.S., A.M. Ed.D. ----- Dean of Institutional
B.S., A.M., Western Carolina College; Programs and Asso-
Ed.D., Indiana University. At Morehead ciate Professor of
since 1966. Education
- FRANCES EUGENIA COMER, A.B., A.M. ----- Instructor of Art
A.B., Centenary College of Louisiana;
A.M., Louisiana State University. At More-
head since 1967.
- L. DOROTHY CONLEY, A.B., A.M. ----- Instructor in
A.B., A.M., Morehead State University. Geography
At Morehead since 1959.
- ALEX D. CONYERS, B.S., M.B.A. ----- Associate Professor of
B.S., M.S.A., University of Kentucky. At Business
Morehead since 1958.

(*Leave of absence 1967-68)

- BOBBIE P. COOPER, B.S., M.S. ----- *Instructor of Chemistry*
 B.S., Murray State University; M.S., University of Kentucky. At Morehead since 1965.
- LAKE CORNETTE COOPER, A.B., A.M. ----- *Associate Professor of*
 A.B., A.M., Morehead State University. *Mathematics*
 At Morehead since 1956.
- ALICE E. COX, B.S., A.M. ----- *Assistant Professor of*
 B.S., A.M., University of Kentucky. At *Business*
 Morehead since 1948.
- HUBERT V. CRAWFORD, A.B., M.S.S.W. ----- *Instructor of Sociology*
 A.B., Morehead State University; M.S.S.W., Kent School of Social Work. At Morehead since 1966.
- WENDELL H. CROSS, B.S., M.S., Ph.D. ----- *Associate Professor of*
 B.S., Montana State College; M.S., South *Chemistry*
 Dakota School of Mines and Technology; Ph.D., Georgia Institute of Technology. At Morehead since 1966.
- MILAN B. DADY, A.B., M.E., Ed.D. ----- *Head of Department*
 A.B., Kearney State College; M.E., Ed.D., *of Elementary Edu-*
 University of Nebraska. At Morehead *cation and Professor*
 since 1966.
- LARRY N. DALES, A.B. ----- *Instructor of Education,*
 A. B., Morehead State University. At *Supervising Teacher*
 Morehead 1962-64 and since 1967.
- JAMES E. DAVIS, A.B., A.M., Ph.D. ----- *Associate Professor of*
 A.B., A.M., Morehead State University; *English*
 Ph.D., Florida State University. At Morehead since 1961.
- PAUL FORD DAVIS, A.B., A.M., Ed.D. ----- *Dean of Under-*
 A.B., A.M., University of Kentucky; *graduate Programs*
 Ed.D., Indiana University. At Morehead *and Professor of*
 since 1966. *Education*
- KENNETH E. DAWSON, B.S., M.Ed., Ph.D. ----- *Dean of the School of*
 B.S., Virginia Polytechnic Institute; M.Ed., *Education and*
 University of Virginia; Ph.D., University *Professor*
 of Maryland. At Morehead since 1966.

- LORENE S. DAY, A.B., A.M. ----- Assistant Professor of
A.B., Kentucky Wesleyan College; A.M., English
Teachers College, Columbia University.
At Morehead since 1930.
- MARVIN E. DEATON, B.M.E., A.M. ----- Assistant Professor of
B.M.E., Murray (Kentucky) State Uni- Music
versity; A.M., George Peabody College.
At Morehead since 1965.
- VITO DE CARIA, A.B., A.M., Ph.D. ----- Associate Professor of
A.B., Ipponion College (Italy); A.M., French
Florence (Italy) University; Ph.D., Mes-
sina University (Italy). At Morehead since
1966.
- DIENZEL C. DENNIS, B.S., A.M. ----- Instructor of Educa-
B.S., Anderson (Indiana) College; A.M., tion, Supervising
Eastern Kentucky State University. At Teacher
Morehead since 1966.
- JOY R. DENNIS, B.S. ----- Instructor of Educa-
B.S., Anderson (Indiana) College. At tion, Supervising
Morehead since 1966. Teacher
- GEORGE F. DEREMO, A.B., A.M. ----- Instructor of Art
A.B., A.M., California State College. At
Morehead since 1966.
- CHARLES M. DERRICKSON, B.S., M.S., Ph.D. ----- Head of Department
B.S., M.S., University of Kentucky; Ph.D., of Agriculture and
Michigan State University. At Morehead Associate Professor
since 1965.
- ROLLAND L. DEWING, A.B., M.Ed., Ph.D. ----- Assistant Professor of
A.B., M.Ed., Central Washington College History
(Washington); Ph.D., Ball State Univer-
sity (Indiana). At Morehead since 1966.
- ANN L. DOBSON, B.S., M.S., Ph.D. ----- Assistant Professor of
B.S., Virginia Polytechnic Institute; M.S., Biology
Ph.D., West Virginia University. At More-
head since 1967.
- *BEN R. DOTSON, A.B., A.M. ----- Instructor of Sociology
A.B., University of Kentucky; A.M., More-
head State University. At Morehead since
1964.

(*Leave of absence 1967-68)

- JULES R. DuBAR, B.S., M.S., Ph.D. ----- *Head of Department
of Geology and As-
sociate Professor*
B.S., Kent State University (Ohio); M.S.,
Oregon State University; Ph.D., Univer-
sity of Kansas. At Morehead since 1967.
- JOHN R. DUNCAN, A.B., A.M., Ed.D. ----- *Director of Admissions
and Assistant Pro-
fessor of Sociology*
A.B., A.M., Morehead State University;
Ed.D., Indiana University. At Morehead
since 1964.
- JOHNSON E. DUNCAN, B.M.E., M.M., Ph.D. ----- *Dean of the School of
Humanities and
Professor of Music*
B.M.E., M.M., Northwestern University;
Ph.D., George Peabody College. At More-
head since 1956.
- FREDERICK B. EDLING, A.B., A.M. ----- *Assistant Professor of
Russian*
A.B., A.M., George Peabody College. At
Morehead since 1967.
- HASSAN M. EL-SHAMY, A.B., A.M., Ph.D. ----- *Assistant Professor of
Sociology*
A.B., Heliopolis University (Egypt); A.M.,
Ph.D., Indiana University. At Morehead
since 1967.
- THELMA B. EVANS, A.B., A.M. ----- *Assistant Professor of
Education,
Supervising Teacher*
A.B., A.M., University of Kentucky. At
Morehead since 1943.
- JESSE E. EVERSOLE, B.S., M.S. ----- *Instructor of Educa-
tion, Supervising
Teacher*
B.S., M.S., University of Kentucky. At
Morehead since 1965.
- RICHARD G. EVERSOLE, B.S., A.M. ----- *Instructor of Biology*
B.S., Eastern Kentucky State University;
A.M., Morehead State University. At
Morehead since 1965.
- WILHELM EXELBIRT, Ph.D. ----- *Professor of History*
Ph.D., University of Vienna. At Morehead
since 1948.
- LINUS A. FAIR, A.B., A.M. ----- *Registrar and Associate
Professor of
Mathematics*
A.B., Arkansas State Teachers College;
A.M., George Peabody College. At More-
head since 1932.

- °WILLIAM R. FALLS, B.S., A.M. ----- Assistant Professor of
B.S., Rio Grande College (Ohio); A.M., Physics
Marshall University. At Morehead since
1961.
- ELLIOTT J. FELDMAN, A.B., A.M. ----- Assistant Professor of
A.B., City College of New York; A.M., Political Science
University of Michigan. At Morehead
since 1967.
- JOSEPH M. FERLANTO, LL.B., A.M. ----- Assistant Professor of
LL.B., St. John's University (Law); A.M., History
New Mexico State University. At More-
head since 1967.
- KAREN L. FERLANTO, A.B. ----- Instructor of Educa-
A.B., College of William and Mary. At tion, Supervising
Morehead since 1967. Teacher
- JOHN E. FERLING, A.B., A.M. ----- Assistant Professor of
A.B., Sam Houston State College; A.M., History
Baylor University. At Morehead since
1965.
- NEVILLE W. FINCEL, A.B., A.M. ----- Associate Professor of
A.B., A.M., University of Kentucky. At Economics
Morehead since 1930.
- DONALD F. FLATT, A.B., A.M. ----- Assistant Professor of
A.B., A.M., Morehead State University. At History
Morehead since 1962.
- JOHN K. FOLMAR, A.B., A.M. ----- Assistant Professor of
A.B., Samford University (Alabama); History
A.M., Birmingham-Southern College. At
Morehead since 1966.
- THERESA S. FRED, A.B., A.M. ----- Assistant Professor of
A.B., Youngstown (Ohio) University; Speech
A.M., University of Pittsburgh. At More-
head since 1967.
- E. GLENN FULBRIGHT, B.S., B.M., M.M., Ph.D. ----- Head of Department of
B.S., Abilene Christian College; B.M., Music and Professor
Northwestern University; M.M., Ph.D.,
Indiana University. At Morehead since
1960.

(°Leave of absence 1967-68)

- HELEN F. FULBRIGHT, B.M.E., M.M. ----- *Instructor of Music*
B.M.E., Murray State University; M.M.,
American Conservatory of Music. At
Morehead since 1961.
- ALLEN R. GALLOWAY, A.B., M.B.A. ----- *Instructor of Business*
A.B., Bowling Green College of Com-
merce; M.B.A., Tulane University. At
Morehead since 1965.
- JOHN P. GARTIN, B.S., A.M. ----- *Associate Professor of*
B.S., A.M., Morehead State University. *Geography*
At Morehead since 1959.
- AIRYE GINZBURG, A.B., A.M. ----- *Instructor of*
A.B., A.M., University of Indiana. At *Economics*
Morehead since 1966.
- HENRY GLOVER, A.B., A.M. ----- *Head of Department of*
A.B., A.M., Morehead State University. *Art and Associate*
At Morehead since 1965. *Professor*
- ALLAN S. GNAGY, A.B., B.D., A.M. ----- *Assistant Professor of*
A.B., Occidental College (California); *Philosophy*
B.D., San Francisco Theological Seminary;
A.M., University of New Mexico. At More-
head since 1966.
- ROBERT B. GOULD, B.S., A.M. ----- *Assistant Professor of*
B.S., University of Tennessee; A.M., Mem- *Geography*
phis (Tenn.) State University. At More-
head since 1963.
- OCTAVIA W. GRAVES, A.B., A.M. ----- *Associate Professor of*
A.B., Morehead State University; A.M., *Education*
George Peabody College. At Morehead
since 1946.
- MARTIN A. GREENMAN, A.B., Ph.D. ----- *Professor of Philosophy*
A.B., Ph.D., University of Chicago. At
Morehead since 1964.
- LAWRENCE E. GRIESINGER, A.B., M.Ed., Ed.D. ----- *Director of Student*
A.B., M.Ed., University of Kentucky; *Teaching and Asso-*
Ed.D., University of Cincinnati. At More- *ciate Professor of*
head since 1965. *Education*

- C. NELSON GROTE, B.S., M.Ed., Ed.D. ----- *Dean of the School of Applied Sciences and Technology and Professor of Applied Arts*
B.S., Eastern Illinois University; M.Ed., University of Missouri; Ed.D., University of Illinois. At Morehead since 1960.
- ROBERT L. HACKE, A.B., B.D., Ph.D. ----- *Assistant Professor of English*
A.B., University of Arizona; B.D., McCormick Theological Seminary (Illinois); Ph.D., University of St. Andrews (Scotland). At Morehead since 1967.
- CLYDE M. HACKLER, B.S., M.Ed. ----- *Assistant Professor of Industrial Education*
B.S., Eastern Kentucky State University; M.Ed., University of Illinois. At Morehead since 1961.
- OVAL B. HALL, B.S., A.M. ----- *Instructor of Education Supervising Teacher*
B.S., A.M., University of Kentucky. At Morehead since 1957.
- PALMER L. HALL, A.B., A.M., Ed.D. ----- *Director of Graduate Study in Education and Professor*
A.B., Tusculum College; A.M., Ed.D., University of Kentucky. At Morehead since 1957.
- JOHN JACOB HALLUM, B.S., A.M. ----- *Instructor of Health, Physical Education and Recreation, Assistant Football Coach*
B.S., Newberry College; A.M., Murray State University. At Morehead since 1968.
- BERNARD G. HAMILTON, A.B., A.M. ----- *Assistant Professor of German*
A.B., A.M., University of Mississippi. At Morehead since 1963.
- STEVE A. HAMILTON, A.B., A.M. ----- *Instructor in Health, Physical Education and Recreation*
A.B., A.M., Morehead State University. At Morehead since 1963.
- HARLEN LEE HAMM, A.B., A.M. ----- *Instructor of Speech and Dramatic Art*
A.B., Morehead State University; A.M., Bowling Green State University. At Morehead since 1965.
- *WILLIAM C. HAMPTON, A.B., A.M. ----- *Assistant Professor of English*
A.B., A.M., Harding College (Arkansas). At Morehead since 1959.

(*Leave of absence 1967-68)

- JACK HARBAUGH, B.S., M.Ed. ----- *Instructor of Health,
Physical Education
and Recreation,
Assistant Football
Coach*
B.S., M.Ed., Bowling Green State University. At Morehead since 1967.
- JACK F. HARRIS, A.A.S., B.F.A., M.F.A. ----- *Instructor of Art*
A.A.S., Rochester Institute of Technology;
B.F.A., M.F.A., San Francisco Art Institute. At Morehead since 1967.
- RONDAL D. HART, A.B., B.S., A.M. ----- *Director of Alumni
Relations, Instructor
of Industrial
Education*
A.B., B.S., A.M., Morehead State University. At Morehead since 1958.
- ROBERT V. HAWKINS, B.S., M.S., Ed.D. ----- *Associate Professor of
Music and Director
of Bands*
B.S., M.S., Indiana State University;
Ed.D., Columbia University. At Morehead since 1967.
- MARGARET B. HEASLIP, B.S., M.S., Ph.D. ----- *Professor of Biology*
B.S., M.S., Ph.D., Ohio State University.
At Morehead since 1955.
- FRANCES L. HELPHINSTINE, A. B., A.M. ----- *Instructor of Music*
A.B., A.M., Morehead State University.
At Morehead since 1966.
- W. EDMUND HICKS, A.B., A.M., Ph.D. ----- *Chairman of Division
of History and
Political Science and
Professor of History*
A.B., Alderson-Broadus College; A.M.,
University of Louisville; Ph.D., University
of Kentucky. At Morehead since 1966.
- DONLEY M. HILL, B.S., A.M. ----- *Instructor of Biology*
B.S., A.M., Morehead State University. At
Morehead since 1965.
- JARVIS H. HILL, A.B., A.M., Ed.D. ----- *Dean of Graduate
Programs and Pro-
fessor of Education*
A.B., University of Tennessee; A.M.,
George Peabody College; Ed.D., Indiana
University. At Morehead since 1966.
- ERNEST E. HINSON, B.S., A.M. ----- *Assistant Professor of
Business*
B.S., Austin Peay State College; A.M.,
George Peabody College. At Morehead
since 1967.

- HARRY P. HOGE, B.S., M.S. ----- *Instructor of Geology*
B.S., M.S., Ohio University. At Morehead
since 1966.
- DONALD F. HOLLOWAY, A.B., A.M. ----- *Associate Professor of*
A.B., A.M., Morehead State University. At *Radio and*
Morehead since 1958. *Television*
- CHARLES L. HONEYWELL, B.S., A.M. ----- *Instructor of Industrial*
B.S., A.M., Western Michigan University. *Education*
At Morehead since 1967.
- *RAYMOND R. HORNBACK, A.B., A.M. ----- *Director of University*
A.B., A.M., University of Kentucky. At *Affairs and Instruc-*
Morehead since 1956. *tor of Journalism*
- NANCY R. HOUSE, B.S., M.S. ----- *Instructor of*
B.S., M.S., Arkansas State University. At *Mathematics*
Morehead since 1967.
- VICTOR B. HOWARD, A.B., A.M., Ph.D. ----- *Associate Professor of*
A.B., Morehead State University; A.M., *History*
George Peabody College; Ph.D., Ohio
State University. At Morehead since 1966.
- SUANNE J. HOWER, B.M., M.M. ----- *Instructor of Music*
B.M., Willamette University (Oregon);
M.M., University of Southern California.
At Morehead since 1966.
- WILLIAM E. HUANG, A.B., A.M., Ph.D. ----- *Associate Professor of*
A.B., St. John's University (China); A.M., *Political Science*
Ph.D., University of Michigan. At More-
head since 1966.
- CHARLES E. HUFFMAN, B.S., M.S. ----- *Assistant Professor of*
B.S., M.S., Western Michigan University. *Industrial Education*
At Morehead since 1967.
- KEITH M. HUFFMAN, A.B., A.M. ----- *Associate Professor of*
A.B., Morehead State University; A.M., *Music*
University of Iowa. At Morehead since
1947.

(*Leave of absence 1966-68)

- DAVID K. HYLBERT, B.S., M.S. ----- Assistant Professor of
B.S., M.S., Ohio University. At Morehead Geology
since 1963.
- BERNICE H. JACKSON, A.B., A.M. ----- Assistant Professor of
A.B., A.M., Morehead State University. Education,
At Morehead 1959 to 1962 and since 1963. Supervising Teacher
- CRAYTON T. JACKSON, A.B., A.M. Ed.D. ----- Professor of Science
A.B., Morehead State University; A.M., Education
University of Kentucky; Ed.D., Cornell
University. At Morehead 1958 to 1962
and since 1963.
- CLYDE I. JAMES, B.S., M.S. ----- Instructor of Business
B.S., Morehead State University; M.S.,
Indiana University. At Morehead since
1967.
- *CHARLES J. JENKINS, B.S., M.S. ----- Associate Professor of
B.S., M.S., Alabama Polytechnic Institute. Chemistry
At Morehead since 1959.
(*Leave of absence 1965-68)
- *ANNA JO JOHNSON, A.B., A.M. ----- Instructor of English
A.B., Western Kentucky State University;
A.M., Peabody College. At Morehead since
1965.
(*Leave of absence 1967-68)
- JAMES S. JOHNSON, B.S., A.M., Ed.D. ----- Associate Professor of
B.S., A.M., Western Kentucky State Uni- Education
versity; Ed.D., Peabody College. At
Morehead since 1965.
- CHARLIE L. JONES, A.B., A.M. ----- Assistant Professor of
A.B., A.M., Morehead State University. At Education,
Morehead since 1962. Supervising Teacher
- *ROGER H. JONES, A.B., A.M. ----- Director of Professional
A.B., Georgetown (Kentucky) College; Relations and
A.M., University of Kentucky. At More- Instructor of Art
head since 1965.
(*Leave of absence 2nd Sem. 1967-68)

- LARRY W. KEENAN, B.M., M.M. ----- *Instructor of Music*
B.M., University of Louisville; M.M.,
Indiana University. Morehead since 1967.
- WILLIAM D. KELLER, A.B., A.M., Ed.D. ----- *Head of Department of*
A.B., A.M., Peabody College; Ed.D.,
Colorado State College. At Morehead since
1965. *Business Education*
and Professor
- LAKE D. KELLY, B.S., A.M. ----- *Instructor of Health,*
B.S., Georgia Tech; A.M., Morehead State
College. At Morehead since 1965. *Physical Education*
and Recreation,
Assistant Basketball
Coach
- TERENCE E. KELSAY, A.B., A.M., B.D. ----- *Instructor of English*
A.B., A.M., Western Kentucky State Uni-
versity; B.D., Episcopal Theological Sem-
inary (Kentucky). At Morehead since
1966.
- CHARLES L. KINCER, B.S., M.S. ----- *Assistant Professor of*
B.S., Union College (Kentucky); M.S.,
University of Kentucky. At Morehead
since 1965. *Education*
- CLINTON KINGERY, A.B., A.M. ----- *Instructor of Health,*
A.B., Marshall University; A.M., Morehead
State University. At Morehead since 1967. *Physical Education*
and Recreation,
Wrestling Coach
- ELAINE R. KIRK, B.S., M.Ed. ----- *Coordinator of Educa-*
B.S., M.Ed., University of Louisville. At
Morehead since 1964. *tional Television*
and Instructor of
Education
- WAYNE A. LADENDORF, B.S., M.S. ----- *Instructor of Physics*
B.S., M.S., Northern Illinois University.
At Morehead since 1966.
- ALLEN L. LAKE, B.S., Ed.M. ----- *Associate Professor of*
B.S., Edinboro State Teachers College;
Ed.M., University of Buffalo. At More-
head since 1957. *Biology*
- WARREN C. LAPPIN, A.B., A.M., Ed.D. ----- *Vice President for*
A.B., Transylvania College; A.M., Uni-
versity of Chicago; Ed.D., Indiana Uni-
versity. At Morehead since 1923. *Academic Affairs*
and Dean of the
Faculty, Professor
of Education

JAMES LEE LATHAM, B.S., M.S., Ed.D. ----- *Professor of Education*
 B.S., M.S., Ed.D., North Texas State University. At Morehead since 1965.

ROBERT G. LAUGHLIN, A.B., A.M. ----- *Director of Athletics*
 A.B., Morehead State University; A.M., *and Professor of*
 University of Kentucky. At Morehead since *Health, Physical*
 1935. *Education and*
Recreation

OPAL H. LEMASTER, B.S., A.M. ----- *Instructor of Education*
 B.S., Concord College (West Virginia); *and Librarian of*
 A.M., Marshall University. At Morehead *Laboratory School*
 since 1965.

PERRY E. LEROY, A.B., A.M., Ph.D. ----- *Associate Professor*
 A.B., University of Connecticut; A.M., *of History*
 Ph.D., Ohio State University. At Morehead since 1961.

ARDYCE S. LIGHTNER, A.B., A.M., Ed.D. ----- *Associate Professor of*
 A.B., Nebraska State Teachers College; *Business*
 A.M., Ed.D., Colorado State College. At Morehead since 1967.

NOAH LOGAN, B.S., A.M. ----- *Instructor of Education, Supervising*
 B.S., A.M., Morehead State University. At *Teacher*
 Morehead since 1966.

*GEORGE M. LUCKEY, JR., A.B., A.M. ----- *Assistant Professor of*
 A.B., Murray (Kentucky) State College; *Philosophy*
 A.M., University of Kentucky. At Morehead since 1961.

(*Leave of absence 1966-68)

*SUE YOUNG LUCKEY, B.S., A.M. ----- *Assistant Professor of*
 B.S., East Tennessee State University; *Business*
 A.M., Appalachian State Teachers College.
 At Morehead since 1963.

(*Leave of absence 1967-68)

JENNINGS R. MACE, A.B., A.M. ----- *Instructor of English*
 A.B., University of Kentucky; A.M., Eastern Kentucky State University. At Morehead since 1967.

- WILLIAM J. MACK, A.B., A.M. ----- Assistant Professor of
A.B., Morehead State University; A.M., *Health, Physical Ed-
University of Kentucky. At Morehead u-
since 1957. cation and Recrea-
tion, Swimming
Coach*
- LOUIS S. MAGDA, A.B., Ph.D. ----- Associate Professor of
A.B., Ph.D., Jozsef Nadar University *Economics*
(Hungary). At Morehead since 1966.
- IRIS D. MAHAN, B.S., A.M. ----- Visiting Professor of
B.S., University of Georgia; A.M., Co- *Home Economics
lumbia University. At Morehead since and Director of the
1967. Palmer House*
- NELL F. MAHANEY, A.B., A.M. ----- Instructor of
A.B., A.M., Morehead State University. At *Mathematics*
Morehead since 1964.
- PAULA M. MALLORY, B.S. ----- Instructor of Home
B.S., University of Missouri. At Morehead *Economics and
since 1967. Dietician*
- FRANKLIN M. MANGRUM, A.B., Ph.D. ----- Head of Department of
A.B., Washington University; Ph.D., Uni- *Philosophy and
versity of Chicago. At Morehead since Professor*
1959.
- JAMES D. MANN, B.S., M.Math ----- Instructor of
B.S., Morehead State University; M.Math., *Mathematics*
University of South Carolina. At Morehead
since 1966.
- *JOSE M. MAORTUA, A.B., B.S. ----- Instructor of Art
A.B., B.S., El Rector de la Universidad
Central (Spain). At Morehead since 1965.
- DONALD L. MARTIN, B.S., M.S. ----- Associate Professor of
B.S., M.S., Southern Illinois University. *Geography*
At Morehead since 1957.
- JAMES M. MARTIN, B.S., M.M. ----- Instructor of Music
B.S., Pennsylvania State University; M.M.,
Indiana University. At Morehead since
1966.

(*Leave of absence 1967-68)

- JOSEPH M. MARTIN, B.M., M.M., M.M.Ed. ----- *Instructor of Music*
B.M., M.M., M.M.Ed., East Carolina Col-
lege. At Morehead since 1967.
- VESTA R. MARTIN, A.B., A.M. ----- *Instructor of*
A.B., A.M., Morehead State University. At *Geography*
Morehead since 1966.
- *HARRY C. MAYHEW, A.B., A.M. ----- *Instructor of English*
A.B., A.M., Morehead State University.
At Morehead since 1963.
- ELIZABETH E. MAYO, A.B., M.S. ----- *Associate Professor of*
A.B., Transylvania College; M.S., Uni- *Mathematics*
versity of Chicago. At Morehead since
1959.
- JESSE T. MAYS, A.B., A.M. ----- *Assistant Professor of*
A.B., Union College; A.M., George Pea- *Industrial Education*
body College. At Morehead since 1933.
- BETTIE W. MCCLASKEY, A.B., M.S. ----- *Assistant Professor of*
A.B., Centre College (Kentucky); M.S., *Home Economics*
University of Tennessee. At Morehead
since 1963.
- R. DONALD MILLER, A.B., A.M. ----- *Assistant Professor of*
A.B., A.M., Morehead State University. *Health, Physical*
At Morehead since 1966. *Education and*
Recreation
- RANDALL L. MILLER, B.S., A.M. ----- *Instructor of Mathe-*
B.S., Tennessee Wesleyan; A.M., Western *matics*
Kentucky State University. At Morehead
since 1966.
- TERRY H. MILLER, B.S.C. ----- *Instructor of Business*
B.S.C., Georgetown (Kentucky) College.
At Morehead since 1967.
- DIXIE M. MOORE, A.B., A.M. ----- *Assistant Professor of*
A.B., University of Kentucky; A.M., Mar- *Mathematics*
shall University (West Virginia). At
Morehead since 1963.

(*Leave of absence 1967-68)

- ETHEL J. MOORE, A.B., A.M. ----- *Assistant Professor of Latin*
A.B., Western Kentucky State University;
A.M., University of Kentucky. At Morehead since 1955.
- WILLIAM J. MOORE, A.B., A.M. ----- *Instructor of Business*
A.B., A.M., Morehead State University. At Morehead since 1966.
- EDWARD E. MORROW, A.B., A.M. ----- *Instructor of English*
A.B., A.M., Peabody College. At Morehead since 1961.
- OLGA MOURINO, A.B., Ed.D., Ph.D. ----- *Associate Professor of Spanish*
A.B., Instituto de Orienta (Cuba); Ed.D.,
Ph.D., Universidad de la Habana (Cuba).
At Morehead since 1963.
- FREDERICK A. MUELLER, B.M., M.M., D.Mus. ----- *Assistant Professor of Music*
B.M., University of Houston; M.M., Eastman School of Music, University of Rochester; D.Mus., Florida State University.
At Morehead since 1967.
- JAMES R. MURDOCK, A.B., A.M. ----- *Instructor of History*
A.B., A.M., Loyola University (Chicago),
A.M., Yale University. At Morehead since 1968.
- BILLY RAY NAIL, A.B., A.M., Ph.D. ----- *Head of the Department of Mathematics and Professor*
A.B., Hardin-Simmons (Texas) University;
A.M., Ph.D., University of Illinois. At Morehead since 1967.
- *EDWARD G. NASS, B.S., B.S.Ed., M.S.Ed. ----- *Instructor of Industrial Education*
B.S., B.S.Ed., M.S.Ed., Northwestern State College of Louisiana. At Morehead since 1963.
- ROBERT C. NEEDHAM, A.B., A.M., Ed.D. ----- *Associate Professor of Education*
A.B., Transylvania College, A.M., Morehead State University; Ed.D., University of Kentucky. At Morehead since 1961.

- MARY M. NETHERTON, A.B., A.M. ----- *Instructor of French*
 A.B., Western Kentucky State University;
 A.M., Morehead State University. At More-
 head since 1964.
- *ROBERT E. NEWTON, B.S., M.S. in Ed. ----- *Instructor of Industrial*
 B.S., M.S. in Ed., Southern Illinois Univer- *Education*
 sity. At Morehead since 1963.
 (*Leave of absence 1967-68)
- GORDON NOLEN, B.S., M.Math. ----- *Instructor of Mathe-*
 B.S., Morehead State University; M.Math., *matics*
 University of South Carolina. At More-
 head since 1967.
- HAZEL F. NOLLAU, B.S., M.S. ----- *Assistant Professor of*
 B.S., M.S., University of Kentucky. At *Education and*
 Morehead since 1943. *Supervising Teacher*
- MORRIS L. NORFLEET, B.S., M.S., Ph.D. ----- *Director of Research*
 B.S., University of Kentucky; M.S., Ph.D., *and Program De-*
 Purdue University. At Morehead since *velopment and Pro-*
 1962. *fessor of Education*
- JOHN R. NORMAN, A.B., A.M. ----- *Instructor of History*
 A.B., Maryville (Tennessee) College;
 A.M., University of Tennessee. At More-
 head since 1967.
- HELEN A. NORTHUTT, B.S., A.M. ----- *Assistant Director of*
 B.S., A.M., Morehead State University. *Testing and Instruc-*
 At Morehead since 1966. *tor of Business*
- *MARY P. NORTHUTT, A.B., A.M., Ed.D. ----- *Professor of Education*
 A.B., A.M., Morehead State University;
 Ed.D., George Peabody College. At More-
 head 1955 to 1960 and since 1964.
 (*Leave of absence 1st Sem. 1967-68)
- FRANCIS OSBORNE, A.B., M.S. ----- *Assistant Professor of*
 A.B., Cornell University; M.S., Syracuse *Psychology*
 University. At Morehead since 1967.
- GRETA GAY OSBORNE, A.B., A.M. ----- *Instructor of Health,*
 A.B., Morehead State University; A.M., *Physical Education*
 Ball State University. At Morehead since *and Recreation*
 1965.

- JAMES OSBORNE, A.B., A.M. ----- *Instructor of Health,
Physical Education
and Recreation*
A.B., A.M., Morehead State University. At
Morehead since 1967.
- BEN K. PATTON, A.B., A.M., Ph.D. ----- *Professor of Psychology*
A.B., Louisiana State University; A.M.,
University of Mississippi; Ph.D., Louisiana
State University. At Morehead since 1960.
- FLOY R. PATTON, B.S., M.S. ----- *Assistant Professor of*
B.S., M.S., University of Kentucky. At *Home Economics*
Morehead since 1967.
- MARGARET D. PATTON, A.B., A.M., M.S. ----- *Associate Professor of*
A.B., M.S., Louisiana State University; *Sociology*
A.M., University of Mississippi. At More-
head since 1960.
- CHARLES A. PAYNE, B.S., M.S., Ph.D. ----- *Chairman of Division*
B.S., M.S., Ph.D., Auburn University. At *of Physical Sciences*
Morehead since 1966. *and Professor of*
Chemistry
- ESSIE C. PAYNE, B.S., A.M. ----- *Instructor of English*
B.S., A.M., Auburn University. At More-
head since 1966.
- KARL A. PAYNE, B.M., M.M. ----- *Instructor of Music*
B.M., M.M., Indiana University. At More-
head since 1966.
- LAMAR B. PAYNE, B.S., M.S., Ph.D. ----- *Associate Professor of*
B.S., M.S., Auburn University; Ph.D., *Chemistry*
University of Alabama. At Morehead
since 1962.
- CHARLES PELFREY, A.B., A.M., Ph.D. ----- *Professor of English*
A.B., Morehead State University; A.M.,
Ph.D., University of Kentucky. At More-
head since 1962.
- GUY D. PENNY, B.S., A.M. ----- *Assistant Professor of*
B.S., A.M., University of Mississippi. At *Health, Physical*
Morehead since 1959. *Education and*
Recreation, Head
Football Coach

- FRED I. PETERSON, B.S., M.S. ----- *Instructor of Health,
Physical Education
and Recreation*
B.S., M.S., Northern Illinois University.
At Morehead since 1967.
- JOHN C. PHILLEY, B.S., M.S. ----- *Assistant Professor of
Geology*
B.S., Millsaps College (Mississippi); M.S.,
University of Tennessee. At Morehead
since 1960.
- MARVIN J. PHILLIPS, B.F.A., M.F.A. ----- *Assistant Professor of
Dramatic Art*
B.F.A., M.F.A., Carnegie Institute of Tech-
nology. At Morehead since 1967.
- TONEY C. PHILLIPS, A.B., A.M. ----- *Associate Professor of
Chemistry*
A.B., Athens (Alabama) College; A.M.,
George Peabody College. At Morehead
since 1951.
- ROSCOE H. PLAYFORTH, A.B., A.M., Ed.D. ----- *Dean of the School
of Social Sciences
and Professor of
Sociology*
A.B., Eastern Kentucky State University;
A.M., Ed.D. University of Kentucky. At
Morehead since 1957.
- MADISON E. PRYOR, A.B., B.S., A.M., Ph.D. ----- *Chairman of Division
of Biology and
Professor*
A.B., B.S., A.M., Morehead State Univer-
sity; Ph.D., University of Tennessee. At
Morehead since 1964.
- PAUL A. RAINES, B.S., A.M., Ph.D. ----- *Associate Professor of
Health, Physical
Education and
Recreation, Director
of the Program in
Health Education*
B.S., Seton Hall University (New Jersey);
A.M., Ph.D., University of Iowa. At More-
head since 1966.
- *CHARLES M. RAY, A.B., M.S. ----- *Assistant Professor of
Business*
A.B., Bowling Green College of Commerce
(Kentucky); M.S., Indiana University. At
Morehead since 1962.
- RICHARD M. RESER, A.B., A.M., Ph.D. ----- *Chairman of Division
of Economics and
Sociology and Pro-
fessor of Sociology*
A.B., King College; A.M., George Peabody
College; Ph.D., University of North Caro-
lina. At Morehead since 1967.

(*Leave of absence 1967-68)

- VIRGINIA H. RICE, B.S., M.S. ----- *Assistant Professor of*
 B.S., M.S., University of Kentucky. At *Education, Supervising Teacher*
 Morehead since 1947.
- ORBIE K. RIVERS, B.S. ----- *Instructor of Business*
 B.S., Morehead State University. At More-
 head since 1966.
- MEADE S. ROBERTS, B. Elec.Engr.; M.Ed. ----- *Instructor of Industrial*
 B.Elec.Engr., Ohio State University; *Education*
 M.Ed., University of Cincinnati. At More-
 head since 1966.
- NORMAN N. ROBERTS, B.S., M.S., Ph.D. ----- *Associate Professor of*
 B.S., Morehead State University; M.S., *Industrial Education*
 Stout State University (Wisconsin); Ph.D.,
 Ohio State. At Morehead since 1952.
- JAMES R. ROBINSON, A.B., A.M. ----- *Instructor of Geography*
 A.B., A.M., Morehead State University.
 At Morehead since 1965.
- GLENN C. ROGERS, A.B., A.M. ----- *Instructor of English*
 A.B., Centre College (Kentucky); A.M.,
 University of Kentucky. At Morehead
 since 1967.
- JUDY R. ROGERS, A.B., A.M. ----- *Instructor of English*
 A.B., Centre College (Kentucky); A.M.,
 University of North Carolina. At More-
 head since 1967.
- LAYLA B. SABIE, A.B., A.M. ----- *Assistant Professor of*
 A.B., American University of Beirut *Sociology*
 (Lebanon); A.M., George Peabody Col-
 lege. At Morehead since 1965.
- MOHAMMED SABIE, B.S., A.M., Ed.D. ----- *Professor of Health,*
 B.S., Florida Southern College; A.M., *Physical Education*
 Ed.D., Peabody College. At Morehead *and Recreation,*
 since 1964. *Soccer Coach*
- ELIZABETH W. SADLER, A.B., A.M. ----- *Instructor of Education,*
 A.B., A.M., Western Kentucky State Uni- *Supervising Teacher*
 versity. At Morehead since 1966.

- GEORGE A. SADLER, B.S., M.E. ----- Assistant Professor of
B.S., M.E., Western Kentucky State Uni- Health, Physical
versity. At Morehead since 1966. Education and
Recreation
- WILLA G. SANDERS, A.B., A.M. ----- Instructor of Health,
A.B., A.M., Morehead State University. Physical Education
At Morehead since 1966. and Recreation
- DAVID JOE SAXON, B.S. ----- Assistant Instructor
B.S., Morehead State University. At More- of Biology
head since 1966.
- JOYCE F. SAXON, A.B., A.M. ----- Instructor of Education,
A.B., A.M., Morehead State University. Supervising Teacher
At Morehead since 1965.
- ROBERT J. SCHIETROMA, B.S. in Mus., A.M. ----- Instructor of Education,
B.S. in Mus., Indiana (Pa.) University; Supervising Teacher
A.M., Morehead State University. At
Morehead since 1966.
- CHRISTIAN F. SCHLEGEL, B.S., M.B.A. ----- Assistant Professor of
B.S., M.B.A., University of Kentucky. At Business
Morehead since 1967.
- *HOWARD LEE SETSER, B.S., A.M., M.S. ----- Assistant Professor of
B.S., A.M., Morehead State University; Biology
M.S., Kansas State Teachers College. At
Morehead since 1964.
- JO ANN SETSER, A.B., A.M. ----- Instructor of Education
A.B., A.M., Morehead State University. At Supervising Teacher
Morehead since 1965.
- VIOLET C. SEVERY, B.M., M.M. ----- Assistant Professor of
B.M., M.M., University of Redlands (Calif- Music
ornia). At Morehead since 1956.
- WILLIAM C. SIMPSON, A.B., M.S., Ph.D. ----- Dean of the School
A.B., Mercer University (Georgia); M.S., of Sciences and
University of Kentucky; Ph.D., University Mathematics and
of Virginia. At Morehead since 1966. Professor of Physics

(*Leave of absence 1967-68)

- *CLAY VAN SINK, B.S., M.S. ----- *Instructor of Business*
 B.S., Pfeiffer College (North Carolina);
 M.S., University of Tennessee. At More-
 head since 1964.
- ERA MAE SMELLEY, B.S., A.M. ----- *Assistant Professor of*
 B.S., A.M., Stephen F. Austin State Col- *Education, Supervising*
 lege. At Morehead since 1948. *Teacher*
- MARCIA SMITH, A.B. ----- *Instructor of Education,*
 A.B., Morehead State University. At More- *Supervising Teacher*
 head since 1967.
- WALTER C. SMITH, A.B., A.M. ----- *Instructor of English*
 A.B., A.M., Peabody College. At More-
 head since 1967.
- JEAN K. SNYDER, B.S., M.S., Ph.D. ----- *Head of Department*
 B.S., Penn State University; M.S., Cornell *of Home Economics*
 University; Ph.D., Florida State University. *and Associate*
 At Morehead since 1966. *Professor*
- LUCY E. SPICELAND, B.S., A.M. ----- *Instructor of Business*
 B.S., A.M., Murray State University. At
 Morehead since 1965.
- JOHN D. STANLEY, B.S., M.S. ----- *Associate Professor of*
 B.S., M.S., Mississippi State College. At *Education*
 Morehead since 1964.
- JOHN K. STETLER, B.M., M.M. ----- *Associate Professor of*
 B.M., Cincinnati Conservatory of Music; *Music*
 M.M., University of Wichita. At More-
 head since 1959.
- LUCRETIA M. STETLER, B.M. ----- *Instructor of Music*
 B.M., Wichita (Kansas) State University.
 At Morehead since 1964.
- LAWRENCE R. STEWART, A.B., A.M., Ed.M., Ed.D. --- *Professor of Education*
 A.B., Morehead State University; A.M.,
 Marshall University (West Virginia);
 Ed.M., Ed.D., George Peabody College.
 At Morehead since 1958.

(*Leave of absence 1966-68)

- LESTON STEWART, A.B., A.M. ----- *Instructor of Health,
Physical Education
and Recreation,
Baseball Coach*
A.B., A.M., Morehead State University. At
Morehead since 1967.
- STELLAROSE M. STEWART, A.B., A.M. ----- *Instructor of Education,
Supervising Teacher*
A.B., Morehead State University; A.M.,
University of Kentucky. At Morehead since
1960.
- JAMES A. STILL, A.B., A.M. ----- *Associate Professor of
English and Writer-
in-Residence*
A.B., Lincoln Memorial University; A.M.,
Vanderbilt University. At Morehead since
1963.
- MAURICE STRIDER, A.B., A.M. ----- *Assistant Professor of
Art*
A.B., Fisk University (Tennessee); A.M.,
University of Kentucky. At Morehead since
1966.
- NORMAN TANT, B.S., A.M., Ph.D. ----- *Director of Instruc-
tional Media and
Professor of
Education*
B.S., State Teachers College (Jacksonville,
Alabama); A.M., Ph.D., George Peabody
College. At Morehead since 1952.
- EDWARD L. TAYLOR, B.P.A., A.B., A.M. ----- *Instructor of Art*
B.P.A., Art Center College of Design;
A.B., A.M., Morehead State University.
At Morehead since 1965.
- M. K. THOMAS, A.B., B. of Div., A.M., M.Th., Ed.D. ----- *Professor of English*
A.B., Travancore University (India); B.
of Div., Senate of Serampore College;
M.Th., Princeton Theological Seminary;
A.M., Morehead State University; M.Th.,
Ed.D., Tulsa University (Oklahoma). At
Morehead since 1964.
- BILLY E. THOMPSON, B.S., A.M. ----- *Instructor of Business*
B.S., Belmont College (Nashville, Ten-
nessee); A.M., Peabody College. At More-
head since 1967.
- *CHARLES B. THOMPSON, B.S., M.S. ----- *Assistant Professor of
Health, Physical
Education and
Recreation*
B.S., M.S., University of Tennessee. At
Morehead since 1963.

(*Leave of absence 1966-68)

- EMMA C. TROXEL, A.B., A.M. ----- Assistant Professor of
A.B., Emory and Henry (Virginia) Col- English
lege; A.M., George Peabody College. At
Morehead since 1967.
- JAMES A. USZLER, A.B., A.M. ----- Instructor of Radio and
A.B., Marquette University (Wisconsin); Television
A.M., Indiana University. At Morehead
since 1967.
- KENNETH G. VANCE, A.B.J., A.M. in Com. ----- Instructor of Journalism
A.B.J., A.M. in Com., University of Ken-
tucky. At Morehead since 1967.
- VASILE J. VENETTOZZI, B.M., M.M. ----- Assistant Professor of
B.M., Baldwin-Wallace College (Ohio); Music
M.M., Eastman School of Music (New
York). At Morehead since 1966.
- VICTOR A. VENETTOZZI, A.B., A.M. ----- Associate Professor of
A.B., A.M., Eastern Kentucky State Uni- English
versity. At Morehead since 1960.
- LAJOS VINCZE, A.B., Ph.D. ----- Assistant Professor of
A.B., Lycee "E.Gojdu"; Ph.D., University Italian and Spanish
of Hungary. At Morehead since 1966.
- FREDERICK M. VOIGT, B.S., M.S., Ph.D. ----- Chairman of the
B.S., Eastern Illinois University; M.S., Division of Com-
Ph.D., Southern Illinois University. At munications and
Morehead since 1966. Associate Professor
of Speech
- KENNY L. WADE, B.S., M.S. ----- Instructor of Agricul-
B.S., M.S., University of Kentucky. At ture
Morehead since 1967.
- BLANCHE J. WALTZ, B.S., A.M. ----- Assistant Professor of
B.S., University of Louisville; A.M., More- Education, Supervis-
head State University. At Morehead since ing Teacher
1953.
- NAN KARRICK WARD, A.B., A.M., Ed.D. ----- Assistant Professor of
A.B., A.M., Morehead State University; Health, Physical
Ed.D., University of Kentucky. At More- Education and
head since 1960. Recreation, Director
of Physical Educa-
tion for Women

- JULIA D. WEBB, A.B., A.M. ----- *Assistant Professor of*
 A.B., Tennessee College; A.M., Columbia *Speech*
 University. At Morehead since 1964.
- ROBERT M. WELLS, A.B., A.M. ----- *Instructor of Health,*
 A.B., A.M., Morehead State University. At *Physical Education*
 Morehead since 1966. *and Recreation, Di-*
rector of Intramurals
- HAZEL H. WHITAKER, A.B., A.M. ----- *Director of Testing*
 A.B., A.M., Morehead State University; *and Associate Pro-*
 Spec. in Ed., University of Kentucky. At *fessor of Education*
 Morehead since 1950.
- MONROE WICKER, A.B., A.M. ----- *Director of School*
 A.B., Tusculum College; A.M., University *Relations and*
 of Kentucky. At Morehead since 1947. *Associate Professor*
of Education
- CLARICA WILLIAMS, A.B., B.S. in Lib. Sci., A.M. --- *Associate Professor of*
 A.B., Eastern Kentucky State University; *Library Science and*
 B.S., University of Kentucky; A.M., *Director of Library*
 George Peabody College. At Morehead *Science Program*
 since 1950.
- DWIGHT WILLIAMS, B.S., M.S., Ph.D. ----- *Associate Professor of*
 B.S., Ashland (Ohio) College; M.S., Ph.D. *Chemistry*
 University of Michigan. At Morehead
 since 1967.
- JACK E. WILSON, A.B., A.M. ----- *Assistant Professor of*
 A.B., Kentucky Christian College; A.M., *Speech*
 Kent State University (Ohio). At More-
 head since 1967.
- ROGER L. WILSON, A.B., A.M. ----- *Director of Student*
 A.B., Eastern Kentucky State University; *Affairs and Associate*
 A.M., University of Kentucky. At More- *Professor of*
 head since 1953. *Education*
- ROBERT H. WOLFE, B.S., M.S. ----- *Assistant Professor of*
 B.S., Berea College (Kentucky); M.S., *Agriculture*
 Virginia Polytechnic Institute. At More-
 head since 1967.
- K. DON WORSENCROFT, B.S., M.S. ----- *Assistant Professor of*
 B.S., M.S., Idaho State College; At More- *Physics*
 head since 1962.

- CLARK D. WOTHERSPOON, B.S., A.M., Ed.D. -----Associate Professor of
B.S., Texas Wesley; A.M., Texas Christian; *Education*
Ed.D., North Texas State University. At
Morehead since 1966.
- ROBERT G. WRIGHT, A.B., A.M. -----Assistant Professor of
A.B., Marshall University (West Virginia); *Health, Physical Ed-*
A.M., Morehead State University. At *ucation and Recrea-*
Morehead since 1965. *tion, Basketball*
Coach
- JOOST YFF, B.S.E., A.M., Ph.D. -----Associate Professor of
B.S.E., State College at Fitchburg (Mass.); *Education*
A.M., Ph.D., University of Maryland. At
Morehead since 1967.
- DONALD B. YOUNG, A.B., A.M. -----Assistant Professor of
A.B., A.M., Morehead State University. At *Art*
Morehead since 1967.
- *GEORGE T. YOUNG, A.B., A.M. -----Assistant Professor of
A.B., Centre College (Kentucky); A.M., *Political Science*
Teachers College, Columbia University. At
Morehead since 1932.
(*Leave of absence 1st Sem. 1967-68)

FACULTY EMERITI

- GABRIEL C. BANKS, A.B., B.D., A.M. -----Associate Professor of
A.B., Transylvania College, 1917; B.D., *English*
College of the Bible, 1921; A.M., Yale
University, 1924; Morehead State Univer-
sity 1936-1962.
- NAOMI CLAYPOOL, A.B., A.M. -----Associate Professor of
A.B., University of Kentucky, 1930; A.M., *Art, Head of the*
Teachers College, Columbia University, *Department*
1932. Morehead State University 1925-
1965.
- SAMUEL J. DENNEY, A.B., A.M. -----Assistant Professor of
A.B., University of Kentucky, 1928; A.M., *Education, Super-*
University of Kentucky, 1932. Morehead *vising Teacher of*
State University 1936-1965. *English*

- HENRY CLAY HAGGAN, B.S., M.S. ----- *Professor of Agriculture, Head of the Department*
 B.S., University of Kentucky, 1918; M.S., University of Kentucky, 1934. Morehead State University, 1923-1964.
- ANNA LAM HALE, B.S., A.M. ----- *Assistant Professor of Home Economics, Director of Home Management House*
 B.S., Western Kentucky University, 1929; A.M., University of Kentucky, 1955. Morehead State University, 1955-1967.
- INEZ FAITH HUMPHREY, A.B., A.M. ----- *Associate Professor of English*
 A.B., Eureka College, 1910; A.M., University of Chicago, 1927. Morehead State University, 1923-1951.
- AMY IRENE MOORE, B.S., A.M. ----- *Instructor in Education, Supervising Teacher of Mathematics*
 B.S., Kansas State Teachers College, 1917; A.M., University of Chicago, 1925; Morehead State University 1932 to 1957.
- PAUL C. OVERSTREET, A.B., M.S. ----- *Assistant Professor of Mathematics and Physics*
 A.B., Asbury College, 1913; M.S., University of Iowa, 1925; Morehead State University 1946-1962.
- ZELL S. WALTER, B.S., A.M., Ed.D. ----- *Professor of Education*
 B.S., Ohio Northern University, 1925; A.M., University of Chicago, 1932; Ed.D., University of Cincinnati, 1942; Morehead State University 1948-1966.
- ELLA O. WILKES, B.S., M.S. ----- *Associate Professor of Geography, Head of the Department*
 B.S., George Peabody College, 1924; M.S., University of Chicago, 1931; Morehead State University 1932-1962.

LIBRARY STAFF

- IONE M. CHAPMAN, A.B., A.M., B.S. in Lib. Sci. -- *Assistant Professor of Library Science, Librarian*
 A.B., University of Illinois; A.M., Columbia University; B.S., University of Illinois. At Morehead since 1946.
- FAYE BELCHER, A.B., A.M. ----- *Reference Librarian*
 A.B., A.M., University of Kentucky. At Morehead since 1965.
- LOIS R. BELCHER, A.B. ----- *Assistant Librarian in Materials Center*
 A.B., Morehead State University. At Morehead since 1967.

- MARGUERITE BISHOP, B.S., B.S. in Lib. Sci. ----- *Assistant Librarian*
B.S., Morehead State University; B.S. in
Lib. Sci., Columbia University. At More-
head since 1930.
- SANDRA BUSHOUSE, A.B. ----- *Assistant Librarian*
A.B., University of Michigan. At More-
head since 1966.
- L. DOROTHY CONLEY, A.B., A.M. ----- *Materials Center*
A.B., A.M., Morehead State University. At *Librarian*
Morehead since 1959.
- EDITH P. CONYERS, A.B., M.B.A. ----- *Cataloger*
A.B., Kentucky Wesleyan College; M.B.A.,
University of Kentucky. At Morehead
since 1963.
- MARGARET C. DAVIS, A.B. ----- *Assistant Cataloger*
A.B., Centre College. At Morehead since
1967.
- JUANITA J. HALL, A.B. ----- *Assistant Librarian*
A.B., Morehead State University. At More-
head since 1966.
- EUNICE I. HILL, B.S., A.M. ----- *Assistant Reference*
B.S., A.M., Morehead State University. At *Librarian*
Morehead since 1965.
- PAMELA MADDIX, A.B. ----- *Assistant Cataloger*
A.B., Morehead State University. At More-
head since 1967.
- SIBBIE PLAYFORTH, B.S., A.M. ----- *Assistant Librarian*
B.S., Union College; A.M., Morehead State
University. At Morehead since 1959.
- NORMA L. POWERS, A.B. ----- *Assistant Order*
A.B., Morehead State University. At More- *Librarian*
head since 1966.
- LINDA L. RAY, A.B. ----- *Assistant Librarian*
A.B., University of Kentucky. At More-
head since 1966.

- SARAH W. RESER, A.B., B.S. in Lib. Sci. -----Assistant Librarian
A.B., Judson College; B.S. in Lib. Sci.
George Peabody College. At Morehead
since 1967.
- MILDRED STANLEY, B.S.E., A.M. -----Assistant Librarian
B.S.E., Henderson State Teachers College;
A.M., Morehead State University. At
Morehead since 1965.
- MARGARET STONE, A.B., M.S. in Lib. Sci. -----Circulation Librarian
A.B., Morehead State University; M.S.,
in Lib. Sci., University of Kentucky. At
Morehead since 1965.
- GRACE P. WEST, A.B. -----Assistant Cataloger
A.B., Marshall University. At Morehead
since 1960.
- LAJEAN WIGGINS, B.S., M.S. in Lib. Sci. -----Circulation Librarian
B.S., Murray State University; M.S. in Lib.
Sci., University of Illinois. At Morehead
since 1967.
- LELA C. WILSON, B.S. -----Assistant Cataloger
B.S., University of Kentucky. At Morehead
since 1962.

COMMITTEES

- Faculty Organization*—Fincel, Bolin, Grote, Heaslip, Huffman, C. Jackson, Laughlin, Pelfrey, Playforth, Stewart.
- Administrative Council*—Doran, L. Cooper, Conyers, G. Fulbright, Gartin, Hall, Hornback, Lake, Lappin, McClure, Wicker, Wilson, President of the Student Council, President of the Senior Class.
- Coordinating Council*—Lappin, Cole, P. Davis, Dawson, J. E. Duncan, Grote, J. Hill, Playforth, Simpson.
- Undergraduate Curriculum and Instruction*—P. Davis, Adams, Back, Chaney, J. Hill, LeRoy, D. Martin, D. Moore, Pelfrey, Pryor, Roberts, and five students.

Graduate Council—J. Hill, Bigham, Bizzell, P. Davis, Derrickson, Hall, Heaslip, Hicks, Latham, Mangrum, C. Payne, Snyder.

Teacher Education—Dawson, M. Anderson, Flatt, H. Fulbright, Griesinger, Hackler, C. Jackson, Jones, Ward.

Honors Program—P. Davis, Mangrum, Cain, Ferling, Mayo, Williams.

Student Life—Wilson, E. Anderson, Banks, Black, Crager, Flatt, Mack, R. Miller, Riggle, V. Venettozzi, and six students.

Library—Cole, Beane, Bell, Chapman, Howard, Lake, Northcutt, and three students.

Athletics—Playforth, P. Davis, Day, Fair, Lappin, Laughlin, McClure, Rice, and two students.

Admissions—J. R. Duncan, Cole, Wicker, Wilson.

Faculty Research—Brumagen, Cain, Derrickson, Ginzburg, Howard, C. Payne, M. Sabie, Thomas, Voigt, Yff.

Public Affairs—Hornback, R. Chaney, Cole, J. R. Duncan, Hart, Holloway, R. Jones, Wicker, Editor of the *Raconteur*, and Editor of the *Trail Blazer*.

Aims and Objectives of the University

The programs at Morehead State University are founded upon certain fundamental beliefs concerning the components of adequate offerings at the university level. Among these beliefs are:

1. A sound basic education should be available to all university students and this core of learning should be included in all programs regardless of the ultimate student objective.
2. Each student should develop particular proficiency in some area of subject matter.
3. Such other experiences should be provided as will assure the development of the individual student into a useful and effective member of a democratic society.
4. Each student should be provided with the most accurate information possible concerning his capabilities and the opportunities available to him.
5. In meeting its obligation as a teacher preparing institution the University must see to it that those students who show unusual promise are encouraged to enter the teaching profession, and conversely that those who do not have the desired potential are guided into preparation programs more suitable for them.
6. Morehead State University is committed to the idea that, in addition to the prerequisites of a sound basic education and subject-matter mastery, the successful teacher must be effective in the use of classroom and teaching techniques and be a student of the ways in which learners grow and progress.
7. The University subscribes to the belief that the teaching profession is second to none in the service it renders to society, and that the highest standards of professional behavior should be an integral portion of the training program provided for those who are to practice the art of teaching in the schools.
8. In fulfilling her position of leadership Morehead State University is concerned with the improvement of her service area by developing leaders in all phases of community life, by providing consultive service to the schools of the area, by contributing to the upgrading of school personnel, by serving as an avenue of communication for groups concerned with community development and by taking the programs and personnel of the University to the communities of the area in any way that offers promise of mutual value.

9. As an extension of undergraduate work, particularly in the direction of specialization, general education and research, a fifth year of training is available for holders of the bachelor's degree who are able to meet the requirements of the graduate school.

Specifically the goals of the graduate program are—

- a. Emphasize the abilities to read and think critically—judge values and limitations.
- b. Improve the skills required for clear and concise expression—correct and coherent exposition.
- c. Familiarize the student with the basic principles and techniques of research as well as the recognized forms for reporting research findings.
- d. Develop the ability to recognize problems and improve the facility for gathering data, organizing these data, and reporting logical results and conclusions.
- e. Encourage creative thinking, initiative, resourcefulness and responsibility on the part of the student.
- f. Strengthen the undergraduate preparation, particularly in those areas in which the student may be weak.
- g. Broaden the student's general education.
- h. Develop an awareness, and stress the significance, of current knowledge and developments—the importance of being an informed person.

General Information

HISTORY

The Morehead State Normal School was established in 1922 when the General Assembly of Kentucky passed an act providing for the opening of two normal schools, one in eastern Kentucky and the other in western Kentucky. These schools were to be created for the purpose of training elementary teachers. Morehead was selected as the site for one of these institutions.

Since its establishment, the title of the school has been changed four times. In 1926 it became Morehead State Normal School and Teachers College; in 1930, Morehead State Teachers College; in 1948 Morehead State College; and in 1966 Morehead State University. The University has not lost sight of its original function—that of training teachers. However, through the years it has expanded its facilities and offerings until it is now serving as a general regional university.

LOCATION

Morehead State University is located in Morehead, Rowan County, midway between Lexington and Ashland. It is reached by the Chesapeake and Ohio Railroad, United States Highway 60, better known as the Midland Trail, and State Highway 32. It is the most accessible Kentucky institution of higher learning for the people of the Big Sandy and Licking River Valleys, and the Ohio Valley section from Ashland to Cincinnati. It is within easy reach of the people of both the Cumberland and the Kentucky River valleys.

The campus comprises an area of four hundred and twenty-two acres. The lawns are terraced and face on a boulevard which traverses the entire length of the campus. This setting is of unsurpassed natural beauty. The healthful climate and the unusually cool summer nights are additional attractions. The campus, as well as the surrounding country, offers much of interest to students, particularly those studying the natural sciences.

RADER HALL

Erected in 1926, this three-story structure was the first building to be constructed on the campus. Originally, it served as a combination administration and classroom building. Currently, it houses the School of Social Sciences and a portion of the facilities of the School of Education. In 1965, the building was named in honor of Dr. Clifford Rader who was a member of the faculty for seventeen years and, at the time of his death, was Chairman of the Division of Social Science.

ALLIE YOUNG HALL

This women's residence hall was built in 1926 and has 68 rooms, a director's apartment, and a large lobby. The building was named for Judge Allie W. Young, to whom goes much of the credit for establishment of the University in Morehead.

FIELDS HALL

A women's residence hall, this structure has 80 rooms, a director's apartment, and a 20-bed infirmary located on the ground floor. The building, completed in 1927, was named in honor of Mrs. William Jason Fields, wife of a governor and the first woman appointed to the Board of Regents.

THOMPSON HALL

This 82-room women's residence hall was first occupied in 1927 and was named for J. H. Thompson who served as speaker of the House of Representatives at the time the bill was passed which authorized the establishment of the University.

PRESIDENT'S HOME

The president's home is a dignified brick residence which stands on a terraced lawn on the southwest corner of the campus. Built in 1929, the residence is equipped and furnished in keeping with the importance and dignity of such a structure.

BUTTON AUDITORIUM

Named for Frank C. Button, first president of the University, this large structure features a 1,500 seat auditorium, a dramatic arts workshop and dressing rooms. An extensive renovation program

in 1968, involving the original gymnasium facilities of the institution, will provide quarters for the University's program in Military Science.

JOHNSON CAMDEN LIBRARY

This beautiful structure, built in 1931, was more than doubled in size in 1965 with an addition which greatly increased the book housing capacity as well as space for research and study. Conference rooms, study carrels, and single desks are special features. Located in the library are the James Still Room where this noted author has placed his manuscripts, a collection of his works, and his mementoes; a materials center which has a wide assortment of phonorecords, filmstrips, and numerous teaching aids; and specialized equipment including microfilm readers, microcard readers, a microfiche reader-printer, and two coin-operated photographic machines. The air-conditioned building was named for Johnson Camden, a former United States Senator.

UNIVERSITY BRECKINRIDGE SCHOOL

Completed in 1931, the University Breckinridge School houses a program extending from the kindergarten through the high school, including a special education unit, and serves as the campus laboratory school. The building was named for Robert J. Breckinridge, the sixth Superintendent of Public Instruction of the Commonwealth. A three-story addition, completed in 1966, has greatly expanded the school's facilities. These include a television production area, a modern library, a cafeteria, and additional classrooms.

SENFF NATATORIUM

This building, located west of Button Auditorium, contains a ninety-foot by thirty-foot swimming pool, a spectator's gallery, and dressing and shower facilities and was completed in 1932. It was named for Judge Earl Senff, a former member of the Board of Regents.

LAPPIN HALL

A four-story structure, this building houses the School of Sciences and Mathematics. Completed in 1937, the building was named Lappin Hall in 1958, honoring Dr. Warren C. Lappin, Dean of the Faculty, who has served as a member of the faculty since 1923. An additional 48,000 square feet of space was provided with the completion, early in 1968, of a four-story addition to the building. All classrooms and laboratories are furnished with the most modern apparatus and equipment in the areas involved.

EAST MEN'S HALL

Containing 99 rooms and a director's apartment this four-story men's residence hall was completed in 1937. Since that time it has been completely redecorated and refurnished as have all the older residence halls.

BAIRD MUSIC HALL

The original Baird Music Hall was constructed in 1953, but a phenomenal growth in the music area has necessitated two additions to the building. The first, completed in 1963, more than doubled the size of the building to a three-story, completely air-conditioned structure. It contains offices, classrooms, practice and ensemble rooms, and a large rehearsal hall which seats 1,000 for recitals and concerts. The second addition, to be completed in 1968, will provide a two-story wing featuring a recital room, teachers' studios, and additional classrooms, practice facilities, and offices. The building was named for William Jesse Baird who died while serving as the fifth president of the University.

DORAN STUDENT HOUSE

Completed in 1957, the Doran Student House is the center of student activities on the campus. The building contains an air-conditioned cafeteria and grill; the bookstore and post office; director's apartment; club rooms and lounges; and recreation facilities. This modern building was named in honor of Dr. Adron Doran, the seventh president of the University.

WATERFIELD HALL

This 201-room structure contains a director's apartment, a large lobby, and the necessary auxiliary facilities to provide unusually attractive living quarters for male students. The building was completed in 1960 and was named for Harry Lee Waterfield, twice Lt. Governor of Kentucky.

LAKEWOOD TERRACE

This 118-unit addition to the campus provides living quarters for married students and faculty members at nominal rental charges. Completed in 1960, nine of the structures in Lakewood Terrace were named for the original eight members of the University faculty, and the Secretary to the President. They were: Charles D. Lewis, Henry C. Haggan, Charles O. Peratt, D. M. Holbrook, Inez Faith Humphrey, Evelyn Royalty, Emma Shader, Ruby Vansant, and Anna Carter.

BUTLER HALL

This residence hall, completed in 1961, houses 200 men. The building has a functional lobby and is connected by a passageway to East Men's Hall. It was named for Wendell P. Butler, who served two terms as Superintendent of Public Instruction and Chairman of the Board of Regents.

COMBS CLASSROOM BUILDING

The large, four-story Classroom Building, was completed in 1961 and named for Bert T. Combs, the 54th governor of Kentucky. The completely air-conditioned building houses the divisions of Languages and Literature, Business, Communications, and the Departments of Philosophy and Special Education. Also located in the building are numerous general classrooms, the language laboratory, the FM radio station, and the Little Theatre.

WILSON HALL

A 200-man residence hall, this four-story structure is completely air-conditioned and has a director's apartment, a spacious lobby, reception area, and study rooms. The structure was completed in 1962 and serves as an "honors" residence hall for male students. It was named for Roger L. Wilson, Dean of Students since 1953.

INDUSTRIAL ARTS AND HOME ECONOMICS BUILDING

Completed in 1962, the Industrial Arts and Home Economics Building contains the most modern equipment in these areas and is considered a model structure. The air-conditioned three-story building also houses the administrative offices of the School of Applied Sciences and Technology.

REGENTS HALL

This four-story men's residence hall houses 200 men in air-conditioned comfort. Named for the many dedicated individuals who have served on the Morehead State University Board of Regents, the hall was completed in 1963.

ADMINISTRATION BUILDING

This ultra-modern Administration Building was completed in 1963 and houses the offices of the President, and the deans and directors of university programs. The Business Office and the Registrar's Office are also located in this building. The three-level structure is air-conditioned and is located in the center of the campus.

BREATHITT SPORTS CENTER

Named for Kentucky's 55th Governor, Edward T. Breathitt, Jr., this splendid facility encompasses 15 acres nestled against the foothills of the Cumberland Mountains. The 10,000 seat stadium provides more than ample space to view football games and track meets. The track is an eight-lane grasstex track which circles the football field. Also located in the Breathitt Sports Center is a baseball field, a practice football field, a soccer field and tennis courts. It was completed in 1964.

PALMER HOUSE

This structure serves as a laboratory in homemaking for the students in home economics with all majors in home economics required to complete a period of residence in the home. An attractive, modern residence, the home was purchased in 1964. The building was named for the late John Palmer.

MAINTENANCE AND SERVICE BUILDING

This structure, located near the eastern boundary of the campus, contains over 15,000 square feet of storage and work space for the Buildings and Grounds Department. It greatly facilitates the maintenance operations as well as receiving and shipping of materials and was completed in 1965.

COOPER HALL

Completed in 1966, this four-story residence hall houses 202 men. It is named in honor of the Honorable John Sherman Cooper, senior United States Senator from the Commonwealth of Kentucky.

NORMAL HALL

Completed and occupied in the summer of 1967, four-story Normal Hall houses married student couples in 41 air-conditioned apartments. The building was named in honor of Mrs. Phoebe Phelps Button and those associated with her in the founding of the Morehead Normal School in 1887.

ROBERT LAUGHLIN HEALTH BUILDING AND GYMNASIUM

The first unit of this building was completed in 1957 and consists of a playing floor which has a spectator seating capacity of 5,000 and is used for all basketball games, commencement exercises, con-

certs, regional meetings, and all-student convocations. The second unit, completed in 1967, provides an additional 97,000 square feet of floor space and modern facilities for the health, physical education, and recreation programs of the University. The facilities include a multi-purpose room large enough to accommodate four, regulation-size basketball courts; handball courts; eight bowling lanes equipped with automatic pin setters; a wrestling room; mirrored dance studio; dressing rooms; sonar bath; and athletic department offices. The building was named for Robert Laughlin, Director of Athletics and for many years a football and basketball coach at the University.

MIGNON COMPLEX

Completed with the occupancy of magnificent Mignon Tower in the fall of 1967, the Mignon Complex consists of four residence halls for women, each named in honor of Mrs. Adron Doran, wife of the University's seventh president. Housed in the four air-conditioned buildings are 1,050 women in suites of four girls each. The spacious suites each have a study room, sleeping room and private bath. Each unit also has a director's apartment. Constructed at a total cost exceeding \$4,500,000, the Complex dominates the entire campus from a hillside to the north and consists of:

MIGNON HALL—A six-story residence hall housing 300 women, the first of the Complex buildings completed. Occupied in 1963, it has a large patio, sundeck and lounge.

WEST MIGNON HALL—A five-story residence hall housing 300 women, this unit was completed in 1964.

EAST MIGNON HALL—Six stories, this residence hall was occupied in the spring of 1966 and houses 250 women.

MIGNON TOWER—A 16-story, cylindrical residence hall, this unit has become the symbol of Morehead State University. Its occupancy in the fall of 1967 marked completion of the Complex project, and formal dedication ceremonies were held November 19 of that year. It houses 300 co-eds in 75 suites and features a scenic lounge and sundeck at its top.

ALUMNI TOWER

This 10-story, air-conditioned residence hall houses 400 men. Occupied with the 1967 fall semester, it also houses the University's second cafeteria, which has a capacity for 500 and features a large formal dining area. The sixth men's residence hall to be constructed on the campus, the building was formally named and dedicated to the University's alumni during Homecoming Weekend, October 6-7, 1967.

ATHLETIC DORMITORY

This tri-level, two-story residence hall houses the University's athletes. Its 34 modern, four-man, carpeted suites, house 136 men. Completed and occupied in the fall of 1967, it is located on a hillside overlooking Breathitt Sports Center.

ART BUILDING

Completed in the spring of 1968, this modern, three-story structure features a three-level gallery and also includes two outside sculpture courts, a rooftop sketching deck, a visual presentation room seating 150, and skylighted studios. It is one of the most modern buildings of its kind in the country.

EDUCATION AND GRADUATE STUDIES BUILDING

Scheduled for completion in 1968, this modernly-equipped structure houses the School of Education, extensive audio-visual facilities, one of the state's area TV production studios, reading clinic, psychology laboratory, classrooms, and faculty offices. One section of the building rises nine stories above the campus, while the other wing is six stories high.

FACULTY HOUSING

Thirty housing units are available at a nominal rental fee for faculty members. Thirteen of these are modern duplexes, located on a hillside along Ward Oakes Drive overlooking the campus and providing quiet living quarters for faculty members. A complex of seventeen, three-bedroom houses was completed in 1967 less than half-a-mile from the campus and known as the Oxley Branch faculty houses.

TRAILER HOUSING

University-owned and supervised mobile-home housing facilities are available three miles east of the campus on U. S. Highway 60. Five two-bedroom trailer homes are owned by the University and rented for a nominal fee to faculty and staff members. Concrete parking pads also are available for fourteen privately-owned trailers at a very nominal monthly rental fee. Water and sewage services are provided by the University with the renting part providing the electric services.

MOREHEAD STATE UNIVERSITY GOLF COURSE

Morehead State University owns and operates its own golf course. This nine-hole course is located four miles from the campus and is used by the golf classes and golf team. Students, faculty, staff, and their families are eligible to use the course upon payment of reasonable fees.

FUTURE GROWTH

Morehead State University is continuing its ambitious building and expansion program to meet the needs of a rapidly growing enrollment and to provide quality programs of instruction.

With construction starting early in 1968 on the first of a four-unit men's residence hall complex, another campus landmark begins to take shape. Nineteen stories high, the first unit will house 512 men in air-conditioned comfort and is expected to be ready for occupancy in the fall of 1969.

Final plans also are complete and construction is expected to be starting in the near future to provide these additional campus facilities: A 400-bed residence hall for women, an addition to the Home Economics-Industrial Arts Building, enlargement of the Doran Student House, an Alumni House and a major renovation project at Rader Hall.



INFORMATION FOR STUDENTS

Admission

Regulations and Practices

Special Information for Freshmen

Auxiliary Services and Activities

Student Organizations



MOREHEAD STATE UNIVERSITY

Admission

PROCEDURE FOR ADMISSION

All correspondence concerning admissions should be addressed to the Director of Admissions, Morehead State University, Morehead, Kentucky.

REQUIREMENTS FOR ADMISSION

Admission to the Freshman Class:

Without Examination. Graduates of high schools accredited by the Kentucky State Board of Education are admitted without examination, provided that 15 of the units used for graduation are acceptable to Morehead. No specific courses are required for entrance, but not more than four of the 15 acceptable units may have been earned in one subject field. If credit in foreign language is offered for entrance, at least one unit in the language must have been completed.

An out-of-state student who is a graduate of an accredited high school will be granted admission to Morehead State University if his high school transcript shows that he has been graduated in the upper one-half of the senior class and has been recommended by a responsible school official as having educational promise.

An out-of-state student who has been graduated in the lower one-half of the senior class and has been recommended by a responsible school official as having educational promise, may file an application for admission to Morehead State University. Such students who wish to be considered for admission at the beginning of the fall semester *must* enroll in the preceding summer term and make not less than "C" on six hours of academic work which has been approved by the Dean of Undergraduate Programs and maintain an acceptable pattern of behavior. They will then be considered for admission at the beginning of the fall semester.

By Examination. High school students who have outstanding records and are within one unit of graduation may be admitted to the freshman class upon recommendation of the high school principal and successful completion of an entrance examination.

As a Special Student. Students 21 years of age or over, who do not meet the entrance requirements of the University may be admitted as special students. Special students are not considered as candi-

dates for any degree or certificate until they have fulfilled college entrance requirements or have completed 64 hours of approved residence work with a minimum standing of 2.5, as well as all other requirements for the degree or certificate in question.

Note. All students desiring admission as freshmen must have their credits certified by their high school principal or superintendent. These transcripts should be mailed directly to the Registrar by the person certifying them and must be on file prior to the time of registration.

Admission to Advanced Standing:

Students entering Morehead from other institutions must present a statement of honorable dismissal from the college or university attended previously and must satisfy the entrance requirements here. Official transcripts of college and high school credits must be on file in the Registrar's Office prior to the time of registration.

A student who is ineligible to return to the college or university from which he desires to transfer *may* be admitted on probation as a transfer provided his academic standing on the work done at the other institution is equal to or above the academic standing required of a student to remain at Morehead State University, provided, however, he is recommended for admission by the academic dean of the college or university from which he transfers and provided, further, that he is approved for admission by the Committee on Admissions of Morehead State University on the basis of a personal interview with the student and his parent or parents.

Any student who is accepted as a transfer to Morehead State University on probationary status, with three or more semesters in residence, must achieve an academic standing of 2.0 or above as a full-time student and maintain an acceptable pattern of behavior to be eligible to enroll for the succeeding semester.

Admission to the Teacher Education Program:

Students who wish to qualify for a teaching certificate apply for admission to the Teacher Education Program during the second semester of the sophomore year. The Committee on Teacher Education acts upon these applications on the basis of standardized tests that may have been given, accomplishment of the student in his college program, recommendations of teachers and advisers, and personal interview. Students must be admitted to the Teacher Education Program before they can register for professional courses leading to the teaching degree. (See p. 201 for the listing of these courses.)

Students transferring to Morehead are required to meet the same standards for admission to the Teacher Education Program as the regular Morehead Students.

Admission as an Auditor:

By payment of the required fees, admission may be secured to a class or classes as an auditor. An individual desiring such admission must apply to the Dean of Undergraduate Programs. No credit will be given for this work, nor will the student be permitted to take an examination for credit.

Admission to Graduate Study:

Regulations governing admission to the graduate school are explained in detail on page 113 of this catalog.

Periodicals Department
Johnson Camden Library
Morehead State University

Regulations and Practices

WHAT TO BRING

Students expecting to room in the dormitories should bring the following articles: laundry bag, a pair of blankets, and necessary toilet articles including towels. The University provides pillow cases, sheets and bedspreads and has them laundered.

PHYSICAL EXAMINATION

Each student entering Morehead for the first time is required to have a medical examination by his local or family physician prior to admission. Each student sends the report of this examination, on a form supplied by the University, to the Dean of Students prior to entrance.

RESERVING ROOMS IN DORMITORIES

Anyone desiring a room in one of the University dormitories should write the Director of Housing and enclose \$50.00 to secure a reservation. This should be done as far in advance of August 1 as possible. Forty-three dollars of this amount is applied on the room rent for one semester. The balance of \$7.00 is a room deposit and will be refunded at the time the student checks out of the dormitory provided no damage has been done to the room or furnishings. After making this deposit, a student desiring to cancel his reservation may do so by notifying the Director of Housing by August 15 and the entire deposit will be returned. *No part of the deposit will be returned if such notification is not made by August 15.*

It is advisable for prospective students to reserve rooms at the earliest possible date.

All assignments to dormitories are made by the Director of Housing and room assignments are not completed until satisfactory arrangements for all University expenses are made with the Office of Business Affairs.

DORMITORY LIFE

Students living in the dormitories are expected to care for their rooms, and keep them clean, orderly, and presentable at all times. The University endeavors to make it possible for students to live in a wholesome atmosphere under good living conditions. The same

conduct is expected from each student as would be expected of him or her in a refined private home.

The University reserves the right to inspect all rooms at any time and for any purpose and students availing themselves of these rooms accept this condition.

OPENING AND CLOSING OF DORMITORIES

Students are expected to arrive on the campus on or after the official opening time of the dormitories. If it is necessary to arrive before this official opening time, necessary arrangements should be made with the director of the dormitory involved.

Official closing time for the dormitories will be published several weeks in advance of holidays and the end of semesters. Students who find that they must remain on the campus after the official closing time should arrange with the dormitory head for whatever special concessions may be necessary.

RULES CONCERNING STUDENTS RESIDING IN PRIVATE HOMES

All full-time students are expected to live on the campus unless they are granted permission by the Dean of Students to live elsewhere.

All students, not living in their own homes, whether residing in the dormitories, or in private homes or rooming houses, are subject to the regulations, control, and supervision of the University.

Students not residing in the dormitories are required to register their addresses with the Dean of Students prior to the day of registration and any student changing his address during a term must arrange for the change in advance with the Dean of Students and report the change to the Registrar.

Students living off-campus will make their own financial arrangements with regard to living expenses.

HOUSING FOR MARRIED COUPLES

The University maintains housing for married couples and apartments are available on the campus for families with children.

There are places in the community where light housekeeping can be done. These may be rented furnished or unfurnished. Prospective students desiring such rooming facilities off the campus are advised to communicate with the Director of Housing in advance of their arrival, so that the best possible arrangements can be made.

BOARDING FACILITIES

Dining facilities are provided in the University cafeterias and grill.

Light housekeeping is not permitted in dormitory rooms. Any student violating this rule will be asked to leave his or her room and no room rent will be refunded.

LATE ENTRANCE

Students entering after the regular enrollment date will be placed on a reduced schedule. A late enrollment fee of \$3.00 per day will be charged all students who do not register on the day set aside for the purpose.

CHANGE IN SCHEDULE

The student's schedule cannot be changed after registration except by permission of the Dean of School and the Dean of Undergraduate Programs.

A fee of \$2.00 will be charged for each change in the schedule made at the student's request after the date provided in the school calendar.

STUDENT LOAD

The minimum amount of work that a full-time student may carry each semester is 12 hours; the maximum amount is 17 semester hours except as follows:

A student may schedule a maximum of 18 semester hours with the permission of the Dean of Undergraduate Programs; a student who has earned a quality point standing of 3.25 during the previous term may schedule not to exceed 19 semester hours with the permission of the Dean of Undergraduate Programs; a student who has earned a quality-point standing of 3.35 during the previous term may schedule not to exceed 20 semester hours with the permission of the Dean of Undergraduate Programs; and a student who has earned a quality-point standing of 3.5 with no mark below B, during the previous year may schedule not to exceed 21 semester hours with the permission of the Dean of Undergraduate Programs.

An exception may be made to the regulations stated in the preceding paragraph when, in the senior year, a student needs not more than three semester hours in excess of his regular load to graduate. In this case, the student may be permitted to take, during

the year, not to exceed three semester hours more than his standing would normally permit, provided that the total load is not greater than 21 semester hours during any one semester.

The minimum student-load for a full-time graduate student is nine semester hours. The normal load for a graduate student is 15 hours.

During a summer term of eight weeks the student loads are one-half of the loads as defined for the regular semester.

THE MARKING SYSTEM

The evaluation of work done by undergraduate students will be indicated by letters as follows:

- A. The highest mark attainable.
- B. A mark above average.
- C. The average mark.
- D. The lowest passing mark.
- E. Failure. Course must be repeated in residence.
- I. Incomplete course.

(A course in which an "I" is received must be completed within the first thirty school days of the next term in residence, if credit is granted. Otherwise the mark automatically becomes an "E".)

(Graduate Students)

Marks are assigned to graduate students according to the following scale—

- A Superior *graduate* work
- B Average *graduate* work
- C Below average graduate work, counts as graduate credit
- D and E No graduate credit

THE NUMBERING OF COURSES

- 100-199 Freshman courses
- 200-299 Sophomore courses
- 300-399 Junior courses
- 400-499 Senior courses
- 500-599 Graduate courses
- 600-699 Special graduate courses

A minimum of 43 semester hours of work offered for a baccalaureate degree must be in courses numbered 300 or above.

300 and/or 400 courses with the letter "G" added may be taken for graduate credit by students who are qualified to do graduate work in the course involved. When enrolling for any of these courses, the student should check carefully with the Dean of Graduate Programs.

Courses numbered 500-599 may be taken only by graduate students.

Courses numbered 600-699 are used to indicate special graduate courses involving independent research.

SCHOLARSHIP POINTS

The mark of "A" carries 4 points; "B", 3 points; "C", 2 points; "D", 1 point; and "E", no points. A minimum average of "C", or standing of 2.00, must be maintained for any undergraduate degree or certificate. This minimum requirement for graduate students is an average of "B", or standing of 3.0.

HONORS

Honor Roll. At the close of each semester a list of honor students is released and publicized by the Registrar's Office. Students whose names appear on this list are given special consideration in making their class schedules, as well as in other appropriate ways, and are recognized in a special assembly program during the second semester.

To be eligible for the Honor Roll a student must—

1. Have carried a full-time load (at least 12 hours) of undergraduate work, and
2. Have earned a standing of 3.0 (average of B) for the term involved.

Graduation with Honors. Students who do outstanding academic work are graduated with honors. The honors are: *With Distinction* and *With High Distinction*.

To qualify for the baccalaureate degree with honors—

A student who has been in residence at Morehead for three years (a minimum of 108 weeks and 96 semester hours) must earn a quality-point standing of 3.40-3.59 to receive the degree *With Distinction*. To receive the degree *With High Distinction* the quality-point standing must be 3.60-4.0.

A student who has been in residence at Morehead for two years (a minimum of 72 weeks and 64 semester hours) may qualify for graduating with honors by earning a quality-point standing of .2 of a point higher than that required of students in residence at Morehead for three years.

Students who have been in residence at Morehead for less than two years are not eligible for the degree with honors.

When determining quality-point standing only work completed at Morehead is considered.

PRE-HONORS PROGRAM

Entering freshmen who demonstrate unusual proficiency, either through scores made on tests administered by the University Entrance Examination Board or on tests given by this university, may be granted credit and/or advanced placement on the recommendation of the department concerned and the Committee on Honors Programs.

HONORS PROGRAM

Admission to the program is granted on the basis of the high school record, the accomplishment on the freshman and sophomore tests, the grades made in college, and the opinions of instructors. Outstanding students are invited to participate in the program during their junior and senior years.

Eligible students transferring to Morehead with advanced standing may be considered for the program after one year of residence (36 weeks and 32 semester hours).

The student enters the program voluntarily and is permitted to remain in the program so long as he participates to the satisfaction of the Honors Committee and so long as he earns a minimum mark of "B" in all courses taken. (In the event that a student falls below the mark of "B" in a course, he may appeal to the Honors Committee for reconsideration.)

Each student in the program is assigned an individual adviser from the department or division in which he is doing his major work.

The Honors Student is permitted to enroll for any amount of work he cares to schedule but he is held to the general regulations concerning the dropping of courses.

Academic departments are authorized to modify the departmental content requirements for Honors Students, provided the minimum quantitative requirements for graduation and/or certification are observed. (This authorization means that the department may require different courses or may require a different type of experience for Honors Students.)

Honors Students enrolled in regular classes are permitted to attend classes as they choose but, in any event, they are expected to take all tests and examinations required of other students. If they choose to be irregular in class attendance, it is understood that when attending they are not to raise questions already given attention in the class. (This provision does not apply to courses in which participation in class activity constitutes the essential value of the course, e.g., applied music, activity courses in physical education, skill courses in business, etc.)

Students in the Honors Program are expected, under the guidance of their adviser or other member of the faculty who may be qualified for the particular assignment, to carry on significant portions of their work on an individual basis (other than the usual type of class activity). By this means these students are able to explore their own interests more extensively and pursue these interests to a greater degree than would be possible in the typical classroom situation.

Honors Students are expected to participate in an Honors Seminar for three semesters in the junior and senior years. This seminar carries one hour of advanced credit each semester and may be counted either as elective or required credit, depending upon the decision of the department or division concerned. This seminar is held at an hour available for all of the students concerned and deals with content of significance for any educated person regardless of that individual's special interests.

SCHOLASTIC PROBATION

Any student making a standing of 1.5 or lower on a semester's work is placed on probation for the next semester in residence and his parents will be notified of his unsatisfactory work. The student will be dropped from school if he makes less than a 1.7 grade-point average during his next semester in residence.

An exception *may* be made to this general rule if the student is placed on probation at the close of the first semester and fails to make a standing of 1.7 the following semester. In this instance, he may apply for permission to attend the following summer term. If this permission is granted, the student's schedule of classes for the summer term must include those courses in which he made low marks

during the academic year. If the student's total standing on work taken during the academic year and the summer term is 1.7 or better he will be removed from probation. If the student's total standing on work taken during the academic year and the summer term is less than 1.7 he will be dropped from school.

A student who is placed on probation at the end of the Spring semester may remove himself from probation by earning a 2.00 grade-point average as a full-time student in the following regular summer session.

A student who has been dropped for poor scholarship may apply for readmission after the lapse of one semester. After being dropped for poor scholarship the second time he is not eligible for readmission.

Exceptions for Freshmen

A freshman who makes a standing of 1.5 or lower on his first semester's work is placed on probation for the next semester in residence. During this second semester the student is required to include in his schedule of classes those general education courses in which he made low marks during the first semester. If at the end of the second semester the student has earned a standing of 1.7 or above on the work of the semester he will be removed from probation.

If at the end of the second semester the student has not earned a standing of 1.7 or above on the work of the semester and has not accumulated a total of 27 hours of credit during the academic year he may apply for permission to attend the following summer term. If this permission is granted, the student's schedule of classes for the summer term must be made up of those courses in which he has made low marks during the academic year. At the end of the summer term, if the student's total standing on the work of the academic year and the summer term is 1.7 or better he will be removed from probation. If at the end of the summer term his standing is not 1.7 but the student has accumulated 27 hours of credit, he *may* be given a third semester. If a minimum standing of 1.7 is not earned on the work of this third semester the student will be dropped.

ABSENCES

When a student enrolls he is expected to attend all regular exercises of the University. Class absences seriously hinder scholarship and the cooperation of parents is requested in reducing absences to a minimum. Parents are, therefore, urged to refrain from asking permission for students to be absent preceding or following a holiday or to take frequent trips over the week-ends.

A student who is absent from the last class meeting preceding, or the first class meeting following any vacation or holiday, will be

penalized one-half hour of general credit for each class absence unless he presents a satisfactory excuse, before the absence is incurred whenever it is possible to do so. In any event, arrangements for such excuses must be made within three days after the student returns to class. (Arrangements for these absences must be made in the office of the Dean of Undergraduate Programs.)

Students are required to be prompt and regular in class attendance and deliberate "cuts" are not excused. However, absences are excused* for the following reasons:

1. **Illness.** If the absence has been caused by illness, the student is expected to present to the instructor an excuse signed by the University Nurse, or a physician.
2. **Representing the University.** If the absence has occurred because the student was representing the University in a recognized activity—music, athletics, etc.—lists of such students are sent to the instructors by the Dean of Undergraduate Programs.
3. **Authorized Field Trips.** Lists of students participating in authorized field trips are sent to the instructors by the Dean of Undergraduate Programs.
4. **Instructors are authorized to exercise their discretion in excusing absences for other causes.** If the individual teacher feels that the absence is justified, the excuse is granted, otherwise the absence is considered as unexcused.

Cases of extended or repeated absence are reported to the Dean of the School in which the student is enrolled.

*If the absence is excused the student is permitted to make up any work that the instructor considers essential. This consideration is not given if the absence is unexcused.

DISCIPLINE

When students enroll at Morehead State University, it is with the definite understanding that they agree to abide by the regulations of the institution. The authorities of the University, in cooperation with the students, will make whatever regulations are deemed necessary.

WITHDRAWALS

Students withdrawing from school during any semester or term must arrange for their withdrawal with the Dean of Students and the Dean of Undergraduate or Graduate Programs. No refunds will be made unless the withdrawal is made through the proper channels.

EXPENSES

The registration fee per semester for students residing in Kentucky is \$100.00 and for those students residing outside Kentucky it is \$350.00.

Terms of Payment

Fees and room rent are payable at the time of registration. Checks should be made payable to Morehead State University.

The University has a special payment plan for those who are unable to pay the entire expenses for the semester at the time of registration. The first payment will be made at the time of registration and the final payment will be made at least two weeks before the close of the semester. Further information may be obtained by writing the Director of Business Affairs.

Satisfactory financial arrangements must be made before registration is complete.

No degree, diploma, or transcript of credits, will be furnished to students until all financial obligations to the University have been paid. All previously incurred expenses to the University must be paid in full before a student may re-enter at the beginning of any semester.

Incidental Fee

An Incidental Fee of \$20.00 is charged each semester. This charge is in lieu of special fees usually charged for: medical service—the services of the school nurse and those of a physician for minor ailments; student activities—admission to athletic contests and other special programs held on the campus; subscription to the student newspaper; Raconteur fee; and special laboratory fees. This fee does not cover the charges made for private instruction in music and certain other special fees paid by some students as indicated in this catalog.

Laundry Fee:

Each dormitory student is charged a laundry fee of \$4.00 a semester which is payable at the time of registration. This fee covers the rental charge on sheets, pillowcases, and bedspreads furnished by the University and provides laundry services for them.

Post Office Box Fee

A fee of \$.75 is charged each semester for rental of a box in the University Post Office.

Graduation Fee:

The graduation fee is \$7.50. This amount covers the cost to the student of the diploma, cap and gown rental and certain college expenses incidental to graduation.

Swimming Fee:

Payment of the Incidental Fee entitles students to the use of the swimming pool.

Faculty members and employees of the University have the privilege of using the pool by paying a fee of \$1.50 per semester. Families of faculty members and employees are included in this classification.

Pupils enrolled in the University Breckinridge School also have the privilege of using the swimming pool by paying this fee.

Music Fees:

The fees for private lessons in music are: (a) For two one-half-hour lessons a week, \$35.00 per semester; and (b) For one one-half-hour lesson a week, \$20.00 a semester. Under certain conditions beginning students in applied music may be assigned to a student assistant for instruction and, in this event, the fees are one-half the amounts indicated for instruction provided by members of the regular staff.

Expenses for One Semester:

	Kentucky Residents	Out-of-State Students
Undergraduate students		
Full-time -----	\$100.00	\$350.00
Part-time (less than 12 hours) per hour -----	9.00	30.00
Room rent (refer to rent schedule) -----	100.00-120.00	100.00-120.00
Laundry service -----	4.00	4.00
University post office box -----	.75	.75
Incidental fee -----	20.00	20.00
Graduate students		
Full-time -----	100.00	350.00
Part-time (less than 9 hours) per hour -----	12.00	40.00

Expenses for Regular Summer Session:

	Kentucky Residents	Out-of-State Students
Registration fee -----	\$ 50.00	\$175.00
Incidental fee -----	10.00	10.00
Room rent -----	55.00	55.00

Expenses for Post-Summer Session

Cost per credit hour		
Undergraduate -----	\$ 9.00	\$ 30.00
Graduate -----	12.00	40.00
Dormitory (per week)-----	6.00	6.00
Post Office Box Fee-----	.50	.50

Rent Schedule*Apartments for Married Students**Lakewood Terrace*

Studio -----	\$ 50.00	per month, includes utilities
One-bedroom ----	55.00	per month, includes utilities
Two-bedroom ----	60.00	per month, includes utilities

Normal Hall ----- 65.00 per month, includes utilities

Riceville

Two-bedroom ----- 25.00 per month, plus utilities

*Dormitory Housing**Women's Residence Halls*

Allie Young Hall-----	\$100.00	per semester
Fields Hall -----	100.00	per semester
Thompson Hall -----	100.00	per semester
Mignon Hall -----	120.00	per semester
West Mignon Hall -----	120.00	per semester
East Mignon Hall -----	120.00	per semester
Mignon Tower -----	120.00	per semester

Men's Residence Halls

East Hall -----	100.00	per semester
Butler Hall -----	110.00	per semester
Waterfield Hall -----	110.00	per semester
Wilson Hall -----	120.00	per semester
Regents Hall -----	120.00	per semester
Alumni Tower -----	120.00	per semester

OTHER EXPENSES

The University maintains two modern cafeterias and a grill and food may be purchased at reasonable rates.

Books and necessary supplies may be secured at the University Bookstore. Prices on these items are held at a minimum.

Special fees for Late Registration, Change of Schedule, Private Instruction in Music, and Graduation are explained separately in this catalog. Consult the index for page references.

Credit:

No degree, diploma, or transcript of credits will be furnished a student until all financial obligations to the University have been paid.

All previously incurred expenses at the University must be paid in full before a student may re-enter at the beginning of any semester.

Refunds:

Refunds of fees will be made as follows:

A student withdrawing during the first week of school will be refunded 75% of his fees.

A student withdrawing within the first three weeks of school will be refunded 50% of his fees.

No refund of fees will be made after the first three weeks.

Definition of Kentucky Resident Student:

The following policy, adopted by the Council on Public Higher Education, Commonwealth of Kentucky, in accordance with Section 164.020 (2) of the Kentucky Revised Statutes, is applied to determine a student's eligibility for fees assessed Kentucky residents who enroll at any of the state-supported institutions of higher learning in the Commonwealth of Kentucky. This determination is made at the time of initial enrollment and shall not be changed thereafter except as provided below.

A student under twenty-one years of age is eligible to register as a resident of Kentucky if his parent or legal guardian has maintained continuous residence in the Commonwealth for twelve months immediately preceding his original enrollment. No person shall be considered to have gained residence in the Commonwealth while a student unless or until his parent or legal guardian moves into the Commonwealth and acquires residence. If a student is registered as a resident of the Commonwealth and his parent or legal guardian thereafter moves out of the Commonwealth, the student will become a non-resident at the beginning of his next enrollment. If the parents have different domiciles, the domicile of the parent who has legal custody of the student's person shall be considered the domicile of the student.

A student twenty-one years of age or older is eligible to register as a resident if he has maintained continuous residence in the Commonwealth for twelve months immediately preceding the date of his original enrollment, exclusive of any time spent in attendance at any institution of higher learning. An adult student registered as non-resident upon his original entrance cannot generally thereafter acquire resident status.

An adult student from out-of-state who seeks residence status must assume the burden of proving conclusively that he has been a resident of the Commonwealth. In general, it is assumed that the intent to remain indefinitely in the Commonwealth is evidenced not only by what a person states but what a person has actually done. Normally, persons with intent to establish residence will be expected to have done all those things which a person customarily does when establishing a permanent residence, some of which are: obtaining full-time employment, establishing church membership, affiliating with local organizations, buying property, filing of tax returns, and the various other things which give evidence of intent to remain indefinitely within the Commonwealth.

STUDENT AUTOMOBILES

In 1962, the Council on Public Higher Education adopted a policy concerning the possession and operation of motor vehicles by students in the state institutions of higher education. In conformance with the Council policy, Morehead has adopted the following regulation—Students registered as freshmen (0-29 hours) do not have motor vehicle privileges. Sophomores (30-59 hours) with less than a "B" average are not permitted to possess and/or operate a motor vehicle in Rowan County, Kentucky. Sophomores with a "B" average or above who are not on social probation are eligible for motor vehicle privileges. All juniors and seniors who are not on academic or social probation are eligible for motor vehicle privileges.

Students who are not eligible for motor vehicle privileges but who bring such vehicles into Rowan County, Kentucky will be asked to return such vehicles to their homes immediately. They will also be subject to the motor vehicle regulations which impose assessments for violation of the institutional policy.

SCHOLARSHIPS

A number of scholarships are available to worthy Kentucky students. To qualify for these various grants the applicant must be (a) recommended by his high school principal; (b) have a superior high school record; and (c) establish evidence of need for such assistance.

General Scholarships

The University has provided a limited number of scholarships which are available to freshmen students who meet the institutional requirements for such awards.

Pre-Honors Scholarships

Entering freshmen who demonstrate unusual ability through scores made on tests and high school transcripts may be accepted for the Pre-Honors Program during their first and second years of study at Morehead.

Pre-Honors students will be granted academic scholarships in the amount of \$200.00 each year to be applied to their fees at the rate of \$100.00 each semester provided the student makes satisfactory academic and social progress.

Students who are accepted for the Pre-Honors Program will be assigned to an adviser who will assist them with the scheduling of classes and the arrangements for other learning experiences.

Pre-Honors students may be admitted to the Honors Program at the beginning of the junior year on the basis of success achieved during the first two years of study.

Students who have participated in the Pre-Honors Program on scholarships and are admitted to the Honors Program as juniors will be continued on scholarships in the amount of \$200.00 each year to be applied to their fees at the rate of \$100.00 each semester at registration provided they make satisfactory progress.

Alumni Association Scholarships

General Scholarships—A number of scholarships in the amount of \$600.00 are awarded each year to outstanding high school seniors who need financial assistance in order to attend Morehead State University. These scholarships are in the amount of \$75.00 per semester and are automatically renewed if the recipient maintains a standing of 2.5. To apply for one of these scholarships an applicant must file a report of his high school record with the office of Alumni Affairs by April 30 along with a scholarship application form which will be furnished upon request by the Director of Alumni Affairs. Letters of recommendation are very helpful and it is suggested that applicants have at least one recommendation from a graduate of Morehead State University.

Alumni-Faculty Award Scholarship—A scholarship in the amount of \$150.00 is presented annually to a student enrolled at Morehead State University. The grant is awarded in honor of the recipient of the Alumni Association's Distinguished Faculty Award. Both the recipient of the Distinguished Faculty Award and the scholarship award will be named at the alumni banquet held annually in May. The scholarship is awarded to a Morehead student on the basis of financial need

and achievement within the field of study in which the recipient of the Distinguished Faculty Award teaches. The recipient is named by an alumni committee and applications are not accepted for this award.

Gabriel Banks Alumni Scholarship—Lloyd Cassity, a past president of the Morehead Alumni Association and member of the Board of Regents, has established a scholarship fund in honor of Gabriel Banks, an associate professor emeritus of English. The \$600.00 award is payable in the amount of \$75.00 each semester provided a standing of 3.0 is maintained. High school seniors are eligible and applications should be in the hands of the Director of Alumni Affairs by April 30. Preference is given to potential English students.

Mona Combs Memorial Alumni Scholarship—A memorial scholarship fund has been established in honor of Mona Combs, an instructor in English at Morehead State University from 1959 until 1964. She received the bachelor's degree from Morehead in 1941 and the master's degree in 1958. This award is in the amount of \$150.00 payable at the rate of \$75.00 for each semester of the freshman year, with the provision that the recipient maintains a 3.0 standing. Applications should be in the hands of the Director of Alumni Affairs by April 30. Preference is given to prospective English students.

Mignon Doran Alumni Scholarship—The Alumni Association established a scholarship fund in 1964 in honor of Mrs. Adron Doran, wife of the President of Morehead State University for her outstanding services to the campus community. At the time she was serving as president of the Kentucky Federation of Women's Clubs. The scholarship is in the amount of \$600.00 payable at the rate of \$75.00 a semester, provided the recipient maintains a 2.5 academic standing. Applications should be mailed to the Director of Alumni Affairs by April 30. High school seniors interested in attending Morehead who are in need of financial assistance are eligible for this award.

Henry C. Haggan Alumni Scholarship—The Alumni Association initiated a scholarship in honor of Henry C. Haggan, professor of agriculture on the Morehead State University faculty from 1923 until his retirement in 1964. The scholarship is awarded in the amount of \$150.00, payable at the rate of \$75.00 for each semester of the freshman year. The scholarship is awarded to a high school senior who has excelled in agriculture and wishes to continue in this field of study while attending Morehead State University. The award is administered by the Alumni Association with the cooperation and aid of the agriculture faculty of the University. Applications may be mailed to the Director of Alumni Affairs by April 30.

A. Y. Lloyd Alumni Scholarship in Public Administration—The Alumni Association initiated a scholarship in Public Administration in honor of Dr. A. Y. Lloyd, a former member of the Morehead State University faculty. The award is made to an upper classman enrolled at Morehead who has demonstrated outstanding academic ability and has an expressed interest in Public Administration. The grant is in the amount of \$150.00, payable at the rate of \$75.00 a semester during the senior year. The recipient of the scholarship is selected jointly by the chairman of the Division of Social Studies, the Director of the Government Service Training Program and the Director of Alumni Affairs. Applications should be sent to the Director of Alumni Affairs by April 30.

The Juanita Minish Memorial Alumni Scholarship—The Alumni Association initiated a memorial scholarship in honor of Juanita Minish, a supervising teacher in foreign language at the University Breckinridge School from 1930 through 1962. The scholarship is awarded each year to a high school senior who would like to study in a language program at Morehead. The award is in the amount of \$150.00, payable at the rate of \$75.00 a semester for the freshman year. Applications should be sent to the Director of Alumni Affairs by April 30.

The Clifford Rader Memorial Alumni Scholarship—The Alumni Association initiated a scholarship fund in memory of Dr. Clifford R. Rader, a professor of history and government and chairman of the Division of Social Studies from 1947 until 1964. The scholarship is awarded to a high school senior who wishes to pursue a course of study in the social sciences at Morehead. The grant is in the amount of \$150.00, payable at the rate of \$75.00 a semester during the freshman year. Applications should be sent to the Director of Alumni Affairs by April 30.

The Bill Salisbury Memorial Alumni Scholarship—The Alumni Association administers this scholarship provided by funds given by the Morehead State University Student Council each year. The scholarship is named in honor of Bill Salisbury, a former president of the Student Council at Morehead and a 1958 graduate. The scholarship is awarded to a high school senior on the basis of leadership, scholarship and financial need. The grant is in the amount of \$200.00 payable at the rate of \$100.00 a semester for the freshman year. Applications should be sent to the Director of Alumni Affairs by April 30.

The Barbara Hogge Smith Memorial Alumni Scholarship—The Alumni Association administers this scholarship in memory of Barbara Smith, daughter of Mr. and Mrs. Lester Hogge of Morehead. She is

survived by her husband, J. Phil Smith of Jackson, a 1948 graduate of Morehead State University. The scholarship is awarded annually to a high school senior from Breathitt County in the amount of \$150.00, payable at the rate of \$75.00 a semester for the freshman year. Applications should be sent to the Director of Alumni Affairs by April 30.

Music Scholarships

A number of scholarships are offered in the field of music, and these are awarded to students who show proficiency in music. The amount of the stipend varies, depending on need, proficiency, and interest. These scholarships are administered by the Department of Music and applications should be made directly to the Head of the Department of Music, Morehead State University, Morehead, Kentucky.

Athletic Scholarships

A number of scholarships are offered to athletes. These awards are given strictly in compliance with the Constitution and By-Laws of the Ohio Valley Conference. All applications for athletic scholarships should be made directly to the head coach of the sport in which the applicant is interested.

Other Scholarships

Home Economics Club Scholarship—The Morehead Home Economics Club makes a scholarship grant of \$100.00 a year to an outstanding prospect in the field of home economics. Applications should be filed with the Head of the Home Economics Department, Morehead State University, Morehead, Kentucky.

Button Memorial Scholarships—The alumni of the Morehead Normal School, the forerunner of Morehead State University, provide for two scholarships which pay the regular college registration fees for two worthy students of their own choice. These scholarships were established in memory of Frank C. Button who served as president of both institutions.

Fenton T. West Scholarship—This scholarship was established to honor the memory of Dr. Fenton T. West, Chairman of the Division of Science and Mathematics, from 1949 until his death in 1958. This scholarship is awarded each year to the most outstanding sophomore or junior science or mathematics major as determined by the faculty of the School of Sciences and Mathematics. The amount of the scholarship is \$100.00, which is to be applied to the next year's ex-

penses at Morehead. Applications should be made to the Dean, School of Sciences and Mathematics, Morehead State University, Morehead, Kentucky.

Mary E. Lathram Memorial Scholarship—The Department of Classroom Teachers of the Kentucky Education Association has established a full scholarship in memory of Mary E. Lathram, a graduate of Morehead who taught for many years in Bath County and who was also active in the work of the Classroom Teachers Organization. This scholarship is awarded to a young woman residing in the area served by the Eastern Kentucky Education Association who gives promise of developing into a superior elementary teacher. This provision is in line with the motto of the Classroom Teachers—"Replace a Teacher with a Teacher."

Ross C. Anderson Scholarship—The Ross C. Anderson Scholarship is awarded to an outstanding business student at the beginning of the senior year. The scholarship is given in memory of Ross C. Anderson, who was a member of the business faculty from 1938 until his death in 1961. The recipient, who is selected by the business faculty on the basis of scholarship and financial need, receives \$50.00 a semester for two semesters. The money for the scholarship is furnished by the Kappa Mu Club and other donations.

Joseph Daniel Coker Memorial Fund—This loan fund was established in memory of Joseph Daniel Coker, a business major, who was killed in an accident on November 29, 1962. This fund provides a \$200.00 loan to a senior business major. The recipient of the loan must have a 2.5 overall average and a 3.0 average in his business major. The loan is payable within one year after graduation, and is non-interest bearing. The recipient of the loan will be determined by the business faculty.

The Mocabee Scholarship—Mr. W. D. Mocabee of Greenup, Kentucky, has established a scholarship fund at Morehead State University for the graduating seniors of the Greenup County High Schools. One graduating senior is selected from each of the schools in Greenup County by the authorities of the high schools. The recipients of these scholarships receive a stipend of \$200.00 per year to be applied to their expenses as students at Morehead State University.

OPPORTUNITY FOR STUDENT EMPLOYMENT

The University has made it possible for a number of students to earn a part of their expenses by doing various kinds of work. The work opportunities available are in the cafeterias, dormitories, offices,

bookstore, University Post Office, science laboratories, library, and various buildings. Some students find employment of various types in the town of Morehead.

The University participates in the Federal Work-Study Program and students are not permitted to work more than 15 hours per week while enrolled as a full-time student. Students desiring employment may obtain application forms and a more detailed explanation by writing: Student Financial Aid Director, Morehead State University, Morehead, Kentucky 40351.

STUDENT FINANCIAL AID

Morehead State University presents a broad program of aid. However, the University does not encourage the borrowing of unneeded money, but endeavors to inform the student who has genuine need, of the possibilities available to him.

Since it is impossible for the University to supply the financial needs of all, the student is urged to investigate outside sources of aid. In considering the various types of aid available, such as loans under the National Defense Student Loan Program or the United Student Aid Fund Loan, a job under the College Work-Study Program, and Educational Opportunity Grant, or a special scholarship listed in the catalogue, the applicant with considerable need is advised to consider the possibility of employing more than one type of aid, making up what we refer to as a "financial aid package."

A fundamental pre-requisite for aid eligibility is acceptance for admission to the University or, in case of an upperclassman, adequate academic standing for continued enrollment. The prospective freshman should settle any questions regarding admission before seeking a financial aid decision.

Application forms and other information may be obtained by writing:

Student Financial Aid Director
Morehead State University
Morehead, Kentucky 40351

AWARDS AND PRIZES

During the month of May each year, two special Convocation Programs are held at which time students who have excelled in the various types of college activities are recognized. One of these pro-

grams is devoted to recognizing academic accomplishments and all divisions of the college present one or more awards to outstanding students in their fields of interest. At the second program recognition is given to those individuals and groups who have excelled in various phases of the extra-curricular program.

NIGHT AND SATURDAY CLASSES

Morehead follows the practice of scheduling a number of classes at night and on Saturday to accommodate in-service teachers. These courses carry residence credit. No in-service teacher is permitted to earn more than four hours of credit during a semester, or eight hours during a school year, in any combination of residence, correspondence, or study center work. (This is a regulation of the State Board of Education and applies to both undergraduate and graduate students.)

EXTENSION AND CORRESPONDENCE COURSES

Extension Courses:

The University arranges to send instructors to teach non-laboratory courses off the campus when classes of desirable size can be organized. This work carries extension credit and not more than one-fourth of the credits presented for any certificate or degree may be earned by any combination of correspondence and extension credit.

The fee for undergraduate extension courses is \$200.00 for each semester hour of credit. The cost of the course is apportioned equally among the students enrolled in the class. By this arrangement, the actual cost to each student is determined by the number enrolled in the course. However, a minimum fee of \$10.00 a semester hour will be charged each student.

The University is also in position to offer a limited number of graduate courses in suitable study centers. Enrollment in these courses is limited to graduate students and the fee for a three-hour graduate course is \$600.00. The minimum individual fee for a graduate course by extension is \$12.00 a semester hour.

Individuals interested in having extension classes organized in their localities should write the Director of School Relations.

Correspondence Courses:

Morehead also offers courses by correspondence. The fee for this work is \$10.00 a semester hour.

Anyone interested in correspondence work should write the Director of School Relations for complete information.

Information of Particular Interest To Freshmen

1. What has been the history of the University?

Morehead State University was established in 1922 and has operated continuously since September, 1923. For a more complete statement see page 44 of this bulletin.

2. Is Morehead an accredited institution?

Yes. Morehead State University is fully accredited by the following agencies—

- a. The Southern Association of Colleges and Schools.
- b. The National Council for Accreditation of Teacher Education.
- c. The American Association of Schools of Music.

3. What types of undergraduate training are offered at Morehead? The University offers several types of training. These are—

- a. A four-year program for elementary teachers.
- b. A four-year program for secondary teachers with opportunities for study in agriculture, art, biology, business, chemistry, drama, earth science, economics, English, French, geography, geology, German, health, history, home economics, industrial education, journalism, Latin, mathematics, music, physical education, philosophy, physics, political science, psychology, radio, recreation, sociology, Spanish, and speech.
- c. A four-year program of general academic training with the same opportunities for study as those listed above. This program does not qualify the student for a teaching certificate.
- d. A four-year program qualifying Smith-Hughes teachers of vocational home economics.
- e. A four-year program in business administration—non-teaching.
- f. A four-year program in clothing and textiles—non-teaching.
- g. One-year terminal programs in secretarial studies and clerical activities.
- h. Two-year programs leading to associate degrees.
- i. Special program in industrial technology.
- j. Programs preparing teachers of the mentally retarded, junior high school teachers, and school librarians.
- k. Preliminary training for professional study in agriculture, dentistry, engineering, foods management, forestry, law, medicine, medical technology, nursing, optometry, pharmacy, veterinary medicine, etc. (For more complete statements see the pertinent information in this catalog. Consult the index for exact page references.)

4. What is the standing of the Morehead faculty?

Members of the teaching staff are selected on the basis of their ability to do effectively the particular work to which they are assigned. This university believes that its major task is to be accomplished in the classroom, but that this classroom activity, to be effective, must be made as functional as possible. The faculty at Morehead is highly trained and is engaged constantly in the effort to improve its efficiency. The academic training of the members of the faculty may be determined by referring to the material on page 7 of this bulletin.

5. Is there an opportunity at Morehead for a deserving student to work and thus defray a part of the cost of this education?

Yes. A large portion of the clerical and routine work on the campus is done by students. Anyone interested in this work should make application to the Student Financial Aid Director. For a more complete statement see page 76 of this bulletin.

6. What are the requirements for admission at Morehead?

Our admission requirements are similar to those of any standard university. A complete statement of these requirements may be found on page 55 of this bulletin.

7. How should a student apply for admission at Morehead?

Anyone wishing to be admitted to the University should write to the Director of Admissions, Morehead State University, Morehead, Kentucky. All necessary forms and instructions for completing the application will then be sent to the applicant.

8. What are the requirements for graduation at Morehead?

To graduate at Morehead you must earn a minimum of 128 semester hours of credit, at least 43 hours of which must be earned in junior and senior courses. Not more than one-fourth of this total can be earned by extension and/or correspondence. A minimum scholarship average of "C" must be maintained on all residence courses offered for a degree and an average of "C" must also be earned in the student's area of concentration, majors, and minors.

9. What should a freshman do on registration day?

We have attempted at Morehead to make the process of registration as simple as possible and at the same time secure the basis for adequate records and proper course assignments. Freshmen should consult the University Calendar for information concerning the Orientation Schedule.

10. What does it cost to attend school at Morehead?

The registration fee for Kentucky students is \$100.00 per semester and for out-of-state students this fee is \$350.00. An itemized list of the usual expenses of students is estimated on page 68 of this bulletin.

11. What types of living accommodations are available to students attending Morehead?

The University plant includes fifteen dormitories, eight for men and seven for women. Each of these residence halls is equipped in such a way that students are comfortably and safely housed. These buildings are fireproof in construction and entirely modern in every respect.

In addition, a number of furnished apartments are available for the use of married students. Students with children are given preference in the use of these apartments.

The University also operates its own cafeterias. Wholesome, well-cooked food may be secured at a minimum cost.

12. Does Morehead furnish guidance facilities for its students?

Yes. Each freshman is assigned to a faculty adviser at the time of enrollment. This adviser aids the student in his choice of courses and activities. The adviser is also available at all times for help in connection with personal problems that may arise. On the basis of this acquaintance, the attempt is made to guide the student into a life activity that is suitable.

13. What opportunities are offered at Morehead for participation in extra-curricular activities?

Extra-curricular activities are encouraged at Morehead. The University is a member of the Ohio Valley Conference and sponsors varsity teams in the major sports. The success of these teams in past years speaks for itself. The musical organizations are also active and very fine musical groups have been developed. In addition, dramatics, debate, and journalistic activities are sponsored. Other organizations emphasizing particular subject-matter interests are promoted as well as various clubs having social activities as their goal. For a complete list of these student organizations see page 86 of this catalog.

Auxiliary Services and Activities

HEALTH SERVICES

The University Infirmary and the nurse's office are located on the lower floor of Fields Hall. Registered nurses are on duty at all times to care for emergencies and to attend to those who have been admitted to the Infirmary for medical attention. In cases of injuries sustained on campus due to falls, injuries sustained in physical education classes and other activities, the university, by law, is not required to carry insurance and therefore cannot assume medical bills beyond services of the University nurses. All students are urged to carry adequate health and accident insurance which can be purchased through University Group Plan for a nominal fee.

All full-time students are entitled to use the facilities of the University Infirmary and the services of the University nurses as provided by the University. In order to be admitted to the local hospital here in Morehead, it is necessary to be referred to the hospital by a University nurse or a local physician.

STUDENT HEALTH INSURANCE

The University, through a sound insurance firm, makes available to the students on a voluntary basis, a group insurance plan covering accidents and sickness. The student may purchase the policy covering only accidents or the policy covering accidents and sickness. The policy covers both the doctor's fee and hospitalization. It has the usual limits that most policies contain. The policy holder is protected at home, at school, or while traveling. This insurance may be purchased during registration.

RELIGIOUS ENVIRONMENT

Since Morehead State University is a state institution, it is, of course, non-denominational.

There are ten churches in Morehead, representing the following denominations: Baptist, Catholic, Christian, Methodist, Presbyterian, Church of God, Episcopal, Church of Christ, United Penecostal, and Nazarene. These churches give the students a hearty welcome to all their services. While the students are not required to attend, they are encouraged to affiliate with the church of their choice and to find a church home. Many denominations are represented on the University faculty, who for the most part have their memberships in the Morehead churches.

LYCEUM AND SPECIAL ENTERTAINMENTS

A portion of the Incidental Fee, paid by each student at registration, is used by the University to provide a series of public lectures, musicales and other forms of entertainment, to which all students are admitted either free (upon presentation of their student identification cards) or at special reduced prices. These entertainments are so scheduled as to give the school community an opportunity of hearing talent of high order each semester.

SPECIAL LECTURES

During the University year special speakers and lecturers are invited to come to the campus. In the past a number of prominent Kentuckians and eminent speakers from various sections of our country have brought inspiring messages of vital concern to the student body.

CONVOCATION EXERCISES

Convocation exercises are held as the occasion demands. The programs—religious, social, and educational in nature—are conducted by different members of the faculty, and by invited guests and speakers.

The purpose of these programs is to create ideals, disseminate information, establish professional attitudes, develop culture, and promote a better school morale.

COMMENCEMENTS

The University has two commencement exercises each year, one at the close of the second semester and the second at the close of the summer term.

All students who are candidates for the University degrees are required to participate in the commencement exercises unless excused by the Vice President for Academic Affairs.

Only students who have satisfied all requirements for graduation at the time of commencement will be permitted to participate in the graduation exercises.

ATHLETICS

The University promotes clean and wholesome athletics. Those students who are interested are encouraged to participate in football and basketball and other sports. Those who are not fitted for such strenuous exercises are encouraged to participate in minor games. Interclass athletics and intramural programs are promoted.

Morehead State University is a member of the Ohio Valley Conference and the National Collegiate Athletic Association.

INSCAPE

Inscape, the literary magazine, provides a publishing medium for those students and alumni who are interested in imaginative writing. This magazine is issued periodically and is sponsored by the Division of Languages and Literature and the Literary Arts Club.

EAGLE EDITIONS

The *Eagle Editions* in poetry are edited and publicized by the Division of Languages and Literature. They consist of collections of poetry by reputable but hitherto unpublished poets.

STATEMENT

Statement, a student publication sponsored by the Division of Languages and Literature, is a medium for interested and mature writers from all parts of the University. Its central purpose is to bring current writing of interest and quality before the public, to stimulate interest in writing, and to encourage writers on the campus. Selected outside sources are also invited to submit manuscripts for publication.

TRAIL BLAZER

The *Trail Blazer*, official newspaper of Morehead State University, is published bi-weekly by the student body. The *Trail Blazer* has gained recognition as one of the South's finest student newspapers. Students who have had journalistic experience or who are interested in the newspaper field are encouraged to try for staff positions.

RACONTEUR

The *Raconteur*, the University year book, is published annually and has received top national awards. This book, containing as it does a history of the University year in pictures, is a valued possession of all Morehead students.

MOREHEAD ALUMNUS

The *Morehead Alumnus*, a magazine issued semi-annually by the departments of Alumni Relations and Public Relations, is a publication of general interest to alumni and other individuals interested in Morehead State University. Its purpose is to keep the general public informed of happenings at the University. Subscriptions to the magazine are awarded to all active and associate members of the Alumni Association.

GUIDANCE SERVICE

Under the supervision of a faculty committee Morehead attempts to provide its students with guidance service that is designed to aid them in reaching intelligent decisions concerning such problems as—choice of a suitable life activity, selection and successful completion of a program of study, adjustment to campus life, and personal problems of daily living. Regular members of the teaching staff act as student advisers and a close relationship is maintained between adviser and advisee.

TESTING BUREAU

The University maintains a Testing Bureau which serves the dual purpose of providing complete testing service for the students in residence as well as for public school systems. Certain tests are given to all students, but the facilities of the Bureau are available to any student who may wish to have special tests administered.

GOVERNMENT SERVICE TRAINING PROGRAM

Special attention is given at Morehead to the preparation of students for work in government. The Government Service Training Program stimulates interest in careers in government and prepares students for such service. This program expands the career opportunities available to new students and develops alternate or companion objectives for students concentrating in public education as well as in the social studies. Special emphasis is placed on training for public administration at the state and local level, as well as federal level of government.

MOREHEAD STATE UNIVERSITY ALUMNI ASSOCIATION

The Alumni Association is an organization composed of graduates and friends of the University and is designed to stimulate interest in the University and her welfare. Active membership in the Association is available to all graduates of the University and former students who have attended Morehead for two years. Associate membership is available to parents of students and membership is also awarded following a gift of any amount to the alumni fund. All members receive subscriptions to the *Trail Blazer*, the *Morehead Alumnus*, and other periodic publications.

The Alumni Association is currently involved in a concentrated program to provide funds for deserving and capable students needing financial assistance if they are to continue their education.

Student Organizations

The Council of Presidents is composed of all presidents of clubs, classes, and organizations on the campus. Its purpose is to develop a spirit of unity, and cooperation in planning and scheduling of social and recreational activities. The Council also sponsors Better Dress Week each year. A president is elected to serve as chairman for each meeting. The only permanent officer each year is the secretary of the organization.

The Student Council is the governing body of the Association of Morehead State University students. Its purposes are to afford members a medium of expression on matters affecting student life; to provide a means whereby students may exercise a shared responsibility with the faculty, within certain specified limits, concerning the government of the student body; to promote, through joint effort, all the legitimate interests of the University; and to development in its members the desirable qualities of self-reliance, initiative, cooperativeness, high ideals, and loyalty. Membership on the Council is secured through the election by the student body. In addition to this body, each resident hall has its own house council that functions in specified areas.

HONOR SOCIETIES

Cwens is a national sophomore women's honorary society. Its goals are to serve the Alma Mater, to act as an incentive to freshman achievement and to provide training for leadership. The specific qualifications that are prerequisite to invitation are: a 3.0 standing, the promise of leadership, and willingness to serve. Though it is an organization open only to those with high academic standing, it is primarily a club designed to serve the University in all possible ways. It was organized in 1959 and became a member of National CWENS in 1961.

Blue Key National Honor Fraternity is an honor fraternity whose active membership includes those men who have completed at least two full years of college work, are of good character, recognized as leaders in scholarship and college activities, and who have maintained an academic average of 3.0 or above. This organization stimulates intellectual achievements and the desire to serve the institution and fellow students. The fraternity fosters the concept that it is a

desirable goal to express ones own life and character in what he is able to accomplish for his fellow man which is expressed in the fraternity motto, "Serving, I Live".

Cardinal Key Colony is an honorary sorority for junior and senior women. The purposes of the organization are to recognize achievement in scholarship and extra curricular activities, and to advance religion, patriotism, and service by affording training for leadership in the University. This sorority stimulates ambition for intellectual achievements and a desire to serve the University, community, and fellow students. The organization honors women who have shown leadership ability and interest in service to Morehead State University.

Kappa Delta Pi, Epsilon Theta Chapter of Kappa Delta Pi, was installed at Morehead in May, 1942. This national honorary fraternity is open to outstanding students in their junior, senior and graduate years. The organization is primarily interested in the promotion of science, fidelity to humanity, service and scholarship. Membership constitutes a mark of distinction in the teaching profession.

Phi Mu Alpha is an active honorary music fraternity for men. Members are selected on the basis of interest in music, leadership, scholarship, achievement and character. The Theta Pi Chapter was chartered May 24, 1959.

Sigma Delta is a national honor fraternity for physical education majors who are dedicated to furthering the cause of health, physical education and recreation. Members must have completed six hours in physical education and have a 3.0 standing in the field. Membership is granted only through invitation.

Sigma Pi Sigma is the only national physics honor society. It serves as a means of awarding recognition to students having high scholarship and promise of achievement in physics. This society sponsors many helpful activities for its members. The Chapter brings speakers of local and national prominence before the group. Individual members present papers and discuss topics of mutual interest before a friendly audience, thus broadening their knowledge, increasing their interest in physics, and furnishing opportunity for individual expression. Student members, through their membership in the society, are officially affiliated with the American Institute of Physics.

ACADEMIC AND SPECIAL INTEREST GROUPS

The Agriculture Club is composed of students who are interested in the study of agriculture and who are also concerned with becoming better citizens. In the past this club has been very active and its

members have contributed their special abilities to the general welfare of the University.

Alpha Beta Alpha is a national society for the furtherance of the study of library science. Our chapter was organized to further the professional knowledge of its members, to promote fellowship, and to encourage qualified students to enter the field of library science. Any bona fide student taking courses in library science or definitely planning to take courses in library science is eligible to become a student member, provided he has a standing of "C" in all his college work.

Beaux Arts Club is composed of art-minded students who organized in the fall of 1935 to stimulate an interest in the fine arts and crafts and also foster a congenial atmosphere for engaging in art activities. All applicants must submit some art work or give an art appreciation talk.

Beta Chi Gamma is composed of students in biology and chemistry. Meetings are held bi-monthly at which programs of general interest are given. Additional projects pertaining to biology and chemistry are carried on by various groups within the organization.

Circle K is a student organization of Kiwanis. Its membership includes students of good character, leadership and scholarship. This is a service organization seeking to develop activities that would be of value to the student body.

Cosmopolitan Club is composed of American and foreign students, and was organized to stimulate the transfer of ideas among students of different nationalities, to encourage the development of enduring friendships and the cultivation of good will toward mankind. Membership is open to all nationalities and is on a voluntary basis.

Diving Eagles was organized to foster an interest in skin diving, to increase the knowledge of the members in the best techniques of underwater operation, and enhance the awareness of water safety. Membership is limited to those who are able to satisfy the requirements for membership placed upon them by the club. These requirements are concerned with a knowledge of water safety and control of diving equipment.

Forensic Union is an organization that aims to promote speech activities through participation on the campus, in the community and with institutions of higher learning. It further aims to develop individual ability and capacity for oral communication in a democratic society. Any full-time student who shows definite interest in the Union and its purposes may apply for membership.

Gamma Beta Phi Society is an organization providing an incentive for high school Beta Club members to continue their affiliation with the organization. This society fosters the desire for academic excellence and promotes cooperation among members for the mutual attainment of this goal. All incoming freshmen who graduated from their respective high schools as Beta Club members in good standing are automatically eligible for membership. Upperclass students who are former Beta Club members may become members of this society by achieving the necessary overall academic standing required for membership.

Gamma Theta Upsilon is a national professional geography fraternity. Its purposes are to further professional interest in geography, to strengthen student and professional training; to advance the status of geography as a cultural and practical discipline for study and investigation; and to create and administer funds for graduate study and research. Membership is open to any student who is regularly enrolled in the University and has completed six hours of geography with above average grades.

Home Economics Club is open to students of home economics. The purpose of the club is to give opportunity for members to develop active leadership and responsibility, to bring students in closer touch with the home economics organizations of the state and nation, and to create and stimulate interest and education in home economics.

Industrial Education Club is an organization to create and promote interest in industrial education, to provide a better social atmosphere, and to promote fellowship within all areas of industrial education.

Judo Club is an organization which stimulates interest in the sport and art of Judo and endeavors to develop competition among its members on a high plane of true amateurism, sportsmanship and friendly relationship, and to provide Kodokan rules and procedures governing such competition. This club establishes and maintains relations with Judo associations interested in promoting competition in the art and sport of Judo. Regular members must have not less than 12 lessons in Kodokan or AAU Judo Committee sanctioned classes or the successful completion of a basic course of Judo instruction recognized by the members of the Kudanshakai.

Le Cercle Francais is an organization which promotes interest in the French program of Morehead State University among the students of French and on the campus at large. It endeavors to provide opportunities for French students and other interested persons to have

further contact with the French language and culture through meetings, lectures, films, discussions, and other activities. Active members are those students who are presently taking or who have taken French at Morehead State University.

Les Courants is an organization composed of a group of upper-class male students who are organized to stimulate interest in the fine arts and to provide a medium for fellowship for those with common interests. Pledges may be accepted from the freshman class at the discretion of the active membership. This organization makes an annual award to the student of the fine arts who has proved himself to be outstanding in character and achievement.

"M" Club is an organization composed of the students who have earned the Morehead "M" in any varsity sport while attending Morehead State University. The club was formed in December of 1949, and seeks to promote the wearing of the Morehead "M" by those who have earned the letter. This club endeavors to create and promote a greater interest in Morehead State University athletics as well as providing recognition for the lettermen of Morehead State University.

Morehead Players, the University dramatic organization, gives ample opportunity to students for the writing, production, and acting of plays, as well as for the design of scenery, stage settings, and lighting effects.

Mu Phi is a mathematics and physics organization whose purposes are to stimulate social and professional growth, to encourage unity, goodwill and fellowship.

Mu Sigma Chi is the local student chapter of the American Chemical Society. Anyone who has successfully completed one semester of chemistry is eligible for membership.

The Mystic Club was organized in memory of Coach Len Miller. This organization is in charge of pep rallies on the campus. It fosters keen interest and participation in all sports, and honors men and women who show outstanding ability in the field of athletics.

The Open Forum was organized at the request of students as a means of discussing campus problems and problems of a general nature throughout the state and nation. The group usually has a guest speaker who talks on some topic of interest. A discussion period follows. The club meets twice each month and membership is open to any student in good standing.

Phi Beta Lambda is a national organization for University business students. The purpose of this organization is to interpret the role of business as it is related to education and the professional world and to acquire an understanding of business economics. This organization endeavors to develop interest in commercial activities and to promote a better understanding between students and faculty through an interesting and instructive social program. Active membership is limited to full-time sophomore, junior, and senior students who are actively pursuing an area of concentration, major, or minor in one of the business or business education curricula at Morehead State University.

Philosophy Club was founded by students who were interested in extending their study of philosophy. The club was organized to help students increase their knowledge of philosophy by means of informal discussions, guest lecturers, and other activities which will contribute to their understanding of philosophy. Students who desire to become members may be considered for membership if they have successfully completed at least one course in philosophy and have earned a 2.0 overall academic standing.

Political Science Club was developed to create an interest in political science by demonstrating the importance of the study of the art and science of government. The organization attempts to strengthen the understanding of all political processes and appreciation for the democratic process. To become a member of this organization one must have declared himself to be a political science major, minor, pre-law student, or be pursuing an Area of Concentration in Social Studies.

Prae-Medicorum Honorary Fraternity was founded to orientate pre-medical and pre-dental students for medical or dental school, to encourage them in their endeavors as Doctor of Medicine or Dentistry through club projects, informal discussions, guest lectures, and such other activities and programs as will promote interest, expose, initiate and create leadership in further understanding the ideals and responsibilities of medicine. Membership is open to students expressing interest in pre-medical and pre-dental training, who meet the necessary overall academic standing.

Spanish Club is an organization whose main objective and purpose is to foster learning and use of the Spanish language and a general understanding of the culture of people whose language is Spanish. Any Morehead State University student who is interested and has a sincere desire to join, may become a member.

Sportsman Club was formed to promote interest in the outdoors. It endeavors to provide information to persons interested in hunting, fishing, camping, spelunking, mountain climbing, and related outdoor sports. The club places great emphasis upon the promotion of safety, good practice, and conservation of natural resources. Membership is open to male students of Morehead State University who have a keen interest in the outdoors and meet the necessary academic requirements.

The Student National Education Association is a national organization which is sponsored by the National Education Association to stimulate interest in teaching among college students. Members of the SNEA have an opportunity to study current problems of education and to become acquainted with the work of the state and national education associations. The club plans meetings of interest to students of education and participates in SNEA workshops for college and university students.

Veterans Club membership is limited to students who are veterans of at least ninety days of service in a branch of the Armed Forces of the United States, who have been discharged under conditions other than dishonorable. Its purposes are to keep members informed on veterans' affairs; to contribute to the extracurricular program of the University; and to better enable students with mutual interests and a background of common experience to gather for fellowship.

The *Alumni Association* is designed to stimulate mutual interest between the University and former students. Payment of the annual membership dues also secures a year's subscription to the *Trail Blazer*. Every graduate should become a member of the Association. In addition to this organization, there are many active county and/or community Morehead Alumni Associations both in the state and in neighboring states. There are presently being organized on the campus several student county clubs which we hope will form the nucleus of many more local Morehead Alumni Associations in the future.

MUSICAL ORGANIZATIONS

The various ensembles organized under the supervision of the Music Department provide social and cultural advantages of great value to students. The orchestra, band and chorus are open to all who can qualify as amateur players or singers. Further particulars about these organizations will be found in the course of study.

A local unit of the *Music Educators National Conference* is also maintained on the campus. Membership in this organization is open to seniors who are majoring in music.

Theta Pi Chapter of Pi Mu Alpha Simfonia was chartered in 1959. Simfonia is dedicated to music and music students. Membership offers much for friends in and out of music.

Sigma Alpha Iota is an internationally incorporated fraternity for women in the field of music. Membership is based upon scholarship, musicianship, personality and character and is open to university women students on the graduate and undergraduate level.

RELIGIOUS ORGANIZATIONS

Baptist Student Union is an organization to strengthen, correlate, and unify all of the separate Baptist religious organizations into one campus organization with one all-inclusive program of religious activity. Membership is open to members of the Baptist Church and/or one or more of the unit organizations of that church. Other students may be extended membership in the group by unanimous consent.

Disciples of Christ Fellowship is designed to provide for the spiritual, social and physical development of all students on campus who wish to attend. While membership is not restricted to members of the Christian Church, it is sponsored and maintained by this brotherhood. A cordial welcome is extended to all students.

Hillel Club is established at Morehead State University to provide facilities, guidance, and organization for religious, cultural, educational, social, social welfare, and inter-faith activities for Jewish students at Morehead State University. Any Morehead State University student who expresses a desire may become a member of this organization.

Newman Club is an international organization which is represented on most college and university campuses. Its purpose is to create unity among Catholic students in higher education. The Newman Club at Morehead strives for a closer relationship with similar organizations of other Christian groups, on or off the campus. Meetings are held on the fourth Sunday of each month. Officers are elected annually.

Warner Fellowship is a student organization, affiliated directly with the Church of God, for the purpose of strengthening the relationship between the student and his spiritual life. The Warner Fellowship was organized in 1955 and meets weekly either on the campus or at the nearby First Church of God. The organization strives to make the total personality of the student a wholesome organism. The

devotional life of the student is emphasized. All students who have Church of God backgrounds are urged to join in the activities of the Warner Fellowship, and in so doing make university life more complete.

The *Morehead Wesley Club* is one of many Wesley organizations in colleges and universities over the nation. In addition to moral and religious needs, the Wesley Club provides for the physical, social, and intellectual needs of the Methodist students on the campus. These needs are met through programs which include singing, discussions, guest speakers, caroling, and worship services. Members of all faiths are invited to attend the Wesley Club.

Westminister Fellowship is a student organization whose purpose is to unite in Christian fellowship and to create a feeling of common loyalty between all Presbyterian students here at Morehead State University together with all students who wish to become affiliated with the Westminister Fellowship. The organization endeavors to help students participate intelligently in the life and work of the Presbyterian Church and to give them an understanding of ecumenical relations of the church, especially those involving the campus.

SOCIAL CLUBS

Alpha Gamma Epsilon is open to any full-time single, upperclass, undergraduate woman student with an overall academic standing of 2.0 or above or any full-time, single graduate woman student with a graduate standing of 3.0 or above. This organization endeavors to provide wholesome social activities for its members and to provide opportunity for the membership to contribute service to the campus community.

Alpha Theta Epsilon is open to any full-time upperclass male undergraduate student or any male graduate student who meets the overall academic standing required of all members. This organization of male students strives to provide public services to the campus and to the community. It, also, endeavors to promote character, leadership, and scholarship through fellowship. The organization places great emphasis upon school spirit among the student body and service to its fellow students.

The *Aquila Club* strives to promote an active interest in good citizenship, to provide desirable religious and social environments for the student body of Morehead State University, and to incorporate a feeling of goodwill in the school and community.

The *Campus Club* membership is open to men students upon invitation. Members are selected from those students who have demonstrated ability as leaders on the campus. It serves both as a social and a service club and one purpose complements the other in developing leadership in the University and among its own members.

Capa Tridents was organized in 1962 and has the following objectives: to instill in the members a desire to promote outstanding and moral character among women students on campus, to promote more appropriate appearance for women on the Morehead State University campus, to provide greater opportunity for women students to develop more versatile personalities, to contribute to the individual academic mind and to contribute to the fulfillment of the overall administrative policies of Morehead State University in its program of student activities.

Chi Phi Delta an organization of women students was organized to provide, create, and instill within each member the importance of honor, individuality, and a likeable personality as components of good character. The organization strives to provide wholesome social activities for its members and to serve as a service organization for the entire campus community. It is open to any full-time single, upper-class, under-graduate student or graduate students who meet the necessary overall academic standing required for membership. This organization places great emphasis upon academic achievement and it is proud of the scholarship of its members.

Collegiate Knights endeavors to provide a better social environment for the student body, to promote leadership, to encourage the student body to appreciate campus life by making an organized contribution to college activities. Any upperclassman who is a full-time student at Morehead State University is eligible for membership in this club if he is able to meet the Club's requirements for membership.

Lakotas is open to full-time single, upperclass, women with an academic standing of 2.0 and to all single graduate women with an overall academic standing of 3.0 or above. The members of this organization place great emphasis upon service and fellowship to the entire University community. This organization endeavors to create within each member a keen appreciation of the spiritual, an eager interest in life as a whole, and an intense passion for accomplishment in all spheres of life.

Palladians was organized to further development and enrich the social life of the students of Morehead State University. It endeavors to foster and perpetuate an aspiration for higher moral and spiritual

roles for all students enrolled at the University. Membership is open to all full-time upperclass male students who have an overall academic standing which meets the necessary requirements for membership in campus organizations. This is a most active organization which places a great deal of emphasis upon stimulating and supporting social activities for the entire campus community.

Pas Adelphi was organized to meet the needs of those male students desiring to promote a true feeling of brotherhood in all students at Morehead State University and the surrounding community. This organization strives to bring about a greater understanding and deeper appreciation in the democracy in which we live and to develop a wholesome atmosphere for social activities. Any full-time upperclass, male undergraduate student or any male graduate student who meets the necessary overall academic standing may apply for membership. This organization emphasizes service to the entire University community and the student body.

Zeta Alpha Phi is composed of upperclass male students of Morehead State University, and it has as its purpose to make provision for educational and cultural activities which will enrich the social life of its members and the students of the University. The organization places great emphasis upon the improvement and support of the social life of the University.

PHI DELTA KAPPA

Phi Delta Kappa is an international fraternity for men which has a universal goal of promoting leadership, research and service in public education. Membership in the Fraternity is by invitation only. To be eligible for membership, the candidate must be a graduate student and he shall have completed at least fifteen hours of professional education courses with a 3.3 average. The fifteen hours of professional education courses may be undergraduate and/or graduate work.



ACADEMIC INFORMATION

Degrees and Certificates

Requirements for Graduation

General Education

Graduate Study



MOREHEAD STATE UNIVERSITY

Degrees and Certificates

CURRICULA

The curricular offerings at Morehead are varied. Students may pursue programs leading to:

The Bachelor's Degree and Provisional Elementary Certificate

The Bachelor's Degree and Provisional High School Certificate

The Bachelor of Arts or the Bachelor of Science Degree without certification

The Bachelor of Business Administration Degree

The Bachelor of Music Degree

The Bachelor of Music Education Degree

The Bachelor of Science Degree and the certificate in Vocational Home Economics

The Bachelor of Science Degree with an Area in Clothing and Textiles

The Bachelor of Science Degree with an Area in Food Service Administration

The Bachelor of Science Degree with a Concentration in Industrial Technology

The Bachelor of Science Degree with a Concentration in Medical Technology

The degree of Master of Arts in Education and the
Standard Elementary Certificate
Standard High School Certificate
Provisional Certificate for Guidance Counselor

The degree of Master of Arts with majors available in
English and History

The degree of Master of Science with a major in
Biology

The Master of Music Degree

The Master of Music Education Degree

Special certification for
Elementary School Principals
High School Principals
Supervisors

Special Education Teachers
School Librarians

The Associate of Applied Science	Degree in
Secretarial Science	Graphic Arts Technology
Office Management	Machine Tool Technology
Agricultural Business	Vocational, Industrial and
Farm Management	Technical Teacher Edu-
Drafting and Design	cation
Technology	Journalism
Electronics	Radio Television
Graphic Arts	Broadcasting
Technology	
Teacher Aides	

The Associate of Applied Arts Degree in
Music Recreation
Social Work

The Associate of Arts Degree

The Associate of Science Degree

Meeting the entrance requirements of professional schools

A certificate indicating successful completion of the one-year
Secretarial or Clerical Program

DEGREES

At Morehead State University, the Bachelor of Science degree is granted to those students who complete all of the requirements for graduation and who earn a minimum of 60 semester hours of credit in a combination of the following subjects—agriculture, biology, business, chemistry, earth science, geology, home economics, industrial arts, library science, mathematics, military science, and physics.

Students completing most of the other undergraduate curricula are granted the degree of Bachelor of Arts. However, the degrees of Bachelor of Business Administration, Bachelor of Music, and Bachelor of Music Education are granted to students completing the requirements in these areas.

The graduate degrees offered by the University are—the Master of Arts in Education; Master of Arts with emphasis in English or history; Master of Science with emphasis in biology; Master of Music; and Master of Music Education.

The University also awards the Associate of Applied Arts, Associate of Applied Science, Associate of Arts, and Associate of Science degrees to those individuals who complete one of the prescribed two-year terminal programs satisfactorily.

GENERAL REQUIREMENTS FOR THE BACHELOR'S DEGREE

Candidates for the bachelor's degree must meet the following general requirements:

1. A minimum of 128 semester hours of prescribed and elective college credit.
2. An average standing of "C," or higher on all work completed at this college.
3. An average standing of "C," or higher, on the area of concentration, the majors, and minors completed as partial requirements for the degree.
4. At least three-fourths of the credit in residence in some standard college; at least one year in residence and one semester immediately preceding graduation in this institution. (One year in residence is interpreted as being two semesters, during which a minimum of 32 hours of credit will have been earned.)
5. Not less than 43 semester hours of work offered for the degree must have been earned in courses numbered 300 and above.

MAJORS AND MINORS

Not later than the beginning of the sophomore year, the applicants for degrees must file with the Registrar their selection of majors and minors or their choice of an area of concentration. The Dean of the School concerned must approve the program to be followed before the completed form is filed.

Students working for the *Provisional High School Certificate* may select majors and minors from the following—

Agriculture	History
Art	Home Economics
Biology	Industrial Education—
Business	major only
Accounting	Mathematics
General Business	Music
Secretarial Studies	Health and Physical
Chemistry	Education—major only
Earth Science	Physics
Economics	Political Science
English	Psychology
Economics and Sociology—	Sociology
major only	Spanish
French	Speech
Geography	Speech and Dramatic Art—
Geology	major only
Health	

In addition to the available subject fields in the foregoing list, students working for the *Provisional High School Certificate* may select minors in the following subjects—

Dramatic Art	Latin
German	Library Science
Journalism	Special Education

AREAS OF CONCENTRATION

Students working for the *Provisional High School Certificate* may select an area of concentration from the following. If the student chooses to complete an area it is not necessary to select additional majors and/or minors.

Art	Vocational Home Economics
Business Education	Industrial Arts
English	Music
Health, Physical Education and Recreation	Science
*Vocational Industrial and Technical Education	Social Science

APPROVED MINORS FOR ELEMENTARY EDUCATION

Students working for the *Provisional Elementary Certificate* may select the required minor from the following list of subjects. The minor, in this instance consists usually of 18 hours and consequently does not meet the requirement for teaching in the secondary school. Students who may think of eventual teaching at the high school level should complete the regular minor as outlined in the requirement of the several departments.

Art	History
Biology	Home Economics
Chemistry	Industrial Arts
Dramatic Art	Latin
Earth Science	Library Science
English	Mathematics
French	Music
General Science	Physical Education
Geography	Physics
Geology	Political Science
German	Spanish
Health	Special Education
Health and Physical Education	Speech
	Speech and Dramatic Art

* Special Certification.

ADDITIONAL FIELDS OF STUDY

Candidates for the bachelor's degree without teacher certification may select their fields of specialization from subjects in the foregoing lists but, in addition, may also choose from the following:

- Area in Clothing and Textiles
- Area in Food Service Administration
- Area in Business Administration
- Area in Medical Technology
- Area in Industrial Technology
- Major or Minor in Philosophy
- Major or Minor in Radio-Television Broadcasting
- Major or Minor in Recreation

GENERAL REQUIREMENTS FOR THE ASSOCIATE DEGREES

Candidates for the associate degrees must meet the following general requirements:

1. Successful completion of a prescribed program.
2. An average standing of "C," or higher, on all work completed at Morehead.
3. A minimum of 32 hours of credit earned in residence at Morehead.

GENERAL REQUIREMENTS FOR THE CERTIFICATE

Candidates for the certificate indicating successful completion of a one-year terminal program must meet the following general requirements:

1. Successful completion of a prescribed program.
2. An average standing of "C," or higher, on all work completed at Morehead.
3. A minimum of 16 hours of credit earned in residence at Morehead.

General Education

One of the fundamental beliefs of Morehead State University is that every university student should have a well-coordinated general education. This is the education that prepares for living, regardless of one's vocational or professional interests, and should develop a logical and discriminating method of thinking; lead to an appreciation of the fine arts, good literature, and the things in life that have lasting value; give an understanding of the social and economic forces that affect our lives; and provide an insight into the way in which each of the fields of learning has something to contribute to the fullness of life.

Accordingly, a selection of courses have been made which are taken by all students desiring teacher certification, with certain exceptions noted in the following listing. This selection includes 49 hours of work, most of which will ordinarily be completed in the first two years of study thereby leaving the last two years for concentrated attention to the individual student's field or fields of major interest. (It should be noted that the general education provisions in the programs designed for students not desiring teacher certification differ somewhat from the program outlined below.)

	Sem. Hrs.
COMMUNICATIONS AND HUMANITIES	18
English: 101 Composition I	3 hours
102 Composition II	3
202 Introduction to Literature	3
To be selected from <i>two</i> of the following fields	9
Literature	
Fine Arts: Art, Music*, Drama	
Foreign Language	
Philosophy	
Speech	

*Ensemble credit not accepted on this requirement

SCIENCE MATHEMATICS AND NATURAL SCIENCE ..	12
Science: 103 Introduction to Physical Science	3 hours
105 Introduction to Biological Science	3
Elective from science and/or mathematics	6

Exceptions: (1) Students majoring, minoring, or taking an area in science do not take Science 103 or 105 except as a department may require one or both courses.

(2) Students following the various pre-professional programs requiring specific science courses may meet the general education requirements in science and mathematics with such courses, provided that a minimum of twelve hours of such credit is earned and that a minimum of six hours of science credit is included.

SOCIAL SCIENCE ----- 12

Social Science: 300 Current World Problems_ 3 hours

History 400 American Foundations -- 3

Elective in the social sciences ----- 6

Exceptions: (1) Students taking the social science area or majoring or minoring in a social science do not take Social Science 300 or History 400 except as these courses may be required by the department concerned.

(2) Students having credit for a year of American History at the college level do not take History 400.

GENERAL PSYCHOLOGY ----- 3

HEALTH AND PHYSICAL EDUCATION ----- 4

Health: 150 Personal Health ----- 2 hours

Physical Education: Activity courses ----- 2

Requirements for Degrees and Certificates

THE BACHELOR OF ARTS DEGREE

I. The Bachelor of Arts Degree and the Provisional Elementary Certificate

a. EDUCATION	Sem. Hrs.
100 Orientation in Education	1
210 Human Growth and Development I.....	3
321 Teaching of Arithmetic	2
326 Teaching of Reading	3
427 Professional Semester	15
Minimum in Education	(24)
 b. COMMUNICATIONS AND HUMANITIES	
English	
101 Composition I	3
102 Composition II	3
202 Introduction to Literature	3
Literature Elective	3
Speech	
300 Oral Communication	3
Elective from Communications and Humanities	3
Minimum in Communications and Humanities	(18)
 c. SCIENCE	
103 Introduction to Physical Science.....	3
105 Introduction to Biological Science.....	3
390 Science for the Elementary Teacher.....	3
Science Elective to be approved by the Department of Elementary Education...	6
Minimum in Science	(15)
 d. SOCIAL SCIENCE	
300 Current World Problems	3
Elective in social science.....	3
Geography	
100 Fundamentals of Geography.....	3
300 Regional Geography	3
History	
400 American Foundations	3

Sociology

Elective to be approved by the Department of Elementary Education	3
Minimum in Social Science	(18)

e. MATHEMATICS

231 Basic Mathematics I	3
232 Basic Mathematics II	3
Minimum in Mathematics	(6)

f. LIBRARY SCIENCE

227 Literature and Materials for Children	3
---	---

g. PHILOSOPHY

200 Introduction to Philosophy	3
--------------------------------------	---

h. PSYCHOLOGY

153 General Psychology	3
------------------------------	---

i. FINE ARTS

Art

121 School Art I	2
221 School Art II	2

Music

100 Rudiments of Music	2
221 Music for the Elementary Teacher	2
Minimum in Fine Arts	(8)

j. HEALTH AND PHYSICAL EDUCATION

Health

300 Health in the Elementary School	2
---	---

Physical Education

300 Physical Education in the Elementary School	2
Activity courses	2
Minimum in Health and Physical Education	(6)

k. A minor in an approved academic field 18
(See p. 102 for the list of approved academic minors)

l. MILITARY SCIENCE (Men)

or	8
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ELECTIVES (Women)

Minimum for the Degree	128
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II. The Bachelor of Arts Degree and the Provisional High School Certificate

a. EDUCATION		Sem. Hrs.
100	Orientation in Education	1
210	Human Growth and Development I	3
300	Introduction to Student Teaching	1
477	Professional Semester	15
	Minimum in Education	(20)
b. COMMUNICATIONS AND HUMANITIES		
English		
101	Composition I	3
102	Composition II	3
202	Introduction to Literature	3
Elective from Communications and Humanities— two fields		9
	Minimum in Communications and Humanities	(18)
c. SCIENCE AND MATHEMATICS		
(Note exceptions p. 105)		
Science		
103	Introduction to Physical Science	3
105	Introduction to Biological Science	3
Elective in Science and/or Mathematics		6
	Minimum in Science and Mathematics	(12)
d. SOCIAL SCIENCE (Note exceptions p. 105)		Sem. Hrs.
Social Science		
300	Current World Problems	3
	Elective in Social Science	6
History		
400	American Foundations	3
	Minimum in Social Science	(12)
e. PSYCHOLOGY		
153	General Psychology	3
f. HEALTH AND PHYSICAL EDUCATION		
Health		
150	Personal Health	2

Physical Education

Activity courses	2
Minimum in Health and Physical Education	(4)

g. MAJOR STUDY

Two academic majors of not less than 30 semester hours each; or one academic major of not less than 30 semester hours and two academic minors of not less than 21 hours each; or one academic major of not less than 30 semester hours and an approved minor of not less than 21 hours with a minimum in the combination of 54 hours; or an area of concentration of not less than 48 hours 51-72

h. MILITARY SCIENCE (Men)

or	8
ELECTIVE (Women)	
Minimum for the Degree	128

III. The Bachelor of Arts Degree (Without a Certificate)

a. FOREIGN LANGUAGE	Sem. Hrs.
One foreign language	12
b. MATHEMATICS	
College Algebra and Trigonometry or the equivalent	6
c. ENGLISH	
101 Composition I	3
102 Composition II	3
202 Introduction to Literature	3
Elective in Literature	3
Minimum in English	(12)
d. SCIENCE (See exceptions p. 105)	
103 Introduction to Physical Science	3
105 Introduction to Biological Science	3
Elective in Science	6
Minimum in Science	(12)
e. SOCIAL SCIENCE (See exceptions p. 105)	Sem. Hrs.
Social Science	
300 Current World Problems	3
Elective in Social Science	6

History		
400 American Foundations	3	
Minimum in Social Science		(12)
f. PSYCHOLOGY		
153 General Psychology	3	
g. HEALTH AND PHYSICAL EDUCATION		
Health		
150 Personal Health	2	
Physical Education		
Activity courses	2	
Minimum in Health and Physical		
Education		(4)
h. MAJOR STUDY		
Two academic majors of not less than 30 semester		
hours each; or one academic major of not less than		
30 semester hours and two academic minors of not		
less than 21 hours each; or one academic major of		
not less than 30 semester hours and an approved		
minor of not less than 21 hours with a minimum in		
the combination of 54 hours; or an area of concen-		
tration of not less than 48 hours	51-72	
i. MILITARY SCIENCE (Men)		
or	8	
ELECTIVES (Women)		
Minimum for the Degree	128	

THE BACHELOR OF SCIENCE DEGREE

I. The Bachelor of Science Degree and the Provisional High School Certificate

The requirements for this degree are the same as those for the Bachelor of Arts Degree and the Provisional High School Certificate with the following exception—To qualify for the Bachelor of Science degree the student must earn credit for a minimum of 60 semester hours in the following subjects—agriculture, biology, business, chemistry, geoscience, home economics, industrial arts, library science, mathematics, military science, and physics.

II. The Bachelor of Science Degree (Without a Certificate)

The requirements for this degree are the same as those specified for the Bachelor of Arts Degree (Without a Certificate)

with the following exceptions—(a) To qualify for the Bachelor of Science degree the student must earn credit for a minimum of 60 semester hours in the following subjects—agriculture, biology, business, chemistry, geoscience, home economics, industrial arts, library science, mathematics, military science and physics; and (b) there is no foreign language requirement for this degree.

GRADUATE DEGREES

For the requirements for the several graduate degrees offered see the section on Graduate Study in this catalog and also the relevant references in the various departments and divisions offering these degrees.

MOREHEAD COMMUNITY COLLEGE PROGRAM

At the 1966 session of the General Assembly, House Bill (KRS 164.295 and 164.580) was enacted into law and gave Morehead State University the authority to "provide programs of a community college nature in its own community comparable to those listed for the University of Kentucky Community College System."

To meet the needs of students who desire programs of study of less than four-years duration, Morehead has developed several one- and two-year programs. These programs are designed for those students who wish to—

1. prepare for employment following a short and intensive period of instruction;
2. meet the entrance requirements of certain professional schools;
3. prepare for eventual enrollment in a four-year program; or
4. complete a general junior-college program.

Students who complete a prescribed one-year terminal program with an average standing of "C," or higher, receive a Certificate; and students who complete a prescribed two-year program with an average standing of "C," or higher, are awarded the appropriate Associate Degree.

Credit earned in these programs, in most instances, may be applied without any loss on a four-year program if the student desires to complete the requirements for a baccalaureate degree; and students enrolled in the Morehead Community College have all the rights and privileges of those who are enrolled in the senior-college programs.

For additional information concerning these one- and two-year programs consult the following references in this Catalog:

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Graduate Study

Morehead State University offers the following graduate degrees:

Master of Arts with majors in English or History

Master of Science with a major in Biology

Master of Music Education

Master of Music

Master of Arts in Education with emphases on elementary teaching, secondary teaching, guidance and counseling, library science, and special education

Master of Higher Education

In addition, several post baccalaureate non-degree programs are available:

A fifth-year program of 32 semester hours which qualifies Kentucky teachers for Rank II on the state's salary schedule and provides for renewal of the Provisional Certificate

A sixth-year program designed to qualify public school personnel for Rank I on the Kentucky salary schedule

Post-master's program for the certification of principals and supervisors

A joint doctoral program with the University of Kentucky

Requirements:

For Admission to Graduate Study:

Admission to graduate study is granted to students who meet the academic requirements and who hold a baccalaureate degree from Morehead State University or some other accredited institution of higher education, and to certain qualified Morehead seniors.

The general requirement for *unconditional admission* is an overall quality-point average of 2.5 (4.0 scale). In addition, for all degree programs except the Master of Arts in Education, the applicant must have a quality-point average of 3.0 on all course work above the freshman level in his major discipline.

Seniors at Morehead who meet the academic requirements and who lack no more than six semester hours for completion of the requirements for the baccalaureate degree may apply for permission to enroll in graduate courses concurrently with the remaining undergraduate work. Application is made to the Dean of Graduate Programs

on a form supplied by the graduate office. A senior taking graduate courses may not enroll for more than 14 hours of course work. If admitted, such a student registers as a senior.

A student who has been admitted to a graduate program in another accredited graduate school may enroll at Morehead as a *transient student*. Instead of submitting a transcript of his previous college work, he may supply a letter from the dean of his graduate school stating that he is a graduate student in good standing and has permission to enroll for graduate work at Morehead State University. He must also file an application for graduate study at Morehead as a transient student.

A student who meets the requirements for admission to graduate study, but who does not wish to work for a graduate degree may enroll as an *unclassified* student. Such students are reminded that no more than eight semester hours of credit earned as an unclassified student may later be applied toward a master's degree, and only then at the discretion of his advisor and the Dean of Graduate Programs.

International students, when qualified for admission, are required to take the English Language Institute Test of the University of Michigan or the Test of English as a Foreign Language (TOEFL) given by the Educational Testing Service. They will be officially admitted and issued a Form I-20A only after the graduate office has been notified that they have passed the English Test successfully. The TOEFL examination is given regularly in most foreign countries. For further information regarding these tests, the applicant should contact the U. S. Consul in the country in which he resides.

Graduates of non-accredited colleges must meet the Morehead requirements for graduation before their applications for graduate study will be approved. If a student's undergraduate preparation is inadequate, this deficiency must be satisfied by taking designated courses that will not be counted as graduate credit.

For Admission to Candidacy:

A student is eligible to apply for candidacy for a master's degree when the following requirements have been met—

The Graduate Record Examination scores on the Aptitude, Area, and Advanced tests have been received by the Dean of Graduate Programs. (Arrangements for these tests must be made with the Testing Bureau during the week of registration.)

From 10-15 semester hours of credit must have been completed with a minimum quality-point average of 3.0 (on a 4.0 scale). Students in education must have completed two of the basic courses, including Education 500, and one course outside of education before applying for candidacy.

For a Master's Degree:

Residence Requirements.—A minimum of 30 semester hours of graduate credit without a thesis or 24 semester hours with an acceptable thesis and a minimum of 36 weeks of residence are required for completion of a master's degree program. (In evaluating residence credit for part-time work one semester hour entitles the student to one and one-half weeks of residence, except that short courses—workshops, etc.,—carry the same residence allowance that the course carries credit, and a maximum of nine weeks of residence may be earned during a summer session of eight weeks.

A minimum of 24 semester hours of graduate work must be completed in residence, i.e., not more than six hours of approved transferred work, or work done in off-campus study centers, will be accepted toward the minimum standards for the master's degree. No graduate credit may be earned by correspondence.

A minimum of one-half of the course requirements and at least one-half of the residence work must be completed as a full-time student.

Course Requirements.—Fifty per cent of the total course work (minimum of 15 hours) offered for the degree must be earned in courses open only to graduate students.

Fifty per cent of the total course work (minimum of 15 hours) must be earned in one field of study.

A minimum average of "B" is required on all credit offered for the degree and no credit is allowed for a grade below "C".

A maximum of six semester hours of graduate credit earned at another institution may be accepted provided—

1. the credit has been earned at an accredited graduate institution within five years of the date on which the requirements for the degree are completed;
2. the credit is acceptable toward a comparable degree at the institution from which transfer is sought;
3. the courses to be transferred are approved by the Dean of

Graduate programs and the dean of the school in which the same or similar courses are offered at Morehead; and

4. the student has maintained a "B" average on all graduate work shown on the transcript, and only those courses with a grade of "B" or better are to be transferred.

Students who wish to take courses elsewhere for eventual transfer to Morehead should secure prior approval from the Dean of Graduate Programs at Morehead.

Thesis:

For most master-degree programs at Morehead a thesis is required and a maximum of six semester hours of credit may be allowed. The student who expects to continue his training beyond the master's level will find the preparation of a thesis invaluable, and other capable students may find the experience to be of great worth.

Language Requirements:

The Master of Arts and Master of Science degree programs require a reading knowledge of a modern foreign language. Arrangements for the language proficiency examination should be made with the student's advisor and/or the Dean of Graduate Programs.

Graduation:

All credit offered for a master's degree must have been completed within five years immediately preceding granting of the degree.

The student must pass a comprehensive examination—oral and/or written—in his field, or fields, of study during the final term of his program. This examination includes the student's defense of his thesis if a thesis is written.



SCHOOL OF APPLIED SCIENCES AND TECHNOLOGY

C. Nelson Grote, Dean

Agriculture

Business

Home Economics

Industrial Education



MOREHEAD STATE UNIVERSITY

Agriculture

Mr. Derrickson, Head of the Department

Mr. Cain

Mr. Wade

Mr. Wolfe

Course offerings in the Department of Agriculture are designed to afford students the opportunity of pursuing study in the fields of agriculture in which they are most interested.

The primary objectives of the four-year program are to give a more thorough preparation in the sciences, develop basic practices in agriculture, and prepare students for graduate study.

Other objectives are—

1. To assist in the development of abilities required by those persons preparing to enter professional fields of agriculture.
2. To prepare workers to enter or up-grade themselves in non-farm agricultural jobs which require knowledge and skills in agriculture.
3. To assist students and farm operators in developing those competencies required for successful farming.
4. To develop a greater appreciation for the rural way of life.

Requirements:

For an Area of Concentration:

To receive a bachelor's degree with an Area of Concentration in Agriculture, the student must complete a minimum of 55 semester hours in the field of agriculture. Eighteen of these hours may be selected in the field of specialization such as — Animal Science, Agronomy, Agricultural Business, Agricultural Economics, or Horticulture.

More specifically, the requirements for this area are:	Sem. Hrs.
Agriculture 101, 133, 136, 180, 203, 211, 215, 237, 260*, 301, 305, 316, and 471 -----	37
Restricted electives in agriculture approved by the advisor -----	18
Minimum for the Area -----	55

*May substitute I. E. 160

For a Major (Four-Year Program):

Agriculture 133, 180, 203, 211, 215, 260*, 301, 316, and 471 -----	28
Elective in agriculture approved by the advisor -----	3
	<hr/>
Minimum for the Major -----	31

*May substitute I.E. 160.

For a Minor (Four-Year Program):

Agriculture 101, 133, 180, 203, 211, 215, and 471 ----	18
Elective in agriculture approved by the advisor -----	3
	<hr/>
Minimum for a Minor -----	21

For the Associate of Applied Science (Agricultural Business):

Agriculture 133, 180, 203, 211, and 305 -----	15
Electives in agriculture approved by the advisor ----	9
	<hr/>
Minimum in Agriculture -----	24*

*See p. 121 for other requirements in this program.

For the Associate of Applied Science (Farm Production):

Agriculture 133, 180, 203, 211, 215, 237, 301 and 316 --	25
Electives in agriculture approved by the advisor ----	12
	<hr/>
Minimum in Agriculture -----	37*

*See p. 120 for other requirements in this program.

Two-Year Program in Farm Production Technology

(For students primarily interested in such fields as farm production, farm management, certain U.S.D.A. services and various other positions requiring technical proficiency in agriculture.)

Required Courses in Agriculture:	Sem. Hrs.
Agriculture 133, 180, 203, 211, 215, 237, 301, and 316 --	25
To be selected from Agriculture 136, 213, 216, 304, 305, 311, 312, 314, 315, 336, 343, 344, 345, 384, or 415	12
	<hr/>
Minimum in Agriculture -----	37

Additional Requirements:

English 101	3
Business 221 or Speech 110	3
Chemistry 111 and three hours elective in science	7
Psychology 153	3
Sociology 170	3
Military Science	8
<hr/>	
Total Additional Requirements	27
Minimum Requirements for Degree	64

Two-Year Program in Agricultural Business

(For students interested in a wide range of jobs in agricultural businesses, governmental agencies serving the farmer, sales and managerial aspects of the agricultural industry.)

Required Courses in Agriculture: Sem. Hrs.

Agriculture 133, 180, 203, 211, and 305 15

Animal Science option:

To be selected from Agriculture 237, 316, 336, 343,
344, or 345 9

Crop Science option:

To be selected from Agriculture 215, 311, 312, 314,
316, 320, or 384 9

Agricultural Management option:

To be selected from Agriculture 170, 201, 301, or 305 9

Horticulture option:

To be selected from Agriculture 213, 215, 216, 315,
320, 321, or 334 9

Minimum in Agriculture 24

Additional Requirements: Sem. Hrs.

Business 160, 211 or 212, 221, 281, and 350 14

English 101 3

Speech 110 3

Psychology 153 3

Sociology 170 3

Chemistry 111 and three hours elective in science .. 7

Military Science 8

Total Additional Requirements 41

Minimum Requirements for Degree 65

For Vocational Agricultural Education:

For students to qualify to teach Vocational Agriculture in the public schools of Kentucky they must:

- A. Complete the course requirements in the area of concentration, with a minimum of six (6) hours in at least five (5) of the areas listed below, one area of which shall be agricultural mechanics, and the courses in agricultural education.

Animal Science
Plant Science
Soil Science
Horticulture Science
Agricultural Economics
Agricultural Mechanics

- B. Additional requirements: Sem. Hrs.

Agriculture 304 -----	3
Biology 414 -----	3
Military Science -----	8

- C. Take the following professional education courses at the University of Kentucky:

Agricultural Education 181, Teaching Vocational Agriculture* -----	15
Agricultural Education 182, Adult Farmer Schools and Young Farmer courses in Agriculture -----	3

It is suggested that the student complete his B. S. Degree in Agriculture at Morehead State University by taking additional electives, four hours which should be in Education 210 and 300. A student would then complete the eighteen hours of Agricultural Education at the University of Kentucky, which would entitle him to teach vocational agriculture in Kentucky**. This professional semester may be completed, however, by spending the last semester at the University of Kentucky with the Bachelor of Science degree granted by Morehead State University.

*A student must have an overall standing of at least 2.5 before being permitted to take the semester of student teaching.

**Must be approved by the teacher-education staff and recommended for certification by the staff.

PRE-FORESTRY

The State of Kentucky is a participating member in the Southern Regional Education Board's plan for the preparation of foresters and associated professions. Arrangements have been made with North Carolina State College, Auburn University, University of Florida, University of Georgia, and Louisiana State University to accept students from Morehead State University who meet their entrance requirements. Most Kentucky students attend North Carolina State College at Raleigh. Only Kentucky residents are eligible for stipends under this arrangement. A committee representing the Regional State Universities and the University of Kentucky assists the students in getting their credentials in order to meet the entrance requirements. To be nominated, a student must not have any D's or E's in his required work and must have a standing of 2.25 (C plus) in the two-year pre-forestry program. A student should keep in close touch with his adviser so as to meet all requirements at the specified time. Students receiving these appointments are admitted to the forestry school they choose and can qualify to enter on the same basis as residents of the state where the forestry school is located. The State of Kentucky defrays the out-of-state tuition during the remaining two-year program and \$60.00 toward the tuition needed for the required summer session between the junior and senior years. If admission to the program sponsored by the Southern Regional Board is not secured at the end of two years, most of the credits may be applied toward a degree at Morehead State University.

FRESHMAN YEAR

First Semester		Second Semester	
Chem 111—General Chemistry	4	Chem 112—General Chemistry	4
Eng 101—Composition I	3	Eng 102—Composition II	3
Ag 160—Intro. to Forestry	3	Biol 215—General Botany	4
Sci 105—Intro. to Biol. Sci.	3	Math 141*—Plane Trigonometry	3
Math 152*—College Algebra	3	PE Activity course	1
Military Science	2	Military Science	2
	18		17

*If a student is exempted from this course by the Freshman Placement Examination, three hours of elective may be substituted.

SOPHOMORE YEAR

First Semester		Second Semester	
Phys 131—Elementary Physics I	4	Phys 132—Elementary Physics II	4
Eng 202—Intro. to Literature	3	Ag 211—Soils	3
Ag 203—Agri. Economics	3	Math 275—Anal. Geom. & Calculus II	4
Math 175—Anal. Geom. & Calculus I	4	Soc. Sci. or Humanities	
Military Science	2	Elective	6
	16	Military Science	2
			19

PRE-VETERINARY MEDICINE

The State of Kentucky is a participating member in the Southern Regional Board's plan for the preparation of veterinarians. Students interested in becoming veterinarians may enroll in the Department of Agriculture at Morehead State University to complete their requirements for admission to the study of veterinary medicine. Arrangements have been made with Auburn University at Auburn, Alabama, to accept students from Morehead State University who meet their entrance requirements.

Auburn accepts fourteen students from Kentucky each year. The State of Kentucky pays the out-of-state tuition for residents through the Southern Regional Education Board. Applicants must have a standing of 2.25 on all courses. Applicants must not have a grade of D on any required course. The following schedule is for students who wish to complete their requirements in four semesters.

FRESHMAN YEAR

First Semester			Second Semester		
Eng	101—Composition I	3	Eng	102—Composition II	3
Math	152—College Algebra	3	Math	141—Plane Trigonometry	3
Chem	111—General Chemistry I	4	Chem	112—General Chemistry II	4
Biol	208—Invertebrate Zoology	3	Biol	209—Vertebrate Zoology	3
Ag	133—Farm Livestock Prod.	3	Ag	237—Poultry Production	3
	Military Science	2		Military Science	2
		18			18

SOPHOMORE YEAR

First Semester			Second Semester		
Phys	131—Elementary Physics I	4	Biol	334—Entomology	3
Chem	326—Organic Chemistry I	4	Phys	132—Elementary Physics II	4
Ag	316—Feeds and Feeding	4	Chem	327—Organic Chemistry II	4
Biol	304—Genetics	3	Hist	241—U. S. of Amer. 1492-1865	3
PE	Activity course	1	or		
	Military Science	2	Hist	242—U. S. of Amer. Since 1865	3
				Military Science	2
				*Medical Vocabulary	3
		<hr/>			<hr/>
		18			19

*Medical Vocabulary should be taken by correspondence during the summer from Auburn University. Two semesters of a modern language may be substituted on approval of the adviser.

SUGGESTED PROGRAMS

The following programs have been devised to help students in selecting their courses and making their schedules. These suggested schedules need not be followed specifically from semester to semester, but close adherence to them will aid the student in meeting requirements for graduation.

Bachelor of Science Degree with an Area of Concentration in Agriculture (Non-Teaching)

FRESHMAN YEAR

First Semester			Second Semester		
Eng	101—Composition I	3	Eng	102—Composition II	3
PE	Activity course	1	ES	100—Physical Geology	3
Sci	105—Intro. to Biological Sci.	3	Ag	136—Principles of Dairying	3
Ag	101—General Agriculture	2	Ag	180—Elem. Field Crops	3
Ag	133—Farm Livestock Prod.	3	Math	152—College Algebra	3
Psy	153—General Psychology	3		Military Science	2
	Military Science	2			
<hr/>			<hr/>		
17			17		

SOPHOMORE YEAR

First Semester			Second Semester		
Ag	170—Rural Sociology	3	Ag	211—Soils	3
Ag	215—Horticulture	3	PE	—Activity course	1
Chem	111—General Chemistry I	4	Chem	112—General Chemistry II	4
Math	141—Plane Trigonometry	3	Eng	202—Intro. to Literature	3
Hlth	150—Personal Health	2	Spch	110—Basic Speech	3
	Military Science	2		Military Science	2
<hr/>			<hr/>		
17			17		

JUNIOR YEAR

First Semester			Second Semester		
Ag	203—Agricultural Economics	3	Ag	237—Poultry Production	3
Ag	305—Marketing of Farm Prod.	3	Ag	301—Farm Management	3
Ag	316—Feeds and Feeding	4	Ag	386—Welding	2
SS	300—Current World Problems	3	Biol	209—Vertebrate Zoology	3
IE	160—Int. to Power and Fl. Mech.	3	Biol or Biol	304—Genetics	3
				English Elective	3
				Social Science Elective	3
<hr/>			<hr/>		
16			17		

SENIOR YEAR

First Semester			Second Semester		
Hist	400—American Foundations	3	Ag	Area Requirements	9
Ag	471—Seminar	1		Social Science Elective	3
	Ag. Area Requirements	9		Elective	3
	Humanities Elective	3			
<hr/>			<hr/>		
16			15		

Bachelor of Science Degree with a Major in Agriculture (Non-Teaching)

FRESHMAN YEAR

First Semester			Second Semester		
Eng	101—Composition I	3	Eng	102—Composition II	3
PE	Activity course	1	Geol	100—Physical Geology	3
Sci	105—Intro. to Biological Sci.	3	Ag	136—Prin. of Dairying	3
Ag	101—General Agriculture	2	Ag	180—Elem. Field Crops	3
Ag	133—Farm Livestock Prod.	3	Math	152—College Algebra	3
Psy	153—General Psychology	3		Military Science	2
	Military Science	2			
<hr/>			<hr/>		
17			17		

SOPHOMORE YEAR

First Semester			Second Semester		
Ag	170—Rural Sociology	3	Eng	202—Intro. to Literature	3
Ag	215—Horticulture	3	Ag	211—Soils	3
Chem	111—General Chemistry I	4	Chem	112—General Chemistry II	4
Hlth	150—Personal Health	2	PE	—Activity course	1
	Social Science Elective	3	Spch	110—Basic Speech	3
	Military Science	2		Military Science	2
<hr/>			<hr/>		
17			16		

JUNIOR YEAR

First Semester			Second Semester		
SS	300—Current World Problems	3	Ag	301—English Elective	3
Ag	203—Agricultural Economics	3		Farm Management	3
Ag	316—Feeds and Feeding	4		Social Science Elective	3
Math	141—Plane Trigonometry	3		Electives	6
	Elective	3	<hr/>		
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SENIOR YEAR

First Semester			Second Semester		
Hist	400—American Foundations	3		Agriculture Elective	3
Ag	471—Seminar	1		Electives	12
	Humanities or Com. Elect.	3	<hr/>		
	Electives	8	15		
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DESCRIPTION OF COURSES

Agriculture 101. General Agriculture. Two hours.

The importance of agriculture in the community, state, nation and world; changes occurring in the industry and their impact on the total society. Rural-urban interdependence, agriculturally related hobbies, and the growing importance of rural recreation in the agricultural economy will be stressed. Emphasis is placed on careers in the agricultural industry.

Agriculture 133. Farm Livestock Production. Three hours.

The importance of livestock products in the national economy; fundamental genetics, nutrition, and physiology of beef and dairy cattle, swine, and sheep; breeding, feeding, and management of beef and dairy cattle, swine, and sheep; and marketing livestock.

Agriculture 136. Principles of Dairying. Three hours.

General management; general survey of breeds; selection, feeds, and care of dairy cattle; testing; composition, quality, food value, and consumption of dairy products. Principles of processing and manufacturing dairy products.

Agriculture 160. Introduction to Forestry. Three hours.

The profession of forestry, its scope and importance in state and federal programs; tree growth, forest management practices, utilization, and products; identification of forest trees and shrubs.

Agriculture 170. Rural Sociology. Three hours.

(Also Sociology 170)

A study of cultural and social organization of rural societies; socio-economic aspects of agriculture; conditions and movements of rural populations; rural social institutions and agencies; bio-social conditions; rural-urban relations; emphasis on the Appalachian Region.

Agriculture 180. Elementary Field Crops. Three hours.

Prerequisite: Science 105.

A study of the fundamentals of crop production; current practices in grain, pasture, forage, and medicinal crop production; the use of fertilizers, limestone, and chemicals; seed production and quality; morphology of crops. Two lectures and one two-hour laboratory per week.

Agriculture 201. Principles of Economics. Three hours.

(Also Economics 201)

Prerequisite: Sophomore standing.

Economic organization; production and the forms of business units; consumption and the laws of price, money, banking, and exchange; distribution of wealth and income.

Agriculture 203. Agricultural Economics. Three hours.

Prerequisite: Economics 201 or consent of the instructor.

Economic organization of the farm productive unit; concentration in principles of production economics, supply and demand schedules; the role of economic resources in our national economy.

Agriculture 205. Farm Records. Two hours.

Development and application of farm records necessary for farm business analysis including a study of types of inventories, depreciation schedules, cost determining, and record keeping. Design and availability of record systems for agricultural enterprises.

Agriculture 211. Soils. Three hours.

Prerequisite: Chemistry 111.

Study of origin, formation, composition, and classification of soils; the physical, chemical, and biological properties of the soil in relation to plant growth; the principles of soil management, conservation, and land use. Two lectures and one two-hour laboratory per week.

Agriculture 213. Landscape Gardening. Three hours.

An introduction to landscape gardening with emphasis on design, construction, planting, and maintenance of the home grounds. Includes site selection, establishing lawn grasses, selection and care of deciduous and evergreen trees and shrubs and use of herbaceous plants. Sketches and drawings of layouts will be made.

Agriculture 214. Landscape Plants. Three hours.

A study of ornamental trees, shrubs, and vines commonly used in landscaping. Emphasis is placed on identification, characteristics, adaptability, and maintenance including climatic, soil, exposure, and other environmental factors; pruning, mulching, fertilizers, disease and insect control.

Agriculture 215 Horticulture. Three hours.

A study of the basic principles underlying horticultural practices in fruit growing, vegetable gardening, landscape gardening, and floriculture. Includes site selection, importance of new varieties, cultural practices, and growth regulators; insects, diseases, and the importance of horticulture and human affairs is stressed.

Agriculture 216. Floriculture. Two hours.

The elementary principles of selection, identification, culture, and use of flowers and decorative plants, including such herbaceous ornamental plants as annuals, perennials, bulbs, and house plants. Emphasis is placed on the family residence and public buildings.

Agriculture 237. Poultry Production. Three hours.

Importance of poultry in the agriculture economy; principles of poultry production, including breeds and development, incubation, breeding, and genetics; management practices, housing, feeding, and nutrition; diseases and their prevention and control.

Agriculture 301G. Farm Management. Three hours.

Prerequisite: Agriculture 203.

Farm organization, fitting livestock and cropping programs into a functioning unit, profit maximization and least cost combination of resources for a specified level of production, efficient labor utilization, input-output analysis.

Agriculture 303. Land Economics. Three hours.

Prerequisites: Agriculture 203 and 211.

Farm selection and appraisal of land resources; adaptation of land as the basis for farm organization and agricultural production; study of land tenure systems; rights of ownership; recreational possibilities of non-productive land; land use approach to farm management. Two lectures and one two-hour laboratory per week.

Agriculture 304. Genetics. Three hours.

(Also Biology 304)

Prerequisite Biology 209 or 215.

Elementary Mendelism, cytological basis of Mendelism, sex-related inheritance, lethal genes, multiple alleles, collaboration of genes, quantitative inheritance, mutation theory of the gene, cytoplasmic inheritance, and evolution. Two lecture-discussion and two laboratory hours per week.

Agriculture 305G. Marketing of Farm Products. Three hours.

Development of geographical specialization, demand and supply schedules of agricultural products, price equilibrium, long and short run cyclical price movements, hedging in futures, demand expansion, increasing operational and pricing efficiency, specific commodity marketing.

Agriculture 311. Soil Conservation. Three hours.

Prerequisite: Agriculture 211.

Soil conservation as a problem of humanity; agricultural land resources, capabilities, and uses; extent of erosion, causes of erosion and its effect; soil conservation as it affects city and suburban dwellers; the soil and its classification; mapping; aims and principles of soil conservation; economics of soil conservation; conservation practices including contouring, terracing, strip farming, and sodded waterways. Two lectures and one two-hour laboratory per week.

Agriculture 312. Soil Fertility and Fertilizers. Three hours.

Prerequisite: Agriculture 211.

The history and technology of fertilizers; sources and methods of manufacture of fertilizer materials; profitable use of fertilizers and lime in soil management; fertility diagnosis by soil and plant analysis and nutrient deficiency symptoms in plants.

Agriculture 314. Plant Propagation. Three hours.

Prerequisite: Agriculture 215 or permission of the instructor.

A study of the principles and practices of the propagation of horticultural plants. Includes seeding, layering, cutting, division, grafting, and budding; use of rooting stimulants, types of facilities and equipment required and other cultural practices.

Agriculture 315. Fruit Production. Three hours.

Prerequisite: Agriculture 215 or permission of the instructor.

Importance of the fruit industry in the agricultural economy and geographical distribution in the United States. Includes trees, fruits, nuts, and small fruits; varieties of fruiting habits, sites, soils, pruning, pest control, planting and commercial marketing. Particular emphasis is placed on eastern Kentucky.

Agriculture 316. Feeds and Feeding. Four hours.

Prerequisite: Chemistry 111 and Agriculture 133.

Feeds and basic concepts of rations; fats, carbohydrates, proteins, and their metabolism; the role of minerals, vitamins, and hormones in animal nutrition; feeding standards, evaluation of feed stuff and ration formation; characteristics of ruminant and non-ruminant nutrition.

Agriculture 320. Principles of Vegetable Production. Three hours.

Prerequisite: Agriculture 215.

A study of the principles of commercial vegetable production and handling. Includes soil, ecological and economic factors which influence production; producing for fresh and processing markets; varieties, pest control, cultural practices, and mechanization. Special emphasis on eastern Kentucky.

Agriculture 321. Greenhouse Production. Three hours.

Agriculture 215 or permission of the instructor.

Study of the factors involved in locating, constructing, and equipping a greenhouse range. Includes importance of soil, soil sterilization, fertilization, watering and heating systems and other developments in greenhouse mechanization; types of structures and materials and methods of construction. Adaption to eastern Kentucky conditions are emphasized.

Agriculture 334. Entomology. Three hours.

(Also Biology 334)

Prerequisite: Biology 209.

General structure of insects, life histories, common orders and families; insects in relation to man.

Agriculture 336. Dairy Science. Three hours.

Prerequisites: Agriculture 133 and 136.

Principles of nutrition as applied to dairy cattle, records, breeding programs, herd operations, production of quality dairy products, and production and distribution costs.

Agriculture 343G. Beef Production. Three hours.

Agriculture 133 and 316 or approval of the department.

The history, development, and distribution of breeds; importance of the beef cattle industry; sources of cattle and carcass beef; production and distribution prices in steer feeding; commercial and purebred breeding herds.

Agriculture 344G. Swine Production. Three hours.

Prerequisite: Agriculture 133 and 136 or approval of the department.

History, development, and distribution of types and breeds; management practices, including nutritional problems in commercial and purebred herds.

Agriculture 345G. Sheep Production. Three hours.

Prerequisite: Agriculture 133 and 316 or approval of the department.

History, development and distribution of types and breeds; importance of the sheep industry; selection, breeding, feeding, and management of sheep; production and handling of wool.

Agriculture 384. Forage Crops. Three hours.

Prerequisite: Agriculture 180 and 211.

A study of the distribution of various forage crops and their adaptations to soil and climate; seeding rates and mixtures; productivity; and pest control. Two lectures and a two-hour laboratory each week.

Agriculture 386. Welding 386. Two hours.

(Also I.E. 386)

Prerequisite: Industrial Education 286 or consent of the instructor.

Laboratory experiences in the field of welding to include oxy-acetylene and AC/DC electric arc welding and cutting. A study of techniques, materials, processes, and care and use of equipment is made and individual problems completed. One lecture-discussion period and two laboratory periods per week.

Agriculture 415G. Animal Nutrition. Four hours.

Prerequisite: Agriculture 316.

Chemistry, metabolism, and physiological functions of nutrients; digestibility, nutritional balances, and measures of food energy; the nutritive requirements for maintenance, growth, reproduction, lactation and other body functions.

Agriculture 471. Seminar. One hour.

Prerequisite: Second semester junior standing.

Students are expected to assist in the identification of problems and issues reflected in the current professional agricultural literature. Through informal discussions, participants will be expected to develop further understandings of the underlying concepts of the place of technical and professional agricultural workers.

Agriculture 476. Special Problems. One to three hours.

Prerequisite: Upper division standing.

Designed for the purpose of permitting a student to do advanced work as a continuation of an earlier experience or to work in an area of special interest. The topic for investigation must be selected and approved prior to registration. Students will meet with their assigned advisers and agree upon arrangements, procedures, and requirements.

Agriculture 570. Research Problems. One to three hours.

This course offers the opportunity and challenge of a self-directed independent study on a special problem. Students must present a suggested problem as well as a justification for the study in written form. Each request will be considered on its own merit in relation to the special needs of the student.

Business

Mr. Adams, Head of the Department of Business Administration

Mr. Keller, Head of the Department of Business Education

Mr. Bizzell	Mr. Hinson	Mrs. H. Northcutt
Mrs. Black	Mr. James	Mr. Pierce
Mr. Blair	Miss Lightner	Mr. Ray
Miss Burford	Mrs. Luckey	Mr. Rivers
Miss Carte	Mr. Mahaney	Mr. Schlegel
Mr. Conyers	Mr. Miller	Mr. Sink
Miss Cox	Mr. Moore	Mrs. Spiceland
Mr. Galloway		Mr. Thompson

The Division of Business, School of Applied Sciences and Technology, seeks to fulfill its obligation to Morehead State University students, alumni, and the region it serves through the departments of Business Administration and Business Education. The Department of Business Administration is responsible for preparing the student for a career in business and providing a basis for further study of business administration at the graduate level. The Department of Business Education is responsible for the preparation of teachers of business, professional secretaries, office managers, and the administration of one- and two-year programs which prepare students for careers in the secretarial and clerical areas at the junior levels.

The Division of Business also serves the University by providing courses that contribute to the general education of the student in the areas of business administration and secretarial studies. Through cooperation with other schools and departments of the University, programs combining agriculture, industrial technology, home economics, and other academic areas with business studies are provided. The Division of Business provides continuing education to the area's schools, business firms, and individuals through teacher workshops, small business institutes, conferences, and correspondence courses.

BUSINESS ADMINISTRATION

The Department of Business Administration seeks to achieve the following objectives.

1. To prepare the student to assume managerial responsibilities as a professional manager or an owner-manager.
2. To provide a basic understanding of our business and economic system.
3. To provide the student who desires further study in business, a sound basis for graduate study.
4. To provide a basic knowledge of the functions of business and their interdependence and interrelatedness.
5. To provide the necessary specialization needed for beginning positions in business and government.
6. To provide courses of general educational value to university students enrolled in areas other than business administration.
7. To serve the wider community which the University serves through conferences, correspondence courses, and institutes in order that the region's economic potential may be enhanced.

The Department seeks to fulfil these objectives by providing a course of study which combines general education, a basic core of business administration courses required of all students in the area of business administration, and selected additional courses in the student's special field of interest.

These special-interest options permit students to pursue a field of specialization in the areas of finance, marketing, accounting, and management, depending on their occupational and academic interests. Students desiring a major in business administration rather than an area of concentration are expected to take the core program as their field of study. Students pursuing special combination curricula such as industrial technology-business and agriculture-business follow the prescribed programs of study shown elsewhere in the catalog.

Requirements for the Bachelor of Business Administration Degree:

The general education and core courses in this program are designed to give all business administration students a broad base on which to build their specializations. Since all business functions are interrelated, the potential business manager must be acquainted with the basic areas of finance, marketing, accounting, business law and communications. The general education and basic core courses required of all students enrolled in business administration are listed

here. Students are expected to plan their programs so that necessary prerequisites are met.

	Sem. Hrs.
I. Business Administration Core.....	31
Business 200, 221*, 252, 281, 282, 360, 461, 462, 465, and 471	
Economics 304	

*In addition to the basic core of business courses, the student must demonstrate competence in typing as a prerequisite to Business 221. This prerequisite may be met by passing a proficiency test, previous credit in typing, or completion of the beginning typing course.

II. One of the Following Options.....	20-21
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Accounting Option—The objective of the accounting option is to prepare students for executive positions in the various fields of accounting. The program is designed to provide the knowledge, breadth of preparation, and awareness of ethical standards necessary to assume responsibilities in business, government, or professional accounting.

Business 383, 384, 480, and 482	15
Selected from Business 328, 406, or 483	6

Finance and Insurance Option—This program of studies is recommended for those students who wish a background in financial management. Excellent career opportunities are available in consumer finance, banking, insurance, and business finance. The option is also designed to aid the student in handling his personal financial and investment problems.

Business 323, 384 and 408	10
Economics 443	3
Selected from Business 383, 406 and	
Economics 349, 441	7

Management Option—The management option is designed to prepare for entrance into managerial careers in personnel, production, or general man-

agement. Since management of business firms involves both human and technical skills, the program is broad.

Business 404, 410, and 480	10
Economics 302	3
Selected from Business 363 and Psychology 353 and business or economics above 300	6-9

**Marketing Option*—This option is arranged to prepare for entrance into marketing careers. The program is recommended for students who plan to work with sales departments of distributing and manufacturing concerns, wholesale establishments, advertising agencies, and agencies engaged in marketing research. It is also recommended for individuals who plan to work as speciality salesmen of consumer and industrial goods, and marketing management.

Business 350, 451, 452, and 455	12
Selected from Business 352, 353, 453, and 454	9

*Students following this program must earn credit in Sociology 101 before entering the program.

III. General Education	Sem. Hrs.
Communications and Humanities -----	15
English 101, 102, and 202	
Elective in English	
Speech 370	
Science and Mathematics -----	18
Science 103 and 105	
Elective in science	
Mathematics 152 and 353	
Social Science -----	15
Economics 201, 202, and 342	
Social Science 300	
History 400	
Psychology 153 -----	3
Health and Physical Education -----	4
Health 150	
Activity courses	

IV. Military Science (Men)	
or -----	8
Elective (Women)	
V. General Electives -----	13-14
Minimum for the Degree -----	128

Major in Business Administration (Non-Teaching):

The Core for the Bachelor of Business Administration degree, consisting of 31 semester hours of required work will serve as a major in business administration. In addition, students completing this major are advised to take Economics 201 and 202. Mathematics 353 is also recommended.

<i>Minor in Business Administration (Non-Teaching):</i>	Sem. Hrs.
Business 160, 281, 282, 360, 461, and 465 -----	18
Selected from 300 or 400 level courses -----	3-6
	<hr/>
	21-24

Major in Accounting (Non-Teaching):

Business 281, 282, 384, 461, 471, 480, 482, and 483 ---	24
Selected from Business 328, 383, or 406 -----	6-7
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	30-31

In addition to the courses specified above, the student completing a major in accounting is expected to include College Algebra, Principles of Economics, and Economic Problems in his program. A course in Statistics is also recommended.

Minor in Accounting (Non-Teaching):

Business 281, 282, 384, and 480 -----	14
Selected from Business 328, 383, 482, or 483 -----	7-9
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	21-23

PREPARATION FOR TEACHING

If a student wishes to concentrate his work in a single area he may complete the following area in business education. If this is done, no other major or minor is required. Upon completion of this program the student receives the Bachelor of Science degree and is

qualified for the Provisional High School Certificate valid for teaching either vocational business and office education or general business.

Area of Concentration in Business Education

Requirements:

- 9 hours in Accounting: 281, 282, and three hours elective
- 20 hours of Secretarial Studies: 14 hours required in: 212, 213, 221, 232, 331; 6 hours selected from 211, 231, 237, 332, 333.
- 18 hours in General Business: 9 hours required in: 101, 160, 461; 9 hours selected from: 200, 236, 350, 360, 362, 363, 364, 462, 465.
- 5 hours required in methods of teaching: 375a, 375b, 471b, 475.

52 hours

In selecting courses to fulfill the general requirements for graduation, the area in Business Education must include Economics 101, 202 and Speech 370.

MAJOR OR MINOR IN BUSINESS EDUCATION

Students who wish to use Secretarial Studies, General Business, or Accounting as a major or a minor may satisfy the requirements by completing any one of the following programs. It should be noted that completion of one of these specialized majors of 30 hours, or minors of 24 hours, entitles the student to a Provisional High School Certificate valid in business, provided he completes an additional teaching major or two teaching minors. (Students who complete one of these majors, or minors, are certified to teach only in that area of business subjects and not in other areas.) Since most business teachers in Kentucky teach in small high schools where they are expected to teach all the business subjects, these programs are recommended only for those who plan to teach in two fields and who may use business to supplement or broaden their background in this field or for possible vocational use.

For a Major in Secretarial Studies with Teacher's Certificate:

- 17 hours required in Secretarial Studies: 212, 213, 221, 232, 237, and 331.
- 6 hours required in General Business: 160, 281.
- 7 hours selected from: 200, 211*, 231*, 236, 282, 332, 333, and 364.
- 3 hours required in: 375a, 375b, and 471b.

33 hours

For a Minor in Secretarial Studies with Teacher's Certificate:

17 hours required in Secretarial Studies: 212, 213, 221, 232, 237, and 331.

2 hours required in: 375a and 375b.

5 hours in General Business: 160 and 2 hours selected from: 101, 200, 236, 281 or 364.

24 hours

For a Major in General Business with Teacher's Certificate:

6 hours required in General Business: 101, 160

9 hours required in Accounting: 281, 282, and one elective

2 hours required in Secretarial Studies: 212

4 hours required in: 375a, 471b, 475.

13 hours selected from: General Business and Secretarial Studies

34 hours

In selecting courses to fulfill the general requirements for graduation, the major in General Business must include Economics 201.

For a Minor in General Business with Teacher's Certificate:

6 hours required in General Business: 101, 160

9 hours required in Accounting: 281, 282, and one elective

2 hours required in Secretarial Studies: 212

3 hours required in: 375a, 475

4 hours selected from General Business and Secretarial Studies

24 hours

For a Major in Accounting with a Teacher's Certificate:

6 hours required in General Business: 101, 461

2 hours required in Secretarial Studies: 211*, or 212

3 hours required in Methods and Materials, Seminar: 471b, 475

10 hours required in Accounting: 281, 282, 384

3 hours in Accounting to be selected from: 383, 480, 483

9 hours to be selected from General Business and Accounting:
160, 200, 236, 364, 462.

33 hours

For a Minor in Accounting with a Teacher's Certificate:

10 hours required in Accounting: 281, 282, 384

3 hours in Accounting selected from: 383, 480, 483

2 hours in Materials and Methods: 475

9 hours required in General Business: 101, 160, 461

—
24 hours

It is strongly suggested that students with a major or minor in Accounting with a Teacher's Certificate include Economics 201-202 in their program.

*Cannot take 211 for credit if student has earned one credit in high school typewriting.

**Cannot take 231 for credit if student has earned one unit in high school shorthand.

SUGGESTED PROGRAMS

The following programs have been devised to help students in selecting their courses and making their schedules. These suggested schedules need not be followed specifically from semester to semester, but close adherence to them will aid the student in meeting all requirements.

Bachelor of Business Administration Degree**FRESHMAN YEAR**

First Semester			Second Semester		
Eng.	101—Composition I	3	Eng.	102—Composition II	3
P.E.	—Activity course	1	Math.	152—College Algebra	3
Sci.	103—Intro. to Physical Sci.	3	Sci.	105—Intro. to Biological Sci.	3
Bus.	160—Intro. to Business	3	Psy.	153—General Psychology	3
Hlth.	150—Personal Health	2		Elective	3
	Elective	3		Military (Men)	
	Military (Men)			or	2
	or	2		Elective (Women)	
	Elective (Women)				
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SOPHOMORE YEAR

First Semester			Second Semester		
Eng.	202—Intro. to Literature	3	Bus.	252—Math. of Finance	3
P.E.	—Activity course	1	Bus.	221—Business Communication	3
Bus.	281—Prin. of Accounting I	3	Bus.	282—Prin. of Accounting II	3
Econ.	201—Prin. of Economics	3	Econ.	202—Economic Problems	3
	Science Elective	3	Spch.	370—Bus. and Prof. Speech	3
	Military (Men)			Military (Men)	
	or	2		or	2
	Elective (Women)			Elective (Women)	
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JUNIOR YEAR

First Semester			Second Semester		
Bus.	200—Intro. to Data Proc.	3	Math.	353—Statistics	3
Bus.	465—Prin. of Management	3	S.S.	300—Current World Problems	3
	Bus. Admin. Option	7-8	Bus.	360—Corporation Finance	3
Econ.	304—Marketing	3		Bus. Admin. Option	3
				Science Elective	3
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16-17			15		

SENIOR YEAR

First Semester			Second Semester		
Bus.	461—Business Law I	3	Bus.	462—Business Law II	3
	Bus. Admin. Option	6	Bus.	471—Seminar	1
Econ.	442—Money and Banking	3		Bus. Admin. Option	3-5
	English Elective	3	Hist.	400—American Foundations	3
				Electives	3-5
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Bachelor of Science Degree with a Major in Business Administration

FRESHMAN YEAR

First Semester			Second Semester		
Eng.	101—Composition I	3	Eng.	102—Composition II	3
P.E.	—Activity course	1	Math.	152—College Algebra	3
Sci.	103—Intro. to Physical Sci.	3	Sci.	105—Intro. to Biological Sci.	3
Bus.	160—Intro. to Business	3	Psy.	153—General Psychology	3
Hlth.	150—Personal Health	2		Elective	3
	Elective	3		Military (Men)	
	Military (Men)			or	2
	or	2		Elective (Women)	
	Elective (Women)				
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17			17		

SOPHOMORE YEAR

First Semester			Second Semester		
Eng.	202—Intro. to Literature	3		English Elective	3
Bus.	281—Prin. of Accounting I	3	Bus.	282—Prin. of Accounting II	3
Econ.	201—Prin. of Economics	3	Econ.	202—Prin. of Economics	3
P.E.	—Activity course	1	Bus.	252—Math. of Finance	3
	Science Elective	3	Bus.	221—Business Communication	3
	Military (Men)			Military (Men)	
	or	2		or	2
	Elective (Women)			Elective (Women)	
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15			17		

JUNIOR YEAR

First Semester			Second Semester		
Bus.	200—Intro. to Data Proc.	3	S.S.	300—Current World Problems	3
Bus.	465—Prin. of Management	3	Bus.	360—Corporation Finance	3
Econ.	304—Marketing	3	Math.	353—Statistics	3
	Science Elective	3		Elective	6
	Elective	4	<hr/>		
16			15		

SENIOR YEAR

First Semester			Second Semester		
Bus.	461—Business Law I	3	Bus.	462—Business Law II	3
	Electives	12	Bus.	471—Seminar	1
			Hist.	400—American Foundations	3
				Electives	9
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Bachelor of Science Degree with a Major in Accounting (Non-Teaching)

FRESHMAN YEAR

First Semester			Second Semester		
Eng.	101—Composition I	3	Eng.	102—Composition II	3
P.E.	—Activity course	1	Math.	152—College Algebra	3
Sci.	103—Intro. to Physical Sci.	3	Sci.	105—Intro. to Biological Sci.	3
Bus.	160—Intro. to Business	3	Psy.	153—General Psychology	3
Hlth.	150—Personal Health	2		Elective	3
	Elective	3		Military (Men)	
	Military (Men)			or	2
	or	2		Elective (Women)	
	Elective (Women)				
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17			17		

SOPHOMORE YEAR

First Semester			Second Semester		
Eng.	202—Intro. to Literature	3		English Elective	3
Bus.	281—Prin. of Accounting I	3	Bus.	282—Prin. of Accounting II	3
Econ.	201—Prin. of Economics	3	Econ.	202—Prin. of Economics	3
Math.	141—Plane Trigonometry	3		Electives	6
P.E.	—Activity course	1		Military (Men)	
	Military (Men)			or	2
	or	2		Elective (Women)	
	Elective (Women)				
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15			17		

JUNIOR YEAR

First Semester			Second Semester		
Bus.	384—Intermed. Accounting	4	S.S.	300—Current World Problems	3
Bus.	461—Business Law I	3		Accounting Elective	3-4
	Science Elective	3	Bus.	480—Cost Accounting	4
	Elective	6		Science Elective	3
				Elective	3
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16			16-17		

SENIOR YEAR

First Semester			Second Semester		
Hist.	400—American Foundations	3	Bus.	483—Auditing	3
Bus.	482—Specialized Accounting	3		Accounting Elective	3-4
	Elective	9	Bus.	471—Seminar	1
				Elective	7-8
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Provisional High School Certificate with an Area of Concentration in Business Education

FRESHMAN YEAR

First Semester			Second Semester		
Eng.	101—Composition I	3	Eng.	102—Composition II	3
P.E.	—Activity course	1	Ed.	100—Orientation in Education	1
Sci.	103—Intro. to Physical Sci.	3	Sci.	105—Intro. to Biological Sci.	3
Bus.	101—Business Arithmetic	3	Bus.	160—Intro. to Business	3
Bus.	211—Beginning Typewriting	3	Bus.	212—Intermediate Typewriting	3
	or	2		or	2
Bus.	212—Intermediate Typewriting	2	Bus.	213—Advanced Typewriting	2
Psy.	153—General Psychology	3	Hlth.	150—Personal Health	2
	Military (Men)			Military (Men)	
	or	2		or	2
	Elective (Women)			Elective (Women)	
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17			16		

SOPHOMORE YEAR

First Semester			Second Semester		
Eng.	202—Intro. to Literature	3	Ed.	210—Human Gr. and Devel. I	3
Econ.	201—Principles of Economics	3	Econ.	202—Economic Problems	3
Bus.	231—Beginning Shorthand		Bus.	232—Intermediate Shorthand	
or		4	or		3-4
Bus.	232—Intermediate Shorthand		Bus.	331—Dictation and Transcription	
Bus.	281—Principles of Accounting I	3	Bus.	282—Principles of Accounting II	3
P.E.	—Activity course	1		Science or Math. Elective	3
	Military (Men)			Military (Men)	
	or	2		or	2
	Elective (Women)			Elective (Women)	
		<hr/> 16			<hr/> 17-18

JUNIOR YEAR

First Semester			Second Semester		
Ed.	300—Intro. to Student Teaching	1	S.S.	300—Current World Problems	3
Bus.	200—Intro. to Data Processing	3	Bus.	475—Teach. Bkpgg. and	
Bus.	221—Business Communication	3		Gen. Bus.	2
Bus.	237—Secretarial Skills	3	Bus.	332—Sec. Proc. and Practice	
	Accounting Elective	3		or	3
	Humanities or		Bus.	333—Adv. Dict. and Trans.	
	Com. Elective	3	Spch.	370—Bus. and Prof. Speech	3
				Science or Math. Elective	3
			Bus.	375—Meth. of Teach. Typing	
				and Shorthand	2
		16			16

SENIOR YEAR

First Semester			Second Semester		
Hist.	400—American Foundations	3	Ed.	477—Professional Semester	15
Bus.	350—Salesmanship	3		(The Professional Semester may be taken either semester of the senior year)	
Bus.	363—Office Management	3			
Bus.	461—Business Law I	3			
Bus.	—Seminar	1			
	Humanities or				
	Com. Elective	3			
		<hr/>			
		16	15		

Two-Year Program in Secretarial Science

The following program is designed to prepare for general secretarial work. However, if the student wishes to prepare for some type of special secretarial position—medical, legal, etc.—special substitutions may be made by consulting with the adviser.

FIRST YEAR

First Semester			Second Semester		
Eng.	101—Composition I	3	Eng.	102—Composition II	3
Bus.	211—Beginning Typewriting	2	Bus.	212—Intermediate Typewriting	2
or			or		
Bus.	212—Intermediate Typewriting	2	Bus.	213—Advanced Typewriting	3
Bus.	231—Beginning Shorthand	4	Bus.	232—Intermediate Shorthand	3-4
or			or		
Bus.	232—Intermediate Shorthand	4	Bus.	331—Dictation and Transcription	3
Bus.	160—Intro. to Business	3	Bus.	237—Secretarial Skills	3
Psy.	153—General Psychology	3		Science or Technology	3
	Military (Men)			Military (Men)	
	or			or	
	Elective (Women)	2		Elective (Women)	2
		<hr/> 17			<hr/> 16-17

SECOND YEAR

First Semester		Second Semester	
Bus.	213—Advanced Typewriting 2	Bus.	332—Sec. Proced. and Pract. 3
Bus.	331—Dictation and Transcription 3	Bus.	281—Prin. of Accounting I 3
or		Bus.	364—Personal Finance 2
Bus.	333—Adv. Dict. and Transcription 3	Bus.	236—Clerical Office Machines 2
Econ.	201—Principles of Economics 3	Spch.	370—Bus. and Prof. Speech 3
	Science or Technology 3	P.E.	—Activity Course 1
	Military (Men) 3		Military (Men) 2
	or 2		or 2
	Elective (Women) 16		Elective (Women) 16

Two-Year Program in Office Management

(A concentrated program designed to provide basic preparation for many business positions)

FIRST YEAR

First Semester		Second Semester	
Eng.	101—Composition I 3	Eng.	102—Composition II 3
Bus.	101—Business Arithmetic 3	Bus.	212—Intermediate Typewriting 2
Bus.	211—Beginning Typewriting 2	or	
or		Bus.	213—Advanced Typewriting 2
Bus.	212—Intermediate Typewriting 3	Bus.	236—Clerical Office Machines 3
Bus.	160—Intro. to Business 3	Bus.	237—Secretarial Skills 3
	Science or Technology 3		Science or Technology 3
	Military (Men) 2	P.E.	—Activity course 1
	or 2		Military (Men) 2
	Elective (Women) 16		or 2
			Elective (Women) 16

SECOND YEAR

First Semester		Second Semester	
Bus.	101—Business Arithmetic 3	Bus.	364—Personal Finance 2
Econ.	201—Principles of Economics 3	Bus.	282—Principles of Accounting II 3
Bus.	281—Principles of Economics I 3	Bus.	363—Office Management 3
Bus.	221—Business Communication 3	Bus.	350—Salesmanship 3
Psy.	153—General Psychology 3	Spch.	370—Business and Prof. Speech 3
Bus.	213—Advanced Typewriting 2		Military (Men) 2
or			or 2
	Elective in Business 16		Elective (Women) 16
	Military (Men) 2		
	or 2		
	Elective (Women) 16		

One-Year Clerical Program

(A program designed to provide the minimum preparation essential for employment in business)

First Semester		Second Semester	
Eng.	101—Composition I 3	Eng.	102—Composition II 3
Bus.	101—Business Arithmetic 3	Bus.	212—Intermediate Typewriting 2
Bus.	211—Beginning Typewriting 2	or	
or		Bus.	213—Advanced Typewriting 2
Bus.	212—Intermediate Typewriting 3	Bus.	236—Clerical Office Machines 3
Bus.	160—Intro. to Business 3	Bus.	237—Secretarial Skills 3
Psy.	153—General Psychology 3	Bus.	221—Business Communication 3
	Military (Men) 2		Military (Men) 2
	or 2		or 2
	Elective (Women) 16	P.E.	—Activity course 1
			16

One-Year Secretarial Program

(Basic preparation for initial employment as a secretary)

First Semester			Second Semester		
Eng.	101—Composition I	3	Eng.	102—Composition II	3
Bus.	211—Beginning Typewriting	2	Bus.	221—Business Communication	3
or			Bus.	212—Intermediate Typewriting	2
Bus.	212—Intermediate Typewriting	2	or		
Bus.	231—Beginning Shorthand	4	Bus.	213—Advanced Typewriting	2
or			Bus.	232—Intermediate Shorthand	3-4
Bus.	232—Intermediate Shorthand	3	or		
Bus.	160—Intro. to Business	3	Bus.	331—Dictation and Transcription	3
Psy.	153—General Psychology	3	Bus.	237—Secretarial Skills	3
	Military (Men)			Military (Men)	
	or	2		or	2
	Elective (Women)			Elective (Women)	
<hr/>			<hr/>		
17			16-17		

DESCRIPTION OF COURSES

Business 101. Business Arithmetic. Three hours.

Includes basic fundamentals of mathematics: fractions, decimals, and percentages; and an introduction to financial mathematics as it deals with overhead and profit, wages and salary records, borrowing and lending money, stocks and bonds, insurance, depreciation, and taxes.

Business 160. Introduction to Business. Three hours.

Basic survey course covering management, business organization, marketing, retailing, banking and finance, business risks, and insurance.

Business 200. Introduction to Data Processing. Three hours. (Formerly Business 300)

Prerequisite: Business students or consent of instructor.

Fundamentals of data processing, punched card applications, basic concepts of electronic computers, data-processing organization, and management responsibility toward information technology. Two lecture-discussion periods and one two-hour laboratory period.

Business 210. Computer Programming Fundamentals. Three hours.

Prerequisite: Business 200.

Technical experience in using a stored program computer. Emphasis is placed on the machine, its design, components and logical function. Machine language and the first-level Easycode Symbolic Programming System are used. Two lectures and one two-hour laboratory.

Business 211. Beginning Typewriting. Two hours.

Students who have received one unit of high school credit in typewriting are not permitted to enroll in this course for credit. Those students should enroll in Business 212. A beginning course that develops the basis for vocational skill in typewriting.

Business 212. Intermediate Typewriting. Two hours.

Prerequisite: Business 211 or one unit of typewriting in high school.

A continuation of Business 211 with emphasis on speed and control in the production of mailable copy.

Business 213. Advanced Typewriting. Two hours.

Prerequisite: Business 212.

Specific problems of production work that would be encountered in an office.

Business 221. Business Communication. Three hours.

Prerequisite: English 102 and a basic typing competence.

Principles, practices, and mechanics of modern business letter writing, report writing, and dictation; the psychology of tone in the preparation of effective letters of application, sales, adjustment, credit, and collection; principles applied by solving letter-writing problems.

Business 231. Beginning Shorthand. Four hours.

Prerequisite: Business 211 or equivalent.

Gregg shorthand theory, including beginning dictation and pre-transcription training. Students who have received one unit of high school credit in shorthand are not permitted to enroll in this course for credit. Five class periods a week.

Business 232. Intermediate Shorthand. Four hours.

Prerequisite: Business 231 or one year of shorthand in high school.

Review of theory covered in 231. Emphasis is placed on increased speed building in the recording and transcribing of mailable letters and five-minute dictation tests with attention to vocabulary building.

Business 236. Clerical Office Machines. Two hours.

Prerequisite: Business 101 or consent of instructor.

A basic survey course which introduces the 10-key adding and listing machine; full-keyboard adding and listing machine; and key-driven rotary calculators.

Business 237. Secretarial Skills. Three hours.

Prerequisite: Business 211 or 212.

Use of electric typewriter; study and application of duplicating.

Business 252. Mathematics of Finance. Three hours.

Prerequisite: Mathematics 152.

Interest; annuities; amortizations; sinking funds; bonds, depreciation; building and loan; life insurance; related topics.

Business 281. Principles of Accounting I. Three hours.

Prerequisite: Sophomore standing.

Meaning and purpose of accounting; the balance sheet; the income statement; books of original entry; special journals; adjusting and closing entries; controlling accounts; the voucher system; business practices and procedures. Three lecture-discussion periods and two hours of laboratory work per week.

Business 282. Principles of Accounting II. Three hours.

Prerequisite: Business 281.

Accounting for partnership formation, operation, dissolution and liquidation. Corporate accounts and records; corporate earnings, corporate ownership. Accounting for manufacturing firms; basic cost accounting procedures; departmental and branch accounting; consolidated statements; budgets; and analysis of financial statements. Three lecture-discussion periods and two hours laboratory work per week.

Business 323. Financial Markets. Three hours.

Prerequisite: Junior or senior standing.

A study of the institutions and the business factors that affect the demand for and the supply of funds and their effect on price movements. A detailed analysis of the money and capital markets.

Business 328. Governmental and Regulated Industry Accounting. Three hours.

Prerequisite: Business 282.

"Fund" or "Budget" accounting applications of local, state, and Federal Governmental Units and institutions. Budget preparation and theory. Accounting requirements in the regulation of industry—private and public—and application to cost and service requirements.

Business 331. Dictation and Transcription. Three hours.

Prerequisite: Business 212 and 232 or equivalent.

Review of basic principles. Increased emphasis on speed in recording and transcribing with the goal of mailable letters. Use of dictionaries and reference manuals stressed.

Business 332. Secretarial Procedures and Practice. Three hours.

Prerequisite: Business 331.

Materials, methods, and techniques that every secretary should know, including means of communication, handling the mail, human relations, public relations, and travel services.

Business 333. Advanced Dictation and Transcription. Three hours.

Prerequisite: Business 331.

Dictation and transcription of five-minute speed tests and mailable letters of increased difficulty. Office-style dictation and transcription of business correspondence.

Business 350. Salesmanship. Three hours.

(Formerly Business 450)

The role of selling in the American economy; the salesman's job and his qualifications; why people buy; price, discount, and credit practices; practical application and development of sales techniques by demonstration; and the selection, training and promotion of salesmen.

Business 352. Sales Management. Three hours.

Prerequisite: Economics 304 and Business 350.

Sales department organization, planning, territories, quotas and research; training, selection, supervision, comprehension of salesmen.

Business 353. Wholesaling. Three hours.

Prerequisite: Economics 304.

Types and classes of wholesale establishments; wholesale centers; organization and management of wholesale establishments; location, purchasing, stock control, advertising, selling, order filling, credit and expense.

Business 360. Corporate Finance. Three hours.

Prerequisite: Business 282 and Economics 202.

A study of financial management which includes the management of cash, receivables, inventories, plant assets, short term debt, intermediate term debt, long term debt and owner's equity.

Business 362. Consumer Education. Three hours.

(Also Home Economics 362)

Prerequisite: Economics 201.

Selection of consumer goods and services; buying habits; legislation and controls affecting branding, labeling and other industrial and economic problems that affect standards of living. Techniques of wise consumption; credit, budgeting, insurance, investing, producer and government aids.

Business 363. Office Management. Three hours.

(Formerly 464G)

Nature of office work, the office manager, office environment, furniture, equipment, supplies, systems analysis, implications of electronic data processing, records management, office personnel, the managerial functions applied to the office.

Business 364. Personal Finance. Two hours.

Budgeting, personal banking, consumer credit, insurance, investments, real estate, retirement planning. Not recommended for students who plan to take Consumer Education or Corporate Finance.

Business 375A. Methods of Teaching Typewriting. One hour.

Prerequisite: Business 212.

Different methods of presentation of typewriting; evaluation of textbooks; testing; determination of standards; supplementary reading and collateral materials available to the teacher. Each student is to prepare lesson plans and teach at least one demonstration lesson.

Business 375B. Methods of Teaching Shorthand. One hour.

Prerequisites: Business 232.

Different methods of presentation of shorthand; evaluation of textbooks; testing; determination of standards; supplementary reading and collateral materials available to the teacher. Each student is to prepare lesson plans and teach at least one demonstration lesson.

Business 383. Income Tax Procedure. Four hours.

Prerequisite: Business 282.

Federal tax legislation and returns for individuals, partnerships, and corporations; application of taxes to business decisions, planning and effect.

Business 384. Intermediate Accounting. Four hours.

Prerequisite: Business 282.

Accounting theory and its application to corporate, partnership, and proprietorship accounting. Accounting from the accountant's point of view.

Business 402G. Managerial Accounting. Three hours.

Prerequisite: Business 282.

Cost data from the point of view of how they may be used. Budgets, costs, and decision making. Course is not available to students who have credit in Business 480 (Cost Accounting). The course is designed primarily for non-accounting majors.

Business 404G. Production Management. Three hours.

Prerequisite: Economics 201, Business 480, Business 465.

(Some or all of these requirements may be waived with consent of instructor.)

Managerial organization for production; plant design and layout; control of production including investment in production equipment and materials; working capital, labor costs. Production operations including scheduling, routing and control.

Business 406G. Theory of Accounts. Three hours.

Prerequisite: Business 384.

A study of the development of accounting theory and its application to income measurement, asset valuation, and equities.

Business 408G. Risk Management and Insurance. Three hours.

Prerequisite: Economics 201.

The nature of risk and risk bearing; the organization operation of the insurance business; fundamentals of insurance contracts; and a survey of life, fire, and casualty insurance.

Business 410G. Personnel Management. Three hours.

(Formerly Business 510)

Prerequisite: Business 465 or permission of instructor.

To provide a basic knowledge of those personnel management principles and practices that have proved to be sound in the light of current research. Included in the course will be such topics as job requirements, selection techniques and procedures, testing programs, facilitation of employee adjustment, wage and salary administration, legal aspects of labor relations and financial incentives.

Business 451G. Retail Merchandising. Three hours.

Prerequisite: Business 450.

Establishing a store; store organizations; buying, pricing, and selling; planning and control; credit management; insurance; tax reports, and operating analysis; cases are used to emphasize the basic principles of retailing.

Business 452G. Marketing Research and Analysis. Three hours.

Prerequisite: Economics 304.

A study of using research to minimize error in decision-making. Individual studies will be made by students researching in all areas of marketing including advertising, packaging and marketing.

Business 453. Marketing Policies. Three hours.

Prerequisite: Economics 304.

An overview of marketing functions stressing formulation of policies and management of all marketing activities. Case studies will be used.

Business 454. Industrial Marketing. Three hours.

Prerequisite: Economics 304.

A study of problems involved uniquely in the marketing of industrial products as opposed to consumer goods. These problems include industrial product policies, distribution channels, and sales programs.

Business 455. Advertising Principles and Procedures. Three hours.

Prerequisite: Economics 304.

An analysis of advertising as an indirect selling technique; emphasis is placed on determining appeals, creating images and developing coordinated campaigns. Although an actual campaign will be developed by each student, stress will be placed on ideas and concepts rather than the actual mechanics of advertising such as art-work and typesetting.

Business 461G. Business Law I. Three hours.

Designed to acquaint the student with the basic principles of law as they apply to business. Areas include: social forces and the law, legal rights and remedies, court procedure, contracts, agencies, employment, negotiable instruments, personal property, bailments, and partnerships.

Business 462G. Business Law II. Three hours.

A continuation of Business 461G. Areas include: insurance, suretyship and guaranty, corporations, real property, mortgages and leases, trusts and estates, bankruptcy, and government regulation.

Business 465G. Principles of Management. Three hours.

Prerequisites: Business 282 and Economics 201.

History of management; the management process; the principles of management and their application in the operations of business. The fundamental concepts of management will be applied to such areas of business activity as organization, personnel, production, and research.

Business 471a. Seminar in Business Administration. One hour.

Prerequisite: Completion of Business Core and senior standing.

A course designed to integrate the various functional areas of business. The course will include student reports, guest lecturers and field trips. Emphasis will be directed toward individual study based on student interests.

Business 471b. Seminar in Business Education. One hour.

Prerequisite: Senior standing.

Provides an opportunity to become familiar with the literature in the field of business education and to study special problems in connection with the business curriculum and the objectives of business education courses in the junior and senior high school.

Business 475. Teaching Bookkeeping and General Business. Two hours.

Prerequisites: Business 281 and 282.

Different methods of presentation; evaluation of texts; test construction and evaluation; supplementary reading and collateral materials available to the teacher. Each student prepares lesson plans and teaches at least two demonstration lessons.

Business 476. Special Problems. One to three hours.

Prerequisites: Senior standing and prior consent of instructor.

Provides the opportunity and challenge of a self-directed independent study on a special problem. Students must present a suggested problem as well as a justification for the study in writing prior to registration. Each request will be considered on its own merit in relation to the special needs of the student.

Business 480. Cost Accounting. Four hours.

Prerequisite: Business 282.

Control and classification of costs with emphasis on the use of cost standards in control and decision making. A stress on principles but with adequate procedural work to assure student capabilities of dealing with actual cost systems.

Business 482G. Specialized Accounting. Three hours.

Prerequisite: Business 384.

Fiduciary and consolidation accounting. Special accounting problems of current interest to the accounting profession which are applicable to the CPA examination and which require the application of advanced accounting theory.

Business 483G. Auditing. Three hours.

Prerequisites: Business 384.

Application of accounting principles in analyzing the client's records; auditor's working papers; detail audit; internal audit; special audits; tests used in auditing; and the audit report.

Business 486G. Principles and Philosophy of Distributive and Vocational Education. Three hours.

Prerequisite: Senior or graduate standing.

Analysis of principles and philosophy of distributive education and vocational business education; interpretation of legislation concerning school accreditation for participation in distributive and vocational business education programs; organization and administration of distributive and vocational business education programs from the Federal to the local levels.

Business 490G. Economic Education for Business Teachers. Two hours.

Prerequisite: Senior or graduate standing.

Provides an overall understanding of basic economic concepts and methods of presenting these concepts to students of business courses. Designed for experienced business teachers and future business teachers.

Business 500. Foundations of Business Education. Three hours.

History, aims, and principles of business education and its contribution to general education; curricula and courses of study; guidance; teacher qualifications; supervision and public relations.

Business 501. Problems in Business Education. Three hours.

Problems of the students enrolled in the course will be given primary consideration. Suggested topics: testing, guidance; job studies; placement and follow-up layout and facilities; supervision; visual aids; utilization of community resources; curriculum trends; and application of research findings.

Business 521. Improvement of Instruction in Typewriting. Two hours.

Prerequisite: Graduate standing—a teaching knowledge of typewriting.

A study of recent developments in classroom methods of teaching typewriting; the psychology of learning applied to typewriting instruction; evaluation of recent trends in skill building, production standards, and techniques of evaluating students in the teaching of typewriting; examination and application of the findings of recent research pertaining to improvement of instruction in typewriting.

Business 522. Improvement of Instruction in Shorthand. Two hours.

Prerequisite: Graduate standing—a teaching knowledge of shorthand.

A study of improved methods and techniques of shorthand at the secondary and college levels; evaluation and revision of standards of achievement; updating teaching procedures basic to the development of vocational proficiency; evaluation and interpretation of recent research in the field of shorthand.

Business 576. Independent Research. One-three hours.

Prerequisite: Permission of the instructor.

Provides the opportunity and challenge of a self-directed, independent study on a proposal initiated by the student. The student must present a suggested problem as well as a justification for the study in writing. Each request is considered by the instructor on its own merit in relation to the special needs of the student involved. The result will be a documented paper to be placed in the library.

Home Economics

Miss Snyder, Head of the Department

Mrs. Bell
Miss Bolin

Mrs. Mahan
Mrs. Mallory

Miss McClaskey
Mrs. F. Patton

Objectives:

1. To meet the needs of students who wish to prepare for the dual career of a professional home economist and a home maker.
 - a. To help provide for the general education of the individual.
 - b. To establish a fundamental basis for family living.
 - c. To develop competencies required for a career in home economics.
2. To provide both elective and required courses for students in other fields of study.
3. To encourage and provide for continuous and professional growth of graduates through opportunities for advanced study.

Requirements:

For an Area of Concentration in Vocational Home Economics:

	Sem. Hrs.
I. General Education	50
Communications and Humanities	
English 101, 102, and 202	9
Humanities or Communications Electives	9
(Art 241 and 291 are required)	
Physical and Biological Science	15
Science 105	
Biology 232 or 317	
Chemistry 101 and 102	
Social Science	12
Sociology 101	
Economics 201	
Social Science 300	
History 400	
Psychology 153	3
Physical Education	2
Activity courses	

II. Professional Education -----	24
Education 100, 210, 300, 477	
Home Economics 470	
III. Home Economics -----	48
Clothing and Textiles -----	9
Home Economics 141, 240, and 241	
Family Economics and Home Management	8
Home Economics 362, 452, and 454	
Family Relations and Child Development	8
Home Economics 101, 355, and 453	
Foods and Nutrition -----	9
Home Economics 130, 231, and 431	
Health and Home Care of the Sick -----	3
Home Economics 303	
Housing, Home Furnishings and Equipment	9
Home Economics 251, 351, and 451	
Elective in Home Economics -----	2
IV. Unrestricted Electives -----	6
Minimum for the Degree -----	128

For the Area of Concentration in Clothing and Textiles (Non-Teaching):

This program of studies is designed to prepare individuals to enter careers in business or industry. Home economics courses are combined with selected courses in other fields to prepare students for positions in fashion retailing; textile technology; and clothing, textile, or interior design.

	Sem. Hrs.
I. General Education -----	47
English: Composition	6
Literature	6
Science: Chemistry	8
Bacteriology	4
Mathematics: Plane Trigonometry	3
College Algebra	3
Social Science: Current World Problems	3
American Foundations	3
Elective in social science	6
Psychology: General Psychology	3
Physical Education: Activity courses	2

II. Home Economics 130, 141, 240, 241, 303, 340, 341, 342, 346, 351, 362, 441, 442, 451, 452*, 453, 471, 344, or 480 -----	49
*HE 251 may be substituted for 452.	
III. SELECT ten hours from one of three following options-----	10
a. Option in Design (Interior, Textile, or Costume Design) Art 101, 161, 202, 204, 216, 381 Home Economics 251, 455 Industrial Education 102, 103, 305	
b. Option in Fashion Retailing Business 101, 160, 211 or 212, 281, 350, 451, 461 Economics 202, 304	
c. Option in Textile Technology Chemistry 326 or 222*, 223*, 331*, 332* Home Economics 343, 440, 444	
IV. Electives -----	22
Minimum for the Degree-----	128

For the Area of Concentration in Food Service Administration (Non-Teaching):

	Sem. Hrs.
I. General Education -----	56
English: Composition	6
Literature	6
Science: Introduction to Biological Science	3
Anatomy and Physiology	4
Bacteriology	4
Chemistry	8
Mathematics: Plane Trigonometry	3
College Algebra	3
Social Science: Principles of Economics	3
Current World Problems	3
American Foundations	3
Elective in Social Science	3
Psychology: General Psychology	3
Health and Physical	
Education: Personal Health	2
Activity courses	2

II. Basic Core Program	9
Home Economics 130 and 231	6
Selected from Home Economics 320 or 431	3
III. One of the Following Emphases	9
a. Food Service Administration	
Home Economics 430 and 432	6
Selected from Home Economics 330, 435, or 437	3
b. Education	
Education 410 and 423	6
Selected from Sociology 101 or 305, or Psychology 221	3
c. Experimental and Developmental Foods	
Home Economics 438	3
Selected from Home Economics 362 or 432, or Biology 417	6
IV. One of the Following Concentrations	15
a. Therapeutic and Administrative Dietetics	
Home Economics 436	3
Biology 495	4
Business 410 or Psychology 353	3
Education 410 or Psychology 389	3
Selected from Home Economics 330*, 332, 433, 435*, 437*, 438*, or Business 281	2-3
b. Business Administration	
Business 282 and 410	6
Home Economics 330*, 435, or 437*	3-9
Selected from Business 221, 461, Home Economics 453 or Business 461, Psychol- ogy 353, Economics 302, or Home Eco- nomics 332	0-6
c. Science: Foods and Nutrition	
Home Economics 436, 438, and 439	9
Biology 495	3
Selected from Home Economics 332, 433, Mathematics 353, Education 410, or Biology 415	3

*If not used in Emphasis

TIME SLIP

	approval of the advisor -----	31
	home economics -----	10
	and general electives -----	21
Week Ending _____		
Name _____	en) -----	8
Wednesday _____	Minimum for the Degree -----	128
Thursday _____	interested in receiving assistance in com-	
	junior-Senior and/or A.D.A. internship food	
Friday _____	may contact the various armed services	
	medical specialists corps concerning their	
Saturday _____	in programs. Men may apply their years of	
	and Selective Service obligations.	
Sunday _____		
Monday _____	ional): -----	Sem. Hrs.
	1 or 453, 130, 141, 231 or 431,	
Tuesday _____	1, 355, 362 or 452, and 471 -----	20
	economics approved by the advisor -----	10
TOTAL HOURS _____		30

Additional requirement: Art 291.

For a Minor:

Home Economics 130, 362, and 453 -----	9
To be selected from Home Economics 141 or 380 ---	3
To be selected from Home Economics 320 or 431 ---	3
Electives in home economics approved by the	
department -----	6
	21

SUGGESTED PROGRAMS

The following programs have been devised to help students in selecting their courses and making their schedules. These suggested schedules need not be followed specifically from semester to semester, but close adherence to them will aid the student in meeting the requirements for graduation.

Provisional High School Certificate with an Area in Vocational Home Economics

FRESHMAN YEAR

First Semester			Second Semester		
Eng.	101—Composition I	3	Eng.	102—Composition II	3
P.E.	—Activity course	1	Ed.	100—Orientation in Education	1
Art.	291—Color and Design	2	Psy.	153—General Psychology	3
Chem.	101—General Chemistry I	4	Chem.	102—General Chemistry II	4
H.Ec.	130—El. Foods and Nutrition		H.Ec.	141—Cloth. Design and Const.	
or		3	or		3
H.Ec.	141—Cloth. Design and Const.		H.Ec.	130—El. Foods and Nutrition	
H.Ec.	101—Personal and Family Living		Soc.	101—General Sociology	3
		2			
		<hr/> 15			<hr/> 17

SOPHOMORE YEAR

First Semester			Second Semester		
Ed.	210—Human Gr. and Devel. I	3	Eng.	202—Intro. to Literature	3
Sci.	105—Intro. to Biological Science	3	P.E.	—Activity course	1
Econ.	201—Principles of Economics	3	Biol.	232—Anatomy and Physiology	4
H.Ec.	231—Family Meal Management	3		or	
H.Ec.	240—Textiles	3	Biol.	317—Bacteriology	3
	Elective	2	H.Ec.	241—Family Clothing Problems	3
			H.Ec.	251—Household Equipment	3
			H.Ec.	303—Family Health	3
		17			17

JUNIOR YEAR

First Semester			Second Semester		
Ed.	300—Intro. to St. Teaching	1	Art.	241—Crafts I	2
S.S.	300—Current World Problems	3	H.Ec.	351—Housing	3
H.Ec.	362—Consumer Education	3	H.Ec.	431—Human Nutrition	3
H.Ec.	355—Child Development	3	H.Ec.	452—Home Management	2
	Humanities or Com.			Humanities or Com.	
	Elective	3		Elective	2
	Elective	2		Home Economics Elective	2
				Elective	2
		15			16

SENIOR YEAR

First Semester			Second Semester		
Hist.	400—American Foundations	3	Ed.	477—Professional Semester	15
H.Ec.	451—Home Furnishings	3	(The Professional Semester may be taken either semester of the senior year)		
H.Ec.	454—Home Management House	3			
H.Ec.	453—Problems of the Family	3			
H.Ec.	470—Meth. of Teaching H.Ec.	4			
		<hr/> 16			
			<hr/> 15		

Area of Concentration in Clothing and Textiles (Non-Teaching)

FRESHMAN YEAR

First Semester			Second Semester		
Eng.	101—Composition I	3	Eng.	102—Composition II	3
Art.	291—Color and Design	2		Social Science Elective	3
Chem.	101—General Chemistry I	4	Chem.	102—General Chemistry II	4
Math.	152—College Algebra	3	Math.	141—Plane Trigonometry	3
H.Ec.	141—Cloth. Design and Const.	3	H.Ec.	130—El. Foods and Nutrition	3
		<hr/> 15			<hr/> 16

SOPHOMORE YEAR

First Semester			Second Semester		
Eng.	202—Intro. to Literature	3		Humanities or Com. Elective	3
Sci.	105—Intro. to Biological Science	3	Psy.	153—General Psychology	3
H.Ec.	240—Textiles	3	P.E.	—Activity course	1
	Home Ec. Option	2	H.Ec.	241—Family Cloth. Problems	3
	Elective	3		Home Ec. Option	3
			H.Ec.	303—Family Health	3
		17			16

JUNIOR YEAR

First Semester			Second Semester		
Biol.	317—Bacteriology	4	P.E.	—Activity course	1
	Humanities or Com. Elective	3	S.S.	300—Current World Problems	3
H.Ec.	340—Textile Testing	3	H.Ec.	360—Consumer Education	3
H.Ec.	341—Flat Pattern Design	3	H.Ec.	451—Home Furnishings	6
or		2-3		Elective	
H.Ec.	342—Cloth. Design in Draping	4-5			
	Elective				
		17			16

SENIOR YEAR

First Semester			Second Semester		
H.Ec.	344—Historic Costume	3	H.Ec.	471—Seminar	1
or			H.Ec.	442—Soc.-Psy. Aspects of Cloth. and Textiles	3
H.Ec.	480—Historic Textiles			Humanities or Com. Elective	3
H.Ec.	441—Tailoring	2		Home Ec. Option	2
H.Ec.	453—Problems of the Family	3		Electives	6
Hist.	400—American Foundations	5			
	Home Ec. Option				
		16			15

DESCRIPTION OF COURSES

Home Economics 101. Personal and Family Living. Two hours.

Home economics orientation; personal and social adjustment; needs, responsibilities and relationships for family, friends and self at the various developmental stages.

Home Economics 130. Elementary Foods and Nutrition. Three hours.

Scientific principles and techniques involved in the selection and preparation of foods for adequate meals. Two lecture-discussion periods and one two-hour laboratory period per week.

Home Economics 141. Clothing Design and Construction. Three hours.

Principles of design applied to selection of clothing; fundamentals of clothing construction and fitting; interpretation and use of commercial patterns in construction of garments from materials suited to individual problems; use and care of sewing machines and attachments. One lecture-discussion period and two two-hour laboratory periods per week.

Home Economics 231. Family Meal Management. Three hours.

Prerequisite: Home Economics 130.

Application of basic principles of management to buying, planning, preparation, and meal service to meet needs of family members. One lecture-discussion period and two two-hour laboratory periods per week.

Home Economics 240. Textiles. Three hours.

Fibers, yarns, construction of fabrics, finishes as they relate to the use and care of textiles. Simple tests for identification of fibers, fabric construction, and behavior. Two lecture-discussion periods and one two-hour laboratory period a week.

Home Economics 241. Family Clothing Problems. Three hours.

Prerequisite: Home Economics 141.

Essential factors in wise selection of clothing for all family members. Principles of construction applied in making and altering garments. One lecture-discussion period and two two-hour laboratory periods per week.

Home Economics 251. Household Equipment. Three hours.

Principles and practical considerations relative to the selection, use and care of equipment for the home. Two lecture-discussion periods and one laboratory period.

Home Economics 302. Nutrition for Elementary Teachers. Two hours.

Basic food needs for children and adults; making nutrition a part of the total educational program; establishing good food habits; the school lunch as a teaching laboratory.

Home Economics 303. Family Health. Three hours.

Problems in maintenance of individual and family health; principles and techniques applicable to the care of the sick and injured at home. Three lecture-demonstration periods.

Home Economics 320. Elements of Nutrition. Three hours.

(Also Health 320)

Health of the individual as related to food and the body's ability to use it; emphasis on nutrition as a factor in personal and community health problems; use of food guides for better nutrition practices. (No credit granted to Vocational Home Economics students.)

Home Economics 330. Quantity Food Purchasing. Three hours.

Prerequisite: Home Economics 231.

Principles of marketing of all food commodities for food service institutions; policies, procedures, cost control, sanitation, and storage; legislation.

Home Economics 332. Field Experience in Food Service. One to four hours.

Field training in institutional food services arranged with consent and supervision of the instructor. Student is visited on the job.

Home Economics 340G. Textile Testing. Three hours.

Prerequisite: Home Economics 240 and Chemistry 101 and 102.

Analysis of fabrics with emphasis on textile testing, textile standardization and legislation; student will be required to carry on individual research. Two two-hour laboratory-discussion periods per week.

Home Economics 341G. Flat Pattern Design. Two hours.

Prerequisite: Home Economics 241 and Art 291.

Principles of costume design applied to pattern making and fitting using original designs by the students. Patterns are created suitable for use with a variety of fibers and finishes. Two two-hour laboratory-demonstration periods per week.

Home Economics 342G. Clothing Design in Draping. Three hours.

Prerequisite: H.E. 141 and H.E. 241.

Garments created from sketches or from fabric-inspired designs by draping on the dress form. Dress form will be constructed in the course. Six hours of laboratory per week.

Home Economics 343G. Household Textiles. Three hours.

Prerequisite: H.E. 240.

Selection, cost, care, standards, and testing of fabrics used in the home as floor coverings, furniture, bedding, window treatment, towels, etc. A two-hour laboratory period and two one-hour lecture-discussion periods.

Home Economics 344G. Historic Costume. Three hours.

The development of costume through the ages as an expression of social, economic and cultural life of the time, and as a contribution to current fashion.

Home Economics 346G. Fashion Fundamentals. Three hours.

Organization and operations of the fashion world; the influences on fashion through designing, manufacturing, promotion and retailing of apparel.

Home Economics 351. Housing. Three hours.

History of housing in the United States; housing needs of families; trends in housing design and construction; economic problems in housing.

Home Economics 355. Child Development. Three hours.

Constructive approach to the guidance of young children. Behavior characteristics in growth development with emphasis on constructive ways to guide children through these stages; directed experiences in observing and working with pre-school children. One lecture-discussion period and two two-hour laboratory periods per week.

Home Economics 362. Consumer Education. Three hours.

(Also Bus. 362)

Prerequisite: Economics 201.

Appraisal of all segments of consumer goods and services; use of credit; legislation and controls affecting all phases of living.

Home Economics 380. Clothing for Consumers. Three hours.

Prerequisite: Course open to men and women. Not limited to home economics students.

Clothing selection based on quality, an understanding of manufacturing techniques, art principles, care, consumer services, legislation and labeling, and social-psychological implications for the consumer.

Home Economics 430. Organization and Administration of Food Service. Three hours.

Prerequisite: H.E. 130 and H.E. 231.

Basic principles as related to their application in quality food service operation.

Home Economics 431. Human Nutrition. Three hours.

Nutrition approached from the viewpoint of science. The chemistry of energy metabolism; national and world problems in nutrition; nutrition for children, adults and the aged.

Home Economics 432G. Problems in Management and Quantity Cookery. Three hours.

Prerequisite: H.E. 130 and H.E. 231.

Application of principles and techniques as used in quantity food preparation.

Home Economics 433. Diet and Disease. Three hours.

Prerequisite: H.E. 431.

Diet modification for body limitations in disease; physiological basis for therapeutic diets; experience in calculation and planning of diets for various problems in illness.

Home Economics 434. One hour each.

School Lunch Seminar I—Introduction to Problems of the School Lunch Program.

School Lunch Seminar II—Nutrition and Menu Planning.

School Lunch Seminar III—Personnel Management.

School Lunch Seminar IV—Facilities and Equipment.

Home Economics 435. Food Service Equipment. Two hours.

Prerequisite: Home Economics 430.

Selection of equipment, layout, and design for quantity food service. Emphasis on materials, construction, design, layout and specifications.

Home Economics 436G. Advanced Nutrition. Three hours.

Prerequisite: H.E. 431 or equivalent.

Selected topics in nutrition with emphasis on the classical and current literature approached from the viewpoint of science in research and practical application.

Home Economics 437. Advanced Food Production Management. Three hours.

Prerequisites: Home Economics 330, 430, 432, and 435 or concurrently.

Practical application of management principles for special meal services and functions.

Home Economics 438G. Experimental Foods. Three hours.

Prerequisites: Home Economics 130 and 231; Chemistry 101 and 102.

Review and evaluation of published research; presentation of planned class experiments; application of experimental methods applied to food research through individual investigation.

Home Economics 439G. Child Growth and Nutrition. Three hours.

Prerequisite: Home Economics 431 or the equivalent.

Emphasis on the selection, application, and evaluation of nutritional data concerned with infancy and child growth. Interpretation of data concerning nutritional benefits and hazards.

Home Economics 440G. Advanced Textile Testing. Three hours.

Prerequisite: H.E. 340.

Trends and developments in the textile field with application to wear and use studies; use of standard tests used in industry for fiber analysis and fabric testing; critical analysis of the tests. One lecture-discussion hour and two two-hour laboratory periods per week.

Home Economics 441G. Tailoring. Two hours.

Prerequisite: Home Economics 241 or consent of instructor.

Selection, fitting, and construction of a tailored garment based upon individual problems. Required construction of a wool suit or coat. Two two-hour laboratory-demonstration periods per week.

Home Economics 442G. Social-Psychological Aspects of Clothing and Textiles. Three hours.

Prerequisite: Six hours in Clothing and Textiles.

Readings in social, psychological, and economic factors in the selection and use of clothing as determined by recent research.

Home Economics 444G. Dyes and Finishes. Three hours.

Prerequisite: H.E. 240.

Factors of wear, care and storage as related to the special finishes applied to fabrics; types and uses of dyes for natural and man-made fibers and fabrics. One two-hour laboratory and two lecture-discussion periods per week.

Home Economics 451G. Home Furnishings. Three hours.

Principles of design and their application to treatment of interiors; selection of furniture, furnishings, and accessories; treatment of walls, floors, and windows. Practical problems are carried out. Two lecture-discussion periods and one two-hour laboratory period per week.

Home Economics 452. Home Management. Two hours.

Philosophy, goals, and intangible values of homemaking; various phases of management of resources as related to student and family situations, and to the individual as a potential homemaker; financial aspects of homemaking.

Home Economics 453. Problems of the Family. Three hours.

Marriage today: success, failure, and adjustment areas. Pre-marital, marital, and parent-child relationship involving various stages in the family life cycle.

Home Economics 454. Home Management House. Three hours.

Prerequisite: Home Economics 231 and 452.

Application of homemaking principles to the management of human and non-human resources in a pleasant atmosphere amid attractive surroundings; opportunities are provided for developing gracious living through a variety of social experiences. Arrangements for living in the Home Management House must be made during preceding semester.

Home Economics 455G. The Child and the Family. Three hours.

Environmental factors favoring family life; the home as a center of family interaction; stages of family life and the changing role of members.

Home Economics 457G. Interior Design. Three hours.

Prerequisite: Home Economics 451 or equivalent.

Principles and elements of design related to selection and arrangement of furniture; use of fabrics, accessories, and other media used in furnishing a home. A study of periods in furnishings.

Home Economics 470. Methods in Teaching Vocational Home Economics. Four hours.

Prerequisite: Junior or senior standing in home economics.

The development and organization of the vocational program, including the occupational phase; needs and interests of high school students and their families; principles of learning and their application through various techniques and types of lessons; community surveys; planning for the year, the unit and the day; the adult education program; teaching materials and evaluation.

Home Economics 471. Seminar. One hour.

Students will be expected to assist in the identification of problems and issues reflected in the current technical and professional literature for the development of further understandings of the role and function of the many semi-professional and professional fields of service in home economics.

Home Economics 476. Special Problems. One -three hours.

Additional work in one phase of home economics may be taken in an area of special interest. The problem is chosen prior to registration, with the approval of the instructor.

Home Economics 480. Historic Textiles. Three hours.

Prerequisites: Art 291 and H.E. 240 or equivalent.

Textile fibers, weaves, motifs, and colors as reflected by cultural and historical development from prehistoric to modern times. Decorative designs and motifs will be explored.

Home Economics 542. Textiles and Clothing Workshop. Three hours.

Prerequisite: Undergraduate degree in home economics.

Study of and experimentation with new fibers, yarns, finishes; legislation and labeling; evaluation of current trends in teaching

textiles and clothing in a variety of situations; study and analysis of reports on current research in textiles.

Home Economics 570. Research Problems. Two hours.

Prerequisites: Undergraduate area of concentration or major in home economics.

Directed individual study in a phase of home economics of special interest to the home economics student will be provided for professional problems. Written proposals will be submitted to the faculty member or faculty committee designated. The research will normally be limited to library research rather than experimentation design. Conferences by arrangement.

Home Economics 572. Home Economics Education Workshop. Three hours.

Prerequisite: Undergraduate degree in home economics.

A study of the opportunities provided by legislation for secondary schools; recent development of occupational phases of vocational programs in Kentucky; study of available teaching guides; recent developments in the subject matter phase of home economics chosen for emphasis; study and analysis of methods in the high school program.

Home Economics 573. Curriculum Development in Home Economics. Three hours.

The place of home economics in the school and community. New developments in secondary school programs. Consideration of the homemaking curriculum, a critical survey of resources. Development of plans and units.

Home Economics 574. Supervision of Home Economics. Three hours.

The nature, function, and techniques of supervision of home economics in high school and adult programs. Emphasis will be given to supervision of student teachers.

Home Economics 576. Independent Study. One-Three hours.

Prerequisite: Undergraduate degree in home economics.

Original research of a technical or professional nature is planned by the student. The proposal must be approved by the faculty advisor or faculty committee. Original research projects must be supported by adequate library reference work.

Industrial Education

Mr. Baker	Mr. Honeywell	Mr. Nass
Mr. Grote	Mr. C. Huffman	Mr. Newton
Mr. Hackler	Mr. Mays	Mr. M. Roberts
Mr. Hart		Mr. N. Roberts

Objectives:

1. To develop competencies required of those persons preparing to teach industrial arts.
2. To assist individuals in preparing for and advancing in technical positions in industry and business.
3. To provide a pre-service and an in-service program for those persons preparing to teach trade and industrial and technical subjects.
4. To provide graduate instruction for industrial education teachers so that they may continue to grow professionally.
5. To provide instruction through service courses for students majoring in other fields of study.
6. To provide intensive programs of instruction for those persons preparing to enter or advance in selected technical occupations requiring less initial preparation than a baccalaureate degree.
7. To contribute to the general education of all students concerning the cultural significance of industry and technology.
8. To provide in-service programs and professional services for those persons interested in industrial education.

Requirements:

For an Area of Concentration in Industrial Arts: Sem. Hrs.

Industrial Education 100, 102, 103, 106 or 107, 111,
160, 186, 202, 203, 211, 240, 286, 300, 330, 471b,
and 475 ----- 43

One of the following options:

Drawing option: Industrial Education 204, 301,
303, 305, 403 or 404 ----- 9

Woods option: Industrial Education 210, 311, and 411 -----	8
Metals option: Industrial Education 283, 386, 388, 486, or 488 -----	9
Graphic Arts option: Industrial Education 302, 322, 350 or 450 -----	9
Power and Fluid option: Industrial Education 160, 261 and 262 -----	9
Electricity-Electronics option: Industrial Educa- tion 241, 341, 342, or 443 -----	9
Plastics option: Industrial Education 106, 107, and 306 -----	9
	<hr/>
Minimum for the Area -----	8-9
	52

Note: Not more than 18 hours may be earned in any one area of study.

Additional Requirements in other fields:**

English 101, 102, 202 -----	9
Science 105 -----	3
Physics 131* and 132* or Chemistry 111 and 112* -----	8
Sociology 101, Economics 201, Geography 211, or Economics 302 -----	6
Social Science 300 -----	3
History 400 -----	3
Humanities or Communications Electives -----	9
Psychology 153 -----	3
Health 150 -----	2
Physical Education (Two activity courses) -----	2
Military Science -----	8
Professional Education -----	20
	<hr/>
Minimum for Degree -----	128

* Student must meet prerequisites.

For a Major in Industrial Arts**

Sem. Hrs.

Industrial Education 100, 102, 103, 111, 186, 203, 240, 471, and 475 -----	23
Industrial Education electives with consent of ad- visor -----	13
	<hr/>
Total -----	36

** Many states have special certification requirements that may not be reflected in the area of concentration or the major. For example, Ohio requires Crafts (Industrial Education 222) for certification in addition to those indicated above.

A minimum of six (6) hours must be earned in at least three (3) of the following areas: Woods, Metals, Drafting, Graphic Arts, Power and Fluid Mechanics, Electricity-Electronics, or Plastics. Not more than nine (9) semester hours can be earned in any one field.

For a Minor in Industrial Arts:

(For Elementary Education majors only—cannot be used for secondary certification)

Industrial Education 102, 103, 222, 240 and 320	----	14
Industrial Education electives with consent of advisor	-----	4
		<hr/> 18

Note: Students may have introductory courses in industrial arts waived, provided they can furnish satisfactory evidence of past experience in the subject-matter field and can pass proficiency examinations.

INDUSTRIAL TECHNOLOGY

(Non-Teaching)

Although theoretical engineers and machine operators are essential in industry, there are many positions that fall somewhere in between. It is said that for each engineer there is a need for five supportive personnel, often referred to as technicians. These technicians need a degree of skill and knowledge as well as a background in science and mathematics. In a society influenced to such a degree by technological change, an education that prepares a person broadly is often more flexible and adaptable than specific education.

Aside from engineering technicians, managerial positions often require a combination of general, professional, and technical education for maximum success. Sales representatives also need a familiarity with the technical aspects of industry if they are to perform their function satisfactorily.

The industrial technology curriculum has been planned to provide a set of common (core) experiences as well as some degree of specialization. When a student decides on either the scientific em-

phasis or a business emphasis, he has begun to make a career choice. The mathematics and science will guide him toward engineering whereas a background in business administration leads one toward positions in management. The selection of an option, which is equivalent to a minor, further directs the career choice in relation to the major industry that will seek out the graduate.

For An Area of Concentration in Industrial Technology

	Sem.	Hrs.
Core Requirements -----	18	
Industrial Education 100, 103, 317, 319, 330, 471, 472		
Business 200		
Industrial Options—Select one of the following fields --	18	
Design and Drafting, Electricity-Electronics, Graphic Arts Technology, Metal Technology, Plastics Technology, Power and Fluid Technology, or Woods Technology.		
Scientific or Business Emphasis—One of the following areas -----	18	
Scientific Emphasis		
Physics 131 -----	4	
Chemistry 111 -----	4	
Physics 132 or Chemistry 112 -----	4	
Advanced Electives in Mathematics, Physics, or Chemistry -----	6	
Business Emphasis		
Business 281, 282, 350, 404, 465, and 480		
Requirements in Other Fields		
Communications and Humanities -----	21	
English 101, 102 and 202 -----	9	
Speech 370 -----	3	
Electives -----	9	
Science and Mathematics -----	18	
Mathematics 111, 141, and 152 -----	7	
Science 105 -----	3	
*Physics 131 and 132		
or -----	8	
Chemistry 111 and 112		
*For Business Emphasis		

Social Science -----	15
Sociology 101 -----	3
Economics 201 and 302 -----	6
Social Science 300 -----	3
History 400 -----	3
Psychology -----	6
Psychology 153 and 353 -----	
Health and Physical Education -----	4
Health 150 -----	2
Two activity courses -----	2
Military Science -----	8
Electives -----	2-10
Minimum for the Degree -----	128

For a Major in Industrial Technology:

Sem. Hrs.

Industrial Education 100, 103, 317, 319, 330, 471 and 472 -----	15
To be selected from one of the following fields ----	12
Design and Drafting, Electricity- Electronics, Graphic Arts Technology, Metals Technology, Plastics Technology, Power and Fluid Technology, or Woods Technology	
Business 200 -----	3
Minimum for a Major -----	30
Additional Requirements -----	20
Mathematics 141 and 152	
Economics 201 and 202	
Physics 131 and 132 or Chemistry 111 and 112	

Note: In this program it is necessary to meet all other requirements for graduation.

For an Area in Vocational Industrial Teacher Education:

This program is designed for those individuals who have no technical competency or who have technical backgrounds and desire the bachelor's degree and wish to become teachers of vocational industrial education.

	Sem. Hrs.
I. Industrial Education 390, 391, 392, 393, 394, 497 -----	18
II. Technical Industrial Education -----	48
Technical laboratory courses in the area in which the individual proposes to teach. A maximum of 18 semester hours of this requirement may be met by a proficiency examination. A maximum of six semester hours may be allowed for supervised work experience.	
III. Requirements in Other Fields	
Communications and Humanities -----	18
English 101, 102, and 202 -----	9
Speech 370 -----	3
Elective in the humanities -----	6
Science and Mathematics -----	12
Science 103 and 105 -----	6
Elective in science or mathematics -----	6
Social Science -----	12
Social Science 300 -----	3
History 400 -----	3
To be selected from Sociology 101, Economics 201, 202, or 302, and Geography 211 -----	6
Psychology 153 and 353 -----	6
Health and Physical Education -----	4
Health 150 -----	2
Two activity courses -----	2
Military Science -----	8
Elective -----	2
Minimum for the Degree -----	128

For the Two-Year Program in Vocational Industrial Teacher Education:

The individual completing this program and receiving the Associate of Applied Science degree must have had a minimum of three years of approved occupational experience in the occupation in which he plans to teach or a minimum of 1400 clock hours of planned and supervised occupational experience in the occupation in which he plans to teach.

Sem. Hrs.

I. Industrial Education 390, 391, 392, 393, and 394a	13
II. Technical Education	18
Technical laboratory courses in the area in which the individual proposes to teach. A maximum of nine hours of this requirement may be met by a proficiency examination.	
III. Requirements in Other Fields	
Communications	6
English 101	3
Elective in English or speech	3
Science and/or mathematics approved by the advisor	6
Social Science and/or humanities	6
To be selected from Sociology 101, Economics 201, English 202, Philosophy 200, Political Science 241, or History 242	
Psychology 153	3
Military Science	8
Health and Physical Education	4
Health 150	2
Two activity courses	2
Minimum for the Degree	64

For the Two-Year Program in Graphic Arts Technology

This two-year program is designed for the person interested in a wide range of job opportunities in the graphic arts industry. These areas would include management, sales, advertising, designing and production technicians.

Required Courses in Industrial Education:	Sem. Hrs.	Sem. Hrs.
102 Graphic Arts I	3	
103 Technical Drawing I	3	
186 General Metals I	3	
202 Graphic Arts II	3	
302 Offset Lithography	3	
322 Photography	2	
350 Machine Composition	3	
351 Graphic Reproduction	3	23

Additional Requirements: (10 hours selected from)

101	Drawing	2	
160	Introduction to Business	3	
211	Beginning Typewriting	2	
291	Color and Design	2	
317	Time and Motion Study	2	
319	Quality Control	2	
450	Machine Composition	3	----- 10
			<hr/>
		Sub-total	33

Science and Mathematics:

111	General Chemistry	4	
152	College Algebra	3	----- 7

English and Communications:

101	Composition I	3	
102	Composition II		
	or	3	
110	Basic Speech		----- 6

Social Science:

101	General Sociology	3	
201	Principles of Economics		
	or	3	
241	Government of the United States		----- 6

Psychology:

153	General Psychology	3	----- 3
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<i>Military Science: (for men only)</i>	8	----- 8
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Health and Physical Education:

150	Personal Health	2	
	Activity	1	----- 3
	Total		66

For the Two-Year Program in Machine Tool Technology

This program is designed to prepare students for a wide range of positions in the metal working industry. Serving as technicians,

such positions could include: safety foreman, quality control supervisor, maintenance foreman, production supervisor, and engineer's assistant.

Required Courses in Industrial Education: Sem. Hrs. Sem. Hrs.

103	Technical Drawing I	3	
186	General Metals I	3	
203	Technical Drawing II	3	
240	Basic Electricity	3	
286	General Metals II	3	
330	Industrial Design	2	
386	Welding	2	
388	Machine Shop I	3	----- 22

Additional Requirements: (6 hours selected from)

160	Intro. to Power and Fluid Mechanics	3	
200	Intro. to Data Processing	3	
31	Quality Control	2	
486	Patternmaking and Foundry	2	
488	Machine Shop II	3	----- 6
		Sub-total	28

General Requirements

Science and Mathematics:

111	General Chemistry	4	
131	Elementary Physics	4	
141	Plane Trigonometry	3	
152	College Algebra	3	----- 14

English and Communications:

101	Composition I	3	
102	Composition II		
	or	3	
110	Basic Speech		----- 6

Social Studies:

101	General Sociology	3	
201	Principles of Economics		
	or	3	
241	Government of the United States		----- 6

Psychology:

153 General Psychology	3	-----	3
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Military Science: (for men only)

8	-----	8
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Health and Physical Education:

150 Personal Health	2		
Activity course	1	-----	3

Total minimum semester hours	-----	68
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For the Two-Year Program in Drafting and Design Technology

This program is designed for students preparing to enter a wide range of jobs within the drafting and design industry. The jobs would be primarily in the area of product design and tool design. However, they could work into job categories such as customer relations, commercial and technical art, and graphic technical reporting. Typical job titles would include Product Designer, Tool Designer, Jig and Fixture Designer and Drafting Supervisor.

Required Courses in Industrial Education:

	Sem. Hrs.	Sem. Hrs.
101 Technical Drawing I	3	
203 Technical Drawing II	3	
204 Descriptive Geometry	3	
301 Tool Layout and Design	3	
303 Technical Illustration	3	
330 Industrial Design	2	
403 Machine Drawing and Design	3	----- 20

Additional Requirements: (12 hours selected from)

106 Thermoplastics	3	
107 Thermosetting Plastics	3	
160 Intro. to Power and Fluid Mechanics	3	
240 Basic Electricity	3	
241 Basic Electronics	3	
286 General Metals II	3	
322 Photography	2	
386 Welding	2	
388 Machine Shop I	3	
488 Machine Shop II	3	----- 12

Sub-total	-----	32
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*General Requirements:**Science and Mathematics:*

131	Elementary Physics I	4	
141	Plane Trigonometry	3	
152	College Algebra	3	----- 10

English and Communications:

101	Composition I	3	
102	Composition II		
	or	3	
110	Basic Speech		----- 6

Social Sciences:

101	General Sociology	3	
201	Principles of Economics		
	or	3	
241	Government of the United States		----- 6

Psychology:

153	General Psychology	3	----- 3
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Health and Physical Education:

150	Personal Health	2	
	Activity course	1	----- 3

Military Science:

8	----- 8
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Total Minimum Semester Hours	68
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For the Two-Year Program in Electronics Technology

For students interested in a wide range of jobs in the field of electricity or electronics in all kinds of industry. These jobs would be related primarily to the installation, operation, maintenance and repair of industrial type electrical or electronics equipment. Graduates would be expected to secure positions such as electronics technician, electrical maintenance foreman, electronic mechanic, electrical drafting electrician, motor control specialist, power distribution specialist or technical salesman.

<i>Required Courses in Industrial Education:</i>		Sem. Hrs.	Sem. Hrs.
240	Basic Electricity	3	
241	Basic Electronics	3	
341	Transistors and Semi-Conductors	3	
342	Communications Electronics	3	
440	Industrial Electronics	3	
443	Electric Power	3	
	FCC License	1	19

Additional Requirements: (12 hours selected from)

103	Technical Drawing I	3	
160	Intro. to Power and Fluid Mechanics	3	
186	General Metals I	3	
203	Technical Drawing II	3	
286	General Metals II	3	
317	Time and Motion Study	2	
319	Quality Control	2	12
			<hr/>
		Sub-total	31

Science and Mathematics:

111	Slide Rule	1	
131	Elementary Physics I	4	
141	Plain Trigonometry	3	
152	College Algebra	3	11

Psychology:

153	General Psychology	3	3
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English and Communications:

101	Composition I	3	
102	Composition II		
	or	3	
110	Basic Speech		6

Social Studies:

101	General Sociology	3	
201	Principles of Economics		
	or	3	
241	Government of the United States		6

Military Science:

8	8
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Health and Physical Education:

150	Personal Health	2	
	Activity course	1	----- 3
Total Minimum Semester Hours			<hr/> 68

DESCRIPTION OF COURSES

Industrial Education 100. Introduction to Industry. One hour.
(Formerly Introduction to Industrial Education)

The identification of the major industries and the development of an understanding of their impact upon society; the role of the school in an industrial culture; the nature and function of industrial arts; a brief overview of occupational opportunities in contemporary industry; an introduction to basic concepts of industry. One lecture-discussion period each week.

Industrial Education 102. Graphic Arts I. Three hours.

A survey course in graphic arts to introduce students to the practices, techniques, and problems of the printing industry. The major units of study will include printing and related phases of the industry, including silk screen printing, rubber block carving, and bookcrafts. One lecture and four laboratory periods each week.

Industrial Education 103. Technical Drawing I. Three hours.
(Formerly Elementary Mechanical Drawing)

Students are introduced to principles and techniques of communicating ideas by means of graphic representation. Lettering, geometric construction, technical sketching, multiview, section views, auxiliary views, revolutions, dimensioning, diazo reproduction, and the care and use of drawing equipment and supplies are the major units of instruction. One lecture-discussion period and four laboratory periods each week.

Industrial Education 106. Thermoplastic Processing. Three hours.

Prerequisite: Industrial Education 103 or one year of high school drafting.

Students will be introduced to the materials and techniques employed in the processing of thermoplastics. The major units of study

are: injection, extrusion, thermoforming, rotational blow molding, expansion molding, assembly, machining, finishing, and decorating. Two lecture-discussion and two one-hour laboratory periods per week.

Industrial Education 107. Thermosetting Plastics Processing. Three hours.

Prerequisite: Industrial Education 103.

Students will be introduced to the various ways in which thermosetting plastic compounds are processed. The major units of study include: compression and transfer molding, reinforced plastics, lamination, injection and extrusion of thermosets, and fabrication. Two lecture-discussion and two one-hour laboratory periods per week.

Industrial Education 111. Elementary Woodwork. Three hours.

Prerequisite: Industrial Education 103 or consent of instructor.

An introduction to the field of woodworking through the medium of constructing and finishing appropriate projects. Related technical information is included in the instructional program. One lecture and four laboratory periods each week.

Industrial Education 160. Introduction to Power and Fluid Mechanics. Three hours.

This course consists of basic instruction in the generation of power, transfer and control of power through solid and fluid systems, a basic prospective mechanical and fluid efficiency, horsepower related phases of kinetic and kinematic principles as they apply to power transfer. The function and design of mechanisms through analysis of motions, analysis of forces and proportioning of the components. The course consists of lecture plus related applied laboratory experiments and assignments. Two lectures and two hours of laboratory per week.

Industrial Education 186. General Metals I. Three hours. (Formerly Metalwork)

Prerequisite: Industrial Education 103 or consent of instructor.

A basic study of the physical, industrial, and commercial phases of ferrous and non-ferrous metals. An introduction to metal working as pertaining to the basic manufacturing techniques and basic forming techniques. Time shall be devoted to the basic study of applied metallurgy. Two lecture and two laboratory periods each week.

Industrial Education 202. Graphic Arts II. Three hours.

Prerequisite: Industrial Education 102 or consent of instructor.

An advanced course in graphic arts to introduce students to the

more complex problems of the printing industry. The major units of study will include advanced letterpress procedures, use of automatic printing presses, layout and design as it relates to the graphic arts, bindery operations, and the fundamentals of offset-lithography. One lecture and four laboratory periods per week.

Industrial Education 203. Technical Drawing II. Three hours.
(Formerly Advanced Mechanical Drawing)

Prerequisite: Industrial Education 103 and sophomore standing.

This course builds upon a background of principles and techniques developed previously. Pictorial representation, threads and fasteners, working drawings, shop processes, intersections and developments, cams and gears, and patent drafting are the major units of study. One lecture-discussion period and four laboratory periods each week.

Industrial Education 204. Descriptive Geometry. Three hours.

Prerequisite: Industrial Education 203.

The solution, by means of orthographic projection, of problems concerning points, lines, planes, curved lines, and curved surfaces. Major units of study include, principles and applications of orthographic projection; space relations of points, lines, and surfaces; the true length of lines in space; space surfaces and their intersections and developments; intersections of curved surfaces, cylinders, cones, and spheres.

Industrial Education 210. Woodturning. Two hours.

Prerequisite: Industrial Education 111 or consent of instructor.

This course is provided for those students who are interested in specializing in the field of woodworking. Learning experiences include advanced spindle and face plate turning with special emphasis upon design, craftsmanship and finishing. Classes by arrangement.

Industrial Education 211. Advanced Woodwork. Three hours.

Prerequisite: Industrial Education 111 or consent of instructor.

Advanced techniques and practices reflecting the woods industry is taught through the use of more technical tools and power equipment. Students design, plan, construct, and finish appropriate projects. One lecture and four laboratory periods.

Industrial Education 222. General Crafts. Two hours.

A survey of several craft media, involving a study of the common tools, skills, processes, and products. Emphasis will be given to a

wide variety of crafts working with the following industrial materials: clay, glass, plastics, metal, stone, leather, and wood. Industrial applications of craft principles and processes will also be investigated. One lecture-discussion and two laboratory periods per week.

Industrial Education 240. Basic Electricity. Three hours.
(Formerly Industrial Arts 340)

Prerequisite: Mathematics 152 or consent of the instructor.

A beginning course in electric theory with practical and industrial application, a study of Ohms Law, Series and Parallel circuits, Kirchoffs Laws, Magnetism, Electrical Measuring Instruments, Transformers, Inductance, Capacitance, Housewiring, and an introduction to Electronics. Two lecture-discussion periods and two laboratory periods each week.

Students are required to construct projects and to conduct laboratory experiments.

Industrial Education 241. Basic Electronics. Three hours.

Prerequisite: Industrial Education 240 or consent of instructor.

A beginning course in electronic theory with practical and industrial application and with particular emphasis on the electron tube. A study of Impedance, Resonance, Vectors, the Electron Tube and its various applications and an introduction to semiconductors. Students are required to construct one or more electronic projects and to conduct laboratory experiments. Two lecture-discussion periods and two laboratory periods each week.

Industrial Education 261. Power Mechanics I. Three hours.

Prerequisite: Industrial Education 160 and Physics 131.

This course deals with the basic principles and components of specific types of industrial and commercial power and control mechanisms. The study of all types of power generation with emphasis upon the internal combustion engine, ram and turbo jet engine, liquid and solid fuels and special types such as solar power shall be included in the course. Emphasis shall also be given to various components and related mechanisms such as metering agents, indicators and controls and efficiency input in actual application.

Industrial Education 262. Fluid Power I. Three hours.

Prerequisite: Industrial Education 160 and Physics 131.

This course deals with the basic components of fluid-power systems and related apparatus. Hydraulic and pneumatic systems are used as a basic starting point for introduction to hydro-

dynamics and more complex fluid transfer systems. Pressure, head, force, buoyancy, displacement, flow rate and basic laws governing the action of fluids and their interaction with their environment are included in the course. Emphasis is also given to fluid dynamics and the specific study of all types of fluids most commonly utilized and the necessary requirements of those fluids such as viscosity, thermoconductivity and compressibility.

Industrial Education 286. General Metals II. Three hours.

Prerequisite: Industrial Education 186 or consent of instructor.

This course consists of three major phases of the metal working industry. These three phases are specifically in the areas of foundry, welding, and machining operations. The course is designed to give students a broad overview of the three predominant metal forming techniques as they relate to industry. One lecture and four laboratory periods each week.

Industrial Education 300G. General Shop Organization. Three hours.

Prerequisite: Second semester junior or first semester senior standing.

Students will be introduced to concepts of organization and administration of the general shop. Individual and group problems will involve identification and understanding of major concepts in industry which may be taught by integrating tools, materials, and processes. Students will be expected to do a minor research problem. Two lecture-discussion periods and two laboratory periods each week.

Industrial Education 301G. Tool Layout and Design. Three hours.

Prerequisite: Industrial Education 203.

The layout and design of machine tool jigs and fixtures; simple blanking, forming, and piercing dies; and plastics processing dies. This course involves a study of the above processes through lecture-discussion and laboratory work.

Industrial Education 302G. Offset Lithography. Three hours.

Prerequisite: Industrial Education 202.

The study of the history and fundamentals of photo offset-lithography with units in analysis of copy preparation; layout and design; camera work with care and use of the darkroom; stripping, masking, and opaquing procedures; plate making; and actual press operation. Two lecture-discussion and two laboratory periods each week.

Industrial Education 303G. Technical Illustration. Three hours.

Prerequisite: Industrial Education 203.

Students are introduced to principles, practices and techniques used in industry to describe complex mechanisms. Pictorial representation, shading, photo re-touching, air-brush techniques, special instruments, and reproduction of illustrations are the major units of study. Two lecture-discussion periods and two laboratory periods each week.

Industrial Education 305. Housing. Three hours.

Prerequisite: Industrial Education 103 or consent of instructor.

Students are introduced to the problems, practices and techniques of the housing industry. House planning and model construction, legal and financial considerations, mechanical components, organization and implications of the small homes industry, materials and techniques of construction employed by the industry, and techniques of graphic representation are the major units of study. Two lecture-discussion and two laboratory periods per week.

Industrial Education 306G. Plastics Mold Design and Construction. Three hours.

Prerequisite: Industrial Education 106, 107, 388, and 211 or consent of the instructor.

Students are introduced to the design of products in relationship to the physical characteristics of plastics, molding techniques, and mold construction methods. Additional units of study will involve electrical discharge machining, electroforming, pantograph or copy milling, plaster tooling, hobbing, and wood tooling. Students will be expected to complete a minor research project.

Industrial Education 311. Design and Construction of Furniture. Three hours.

Prerequisite: Industrial Education 211.

Students are expected to design, plan, construct and finish an appropriate project requiring advanced principles and techniques of design and wood technology. Experimentation and related research is encouraged. One lecture and four laboratory periods each week.

Industrial Education 317. Time and Motion Study. Two hours.

Prerequisite: Upper division students in Industrial Education.

Analysis of the methods, materials, tools and equipment of industry for purposes of improvement and standardization.

Industrial Education 319. Quality Control. Two hours.

Prerequisite: Upper division standing in Industrial Education.

Analysis and study of methods designed to meet processing problems of industry.

Industrial Education 320G. Industrial Arts for the Elementary Teacher. Three hours.

Prerequisite: Formal admission to the Teacher Education Program.

This course is designed as a means to develop professional and technical competencies of pre-service and in-service elementary school teachers so they may enrich and strengthen programs of instruction by using industrial arts as both method and content. Two periods of lecture-discussion and two periods of laboratory experience each week.

Industrial Education 322. Photography. Two hours.

Prerequisite: Junior or senior standing and consent of instructor.

An introductory course in photography involving film development, printing, and enlarging. Basic technical skills and composition will be emphasized. Familiarization of manufacturers and equipment for personal and school utilization will be a major concern. Each student is required to provide a focusing camera with an adjustable lens opening and shutter speeds of 25-300th of a second or faster. One lecture-discussion period and two laboratory periods by arrangement each week.

Industrial Education 330G. Industrial Design. Two hours.

Prerequisite: Upper division students of Industrial Education.

A study of the basic concepts and principles of designing a product in an industrial-commercial situation. Elements of industry such as capital, management, labor, research and development, production planning, manufacturing, and marketing will be studied. Laboratory experiences will involve individual and group design problems to be subjected to a complete design analysis and then set up for mass-production.

Industrial Education 341. Transistors and Semiconductors. Three hours.

Prerequisite: Industrial Education 241 or consent of the instructor.

An introductory study of transistor and semiconductor theory with practical and industrial applications, a study of commercial diodes and transistors, and related circuits. Students are required

to conduct experiments and to complete a minor research project. Two lecture-discussion periods and two laboratory periods each week.

Industrial Education 342. Communications Electronics. Three hours.

Prerequisite: Industrial Education 241 or consent of the instructor.

A practical course in the theory, operation and maintenance of power supplies, voltage regulators, amplifiers, microphones, oscillators, transmitters, transmission lines, antennas, modulators, receivers. This course also covers theory related to the F.C.C. amateur radio license exam and introduces students to radio receivers servicing. Students are required to do laboratory experiments. Two lecture-discussion periods and two laboratory periods each week.

Industrial Education 350. Machine Composition I. Three hours.

Prerequisites: Industrial Education 202 or consent of instructor.

Designed to introduce students to the history and development of linecasting machines while acquainting them with keyboard operation; mechanical processes; slug casting; mechanical adjustments; and maintenance. One lecture-discussion and four laboratory periods by arrangement each week.

Industrial Education 351G: Graphic Duplication. Two hours.

Prerequisite: For Business Division Majors—consent of the instructor; for Industrial Education—Industrial Education 202 and ability to type.

A survey of the various methods and devices that are currently being used to prepare camera-ready copy for the office duplicator and many phases of the commercial printing industry. Emphasis will be placed on the skills and knowledges required for the typical office duplicating situation as well as on the techniques currently being used to prepare multi-color printing.

Industrial Education 386. Welding. Two hours.

Prerequisite: Industrial Education 286 or consent of instructor.

Laboratory experiences in the field of welding to include oxy-acetylene and AC/DC electric arc welding and cutting. A study of techniques, materials, processes, and care and use of equipment will be made and individual problems completed. Art majors electing this class will be taught special units in brazing and hard soldering. One lecture-discussion period and two laboratory periods per week.

Industrial Education 388. Machine Shop I. Three hours.

(Formerly Machine Shop)

Prerequisite: Industrial Education 286.

Students are introduced to the problems, practices and techniques of machining of metals as reflected by technological developments. Experiences will be provided in machining steel on major equipment such as: metal lathes, horizontal milling machines, shapers, grinders, drilling and sawing equipment. One lecture-discussion period and two double laboratory periods per week.

Industrial Education 403G. Machine Drawing and Design. Three hours.

Prerequisite: Industrial Education 301G.

Mathematical and graphic solutions of problems involving the principles of machine elements. The course will include a study of motions of linkages, velocities and accelerations of points within a link mechanism; layout methods for designing cams, belts, pulleys, gears, and gear trains. Special attention will be given to dimensioning, tolerance, and surface finish characteristics. Laboratory experience will include individual and group projects.

Industrial Education 404G. Architectural Drawing. Three hours.

(Formerly Industrial Arts 304)

Prerequisite: Industrial Education 305.

A technical course covering the fundamental principles, techniques and practices of residential and selected commercial architecture. Individual and group design problems will involve the preparation of specifications, cost estimations, graphic and/or empirical evaluation of structural elements and design feasibility, landscape, and a complete set of working plans which will include necessary details and presentations of both the interior and exterior. Two lecture-discussion periods and two laboratory periods each week.

Industrial Education 411. Wood Industries. Three hours.

Prerequisite: Industrial Education 111, 211.

A study of the problems and processes of the major wood industries in the United States. An opportunity is provided for research and experimentation in the design and processes of the wood utilizing industries. Two lectures and two laboratory periods per week.

Industrial Education 440. Industrial Electronics. Three hours.

Prerequisite: Industrial Education 341 or the consent of instructor.

A practical course in the theory and operation of industrial test

equipment, control devices, thyrotrons, transistors, and timers. An introduction to numerical control circuits, Zener diodes, unijunction transistors, multivibrators, pulse generation, diode logic gates and transistor logic gates. Students are required to do laboratory experiments and to complete a research project. Two lecture-discussion periods and two laboratory periods each week.

Industrial Education 441G. Electricity-Electronics Workshop for Teachers. Three hours.

Prerequisite: Must have at least one year teaching experience, must have taken Industrial Education 241 or have the permission of the instructor.

This is a course designed for Industrial Arts teachers at all levels who are interested in improving their background in electricity-electronics. Special emphasis will be placed on the development of appropriate laboratory experiments, demonstrations, demonstration equipment, projects, curriculum, and methods of teaching electrical concepts. Teaching aids of all kinds will be discussed.

Students will be required to develop and/or construct one of the above items to help them with their teaching, and a paper will be required.

Industrial Education 443. Electric Power. Three hours.

Prerequisite: Industrial Education 241 or the consent of the instructor.

This course has particular emphasis on the selection, operation and repair of AC and DC motors and it also has an introduction to electrical drafting. Students are required to do laboratory experiments and a small amount of electrical drafting. Two lecture-discussion periods each week and two laboratory periods each week.

Industrial Education 450G. Machine Composition II. Three hours.

Prerequisite: Machine Composition I.

A continuation of Machine Composition I (I. E. 350) involving more of the intricate facets of type setting as performed by experienced machine operators in commercial print shops or newspapers. Confronting the student with typesetting problems such as tabular measure, advertisements, and inset work will be emphasized to simulate an actual industrial experience in the classroom. One lecture-discussion and four laboratory periods arranged each week.

Industrial Education 460G. Foundations of Industrial Education. Three Hours.

Prerequisite: Upper division standing in Industrial Education.

Study of the philosophical positions underlying the historical development of industrial arts: related social, political, and economic factors contributing to and associated with these movements; leaders of the industrial arts movements and their influence and contributions; contemporary educational theories affecting the current programs of industrial education. Three lecture-discussion periods each week.

Industrial Education 471a. Seminar for Industrial Arts. One hour.

Prerequisite: Second semester junior or senior standing.

Students will be expected to assist in identifying problems and issues as reflected in the current technical and professional literature. Through informal discussions, participants will be expected to develop a further understanding of the underlying concepts of the industry and education. One session each week.

Industrial Education 471b. Seminar for Industrial Technology. One hour.

Prerequisite: Senior Industrial Technology major.

Students assist in identifying topics of primary interest that relate to their future employment in industry. Each student assumes the responsibility for one or more programs followed by an informal discussion. Faculty presentations as well as outside speakers and guests help to enrich the experience by raising real problems and issues confronting the industrial technology graduate. One session each week.

Industrial Education 472. Basic Industries Practicum. Two hours.

Prerequisite: Upper division standing in Industrial Education.

A study of basic industry through lecture-discussion, reports, and field trips. Emphasis will be placed on direct contact with local industry through a minimum of seven field trips.

Industrial Education 475. Teaching Industrial Arts. Three hours.

Prerequisite: Second semester junior or senior standing. (Should be taken just prior to Professional Semester.)

A study of the objectives of industrial arts and related behavioral changes; industrial arts curricular patterns and trends; selection and organization of subject matter; problem selection and the project

method of teaching; instructional materials and teaching aids; testing and evaluation; and professional growth. Three lecture-discussion periods each week.

Industrial Education 476. Special Problems. One-three hours.

Prerequisite: Upper division standing.

Designed for the purpose of permitting a student to do advanced work as a continuation of an earlier experience or to work in an area of special interest. The topic for investigation must be selected and approved prior to registration. Students will meet with their assigned advisor and agree upon arrangements, procedure and requirements.

Industrial Education 486. Patternmaking and Foundry. Two hours.

Prerequisite: Industrial Education 211, and 286.

The study and practices employed in the total concept of casting hot metals. Ample time shall be devoted to the study and construction of both simple and complex patterns. Laboratory experiences shall be gained in the areas of green sand casting, shell casting and core making. A phase of the course shall deal with the study of basic applied metallurgy as well as the study of the fluidity of molten ferrous and non-ferrous metals. One lecture and two laboratory periods per week.

Industrial Education 488G. Machine Shop II. Three hours.

Prerequisite: Industrial Education 388.

The course will consist of advanced machining of steel and cast iron, advanced metallurgy, precision measurement, and carbide cutting tools. Requirements will include the completion of a product designed, drawn, and machined by the student(s) with emphasis upon proper selection of machines, industrial practices and techniques. One lecture-discussion and four laboratory periods per week.

Industrial Education 540. Administration and Supervision of Industrial Education. Three hours.

Prerequisite: Area of concentration or major in Industrial Education.

Problems to be considered will include: program planning and development; state and federal legislation; planning industrial education shops and laboratories; selecting and purchasing equipment and supplies; organizing and administering the instructional program; and school and community relations. Three lecture-discussion periods each week.

Industrial Education 560. Trends and Issues in Industrial Education. Two hours.

Students will be involved in the identification of problems and issues in industrial arts. An attempt will be made to discuss alternative solutions and identify discernible trends within the profession. Theoretical as well as practical problems will be considered. A foundation for continued professional growth will be established through independent thinking and expression.

Industrial Education 570. Research Problems. Two hours.

Prerequisite: Undergraduate area of concentration or major in Industrial Arts.

This course offers the opportunity and challenge of a self-directed independent study on a professional problem in industrial education. Students must present a suggested problem as well as a justification for the study in writing. Each request will be considered on its own merit in relation to the special needs of the student. Conferences by arrangement.

Industrial Education 571. Seminar. 0-1 hour.

(All graduate students in residence must enroll for this class.)

A study of current technological developments within industry and their concomitant impact upon society. Special emphasis will be placed upon the implications for industrial arts. Following a brief presentation by a student, faculty member, or guest speaker, the group will discuss the topic informally.

Industrial Education 575. Analysis of Research. Two hours.

Prerequisite: Advanced graduate standing or consent of instructor.

Current research related to the field of industrial education will serve as the basis for developing an understanding of research design, sampling procedures, hypotheses testing and statistical analyses by using parametric and nonparametric procedures. Consumer and action research will be emphasized. Two lecture-discussion periods each week.

Industrial Education 576. Independent Study. One-three hours.

Prerequisite: Twelve hours of Industrial Education at the undergraduate level.

Provides the creative and resourceful graduate student with the opportunity to pursue a technical problem with a laboratory orientation. A formal proposal must be submitted and approved prior to or immediately following registration. One or more advisors will be assigned in relation to the nature of the problem. Conferences are scheduled as needed.

Vocational Industrial Education

Industrial Education 298. Introduction to Technical Education. Two hours.

This course describes and delimits the professional field of Technical Education through these areas: industrial occupations; technical education services; the relation of technical education to other industrial education services; the historical development, current status, and trends in technical education.

Industrial Education 390. Principles of Trade and Industrial Education. Two hours.

An introduction to vocational education by considering the history, educational implications, types of curriculums, types of schools, occupational preparations, and vocational guidance.

Industrial Education 391. Trade and Technical Analysis Techniques. Two hours.

This course acquaints the student with the techniques used in analyzing a trade and jobs within a trade; in discovering the teachable content and the method of using scientific analysis in the development of a course outline.

Industrial Education 392. Instructional Materials. Two hours.

Prerequisite: Industrial Education 391.

This course aids the prospective instructor in visualizing the overview of the subject or trade he is to teach and how to organize the teaching material into a concise and logical arrangement for the most effective teaching.

Industrial Education 393. Methods in Vocational Industrial Education. Three hours.

Basic principles of teaching and learning with practical applications and procedures used in industrial education programs.

Industrial Education 394. Student Teaching in Vocational Industrial Education. Four to eight hours.

Prerequisite: Industrial Education 393.

Directed observation and supervised teaching in an approved Area Vocational School or an Extension Center in the trade and area in which the certificate is desired.

Students working for the Associate Degree will obtain a minimum of 45 hours of supervised teaching, 60 hours of directed observation, and 20 hours of participation. This experience carries four hours of credit.

Students working for the Bachelor's Degree obtain a minimum of 90 hours of supervised student teaching, 120 hours of directed observation, and 40 hours of participation. This experience carries eight hours of credit.

Industrial Education 395. Special Problems in Vocational Industrial Education. One to three hours.

Prerequisite: Permission of the instructor.

Individual problems dealing with specific areas in the teaching field of the student. The creative vocational student is provided with the opportunity of pursuing a technical problem in a laboratory orientation. Conferences with the instructor are scheduled as needed.

Industrial Education 496. Organization and Management of the Laboratory. Two hours.

Prerequisite: Industrial Education 393.

Principles of shop and class organization and management including—program planning and development of shops and laboratories; selecting and purchasing equipment and supplies; and organizing and administering the instructional program.

Industrial Education 497. Seminar in Vocational Industrial Education. One hour.

Current problems, issues and trends in Vocational Industrial Education. Each student is expected to plan and complete one or more papers and present his findings to the seminar.

Pre-Nursing

Morehead offers a Pre-Nursing Program for students who plan to enter a Baccalaureate Degree Program of Nursing at some other university. At the present time, the Morehead program is articulated with the program of the College of Nursing of the University of Kentucky. Students following the prescribed Morehead program may make application to the University of Kentucky and the College of Nursing on the same basis as students enrolled in the College of Arts and Sciences on the University of Kentucky campus. It should be understood, however, that admission to the Pre-Nursing Program at Morehead gives no prior commitment to any specific School of Nursing since the candidate must be admitted by the institution to which she is transferring.

To be admitted to the College of Nursing at the University of Kentucky, a student must have attained a minimum grade point average of 2.5. In addition she should have credit for high school physics or have taken Science 103—Introduction to Physical Science—at Morehead. Also, if the student scores below the 50th percentile on the mathematics section of the American College Test, she must have earned credit for College Algebra.

Students planning to transfer to a baccalaureate degree program at a School of Nursing other than the University of Kentucky may modify the following suggested program to meet the specific requirements of his or her choice of institutions.

SUGGESTED PROGRAM

First Semester			Second Semester		
Eng.	101—Composition I	3	Eng.	102—Composition II	3
P.E.	—Activity course	1	Soc.	101—General Sociology	3
Chem.	101—General Chemistry I	4	Chem.	102—General Chemistry II	4
Psy.	153—General Psychology	3		Social Science Elective	3
Sci.	103—Intro. to Physical Science	3		Elective	3
or				Military (Men)	2
	Social Science Elective			or	
	Military (Men)			Elective (Women)	
	or				
	Elective (Women)				
<hr/>			<hr/>		
16			18		



SCHOOL OF EDUCATION

Professional Education

**Special Education and
Psychology**

**Health, Physical Education
and Recreation**

Library Science



MOREHEAD STATE UNIVERSITY

Professional Education

Mrs. E. Anderson	Mrs. Ferlanto	Mrs. M. Northcutt
Mrs. M. Anderson	Mrs. Graves	Mrs. Rice
Mr. Back	Mr. Griesinger	Mrs. Sadler
Mrs. Baker	Mr. Hall	Mrs. Saxon
Mr. Borders	Mrs. Hall	Mr. Schietroma
Mr. Bruce	Mr. Hill	Mrs. Setser
Mr. Burkett	Mrs. Jackson	Miss Smith
Mrs. Calhoun	Mr. Johnson	Miss Smelley
Mr. Cole	Mr. C. Jones	Mr. Stanley
Mr. Dady	Mr. Kincer	Mr. Stewart
Mr. Dales	Mrs. Kirk	Mrs. Stewart
Mr. Davis	Mr. Lappin	Mr. Tant
Mr. Dawson	Mr. Latham	Mrs. Waltz
Mr. Dennis	Mrs. LeMaster	Mrs. Whitaker
Mrs. Dennis	Mr. Logan	Mr. Wicker
Mr. Doran	Mr. Needham	Mr. Wilson
Miss Evans	Miss Nollau	Mr. Wotherspoon
Mr. J. Eversole	Mr. Norfleet	Mr. Yff

TEACHER EDUCATION PROGRAM

The overarching objective of the Teacher Education Program of Morehead State University is to prepare educational personnel to sufficiently staff professional services in this region with high quality administrators, supervisors, and teachers. Four distinct aims have been adopted to meet this goal: (1) to provide pre-service education for teachers; (2) to provide for the amplification of the undergraduate program in a graduate program for classroom teachers; (3) to provide for the increased competency of teachers through study and consultation while in service; (4) to provide a graduate program for the development of guidance counselors, supervisors, principals, and superintendents.

- A. In providing for pre-service education for teachers, the curricula are organized to meet the needs of those who intend to enter the teaching profession.
 1. To offer a program of general education that will develop in the prospective teacher an adequate body of knowledge, a set of moral and ethical principles, and an ability to understand others and to express himself with clarity.

2. To provide for concentrated study in one or more areas of interest which may lead to certification as an elementary teacher or to teach in the chosen field or fields as a secondary teacher.
 3. To provide for a program of professional education experiences with emphasis on human growth and development and the role of the school in a democratic society.
- B. Recognizing the limitation imposed upon a teacher education program based upon only four years of college experience and realizing that the ability of the teacher can be considerably extended by additional study, the graduate program for the classroom teacher has the following objectives:
1. To increase his competence in subject matter by allowing further study in subjects already studied as well as work in supporting fields and areas different from those of former study.
 2. To increase his abilities as a teacher by offering him professional courses that aid his professional growth and by offering him the opportunities and facilities for re-research.
 3. To provide for the professional development of those who wish to improve themselves in present or different positions.
- C. With the realization that teacher education does not end when a teacher assumes classroom duties the in-service program is designed to:
1. Provide for the increased competence of teachers through study in evening, Saturday, and summer courses.
 2. Help teachers become aware of new methods and materials.
 3. Bring to the in-service teacher new philosophies and ideas in education through classwork, conferences, and consultations.
- D. Recognizing that our school systems are in constant need of additional personnel in leadership positions, and accepting our part of the responsibility for preparing individuals for these positions, we have the development of the following as the objectives in our educational program for school leaders:

1. An organized and coherent set of concepts concerning education and society as a whole.
2. An understanding on the part of each leader of his position and function in the school system and community, and an ability to fulfill his functions in a satisfactory manner.

ADMISSION AND RETENTION IN THE TEACHER EDUCATION PROGRAM

Morehead State University believes that effective service in the improving of the teaching profession calls for the highest type of personnel that can be prepared. Consequently, the Teacher Education Program at Morehead State University is a selective program and only those individuals who meet the standards prescribed by the University are permitted to take the courses required for certification.*

Students who wish to qualify as teachers should apply for admission to the Teacher Education Program during the second semester of the sophomore year. Applications and further information may be received from the Dean of the School of Education. Those who are accepted into the program are permitted to continue with their preparation for teaching as long as they meet the standards. Those who are not accepted may not enroll for certain courses* required in the program for teacher preparation. Students who are not accepted may reapply at a later date if they are successful in correcting deficiencies which have been identified by the Teacher Education Committee.

Students transferring to Morehead are required to meet the same standards for admission to the Teacher Education Program as the regular Morehead students.

*Courses for which admission to the Teacher Education Program is a prerequisite—

Art 221. School Art II.

Education 321. Teaching of Arithmetic.

Education 326. Teaching of Reading.

Health 300. Health in the Elementary School.

Library Science 227. Literature and Materials for Children.

Music 221. Music for the Elementary Teacher.

Physical Education 300. Physical Education in the Elementary School.

Science 390. Science for the Elementary Teacher.

Requirements:

<i>For the Provisional Elementary Certificate:</i>	Sem. Hrs.
Education 100, 210, 321, 326, and 427-----	24

<i>For the Provisional Secondary Certificate:</i>	
Education 100, 210, 300, and 477-----	20

For the Master of Arts in Education:

The Master of Arts in Education is a professional degree. Through the different curricula leading to this degree, a student may qualify for the *standard certificate* for elementary or secondary teachers (provided he holds, or is eligible to hold, the corresponding provisional certificate) or he may qualify for the provisional certificate for guidance counseling, school librarian, or special education in Kentucky.

Students completing a program for the Master of Arts in Education and meeting Kentucky's certificate requirements are fully accepted for a similar certificate in most other states. However, a student who expects to meet certification requirements in another state should contact the certification authority in that state to determine if there are specific requirements in that state which he should include in his program of study at Morehead.

Requirements for Unconditional Admission to Graduate Study in Education:

1. General admission to graduate study.
2. A minimum of nine semester hours of undergraduate credit in professional education.

Requirements for the Degree:

<i>For Elementary Teachers</i>	Sem. Hrs.
Education 500, 510, 530, and 580-----	10
Education 526 and 599	
or	
*Education 526 and approved electives in education--	8
Specialized area outside of professional education--	12
	<hr/>
	30

* The "approved electives in education" may be taken in another field with the approval of the Director of Graduate Study in the School of Education.

For Secondary Teachers

Sem. Hrs.

Education 500, 510, 530, and 580_____	10
*Education 599 and an approved elective in education or	
*Approved electives in education_____	8
Specialized area outside of professional education__	12
	<hr/>
	30

* The "approved electives in education" may be taken in another field with the approval of the Director of Graduate Study in the School of Education.

For Librarians

Education 500, 510, 530, and 580_____	10
*Library Science 301G, 311G, 321G, 411G, and 475G_	15
Electives at the 500 level_____	5
	<hr/>
	30

* If credit in Library Science 227 has not been earned at the undergraduate level it must be taken by the graduate student. This course does not carry graduate credit.

*For Guidance Counselors**

Education 500, 510, 530, 580_____	10
Education 556, 564, 566, and 569_____	8
Psychology 381G and approved elective in psychology _____	6
Electives in fields other than psychology or education _____	6
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* Students desiring to become guidance counselors must secure special permission to enter this program at the time they apply for admission to candidacy for the master's degree.

For Special Education

To be eligible to apply for this program, a student must have earned credit in each of the following areas—

Either Exceptional Children or Psychology of Exceptional Children

Either Educational Psychology or Psychology of Learning

Either Quantitative Methods or Measurement Principles and Techniques

Courses marked with an asterisk are required for the program and Kentucky certification.

Credit in one or more sections of Education 555 may be earned.
A minimum of 32 semester hours is required for this program.

	Sem. Hrs.
Education 500, 510, 530, and 580-----	10
To be selected from Education 350G°, 437G, 452G, 465G, 555°, 568, and 575°-----	10
To be selected from Psychology 490G, 509, 512, 533, and 534 -----	6
To be selected outside of education and psychology-----	6
	<hr/> 32

SUGGESTED PROGRAMS

The following programs have been devised to help students in selecting their courses and making their schedules. These suggested schedules need not be followed specifically from semester to semester, but close adherence to them will aid the student in meeting all requirements.

Provisional Elementary Certificate and Degree

FRESHMAN YEAR

First Semester		Second Semester	
Eng. 101—Composition I ✓	3	Eng. 102—Composition II	3
P.E. —Activity course ✓	1	P.E. —Activity course	1
Sci. 103—Intro. to Physical Sci.	3	Sci. 105—Intro. to Biological Sci.	3
Geog. 100—Fund. of Geography ✓	3	Ed. 100—Orientation in Education	1
Psy. 153—General Psychology ✓	3	Art. 121—School Art I	2
Military (Men)	2	Social Science Elective	3
or		Military (Men)	2
Elective (Women)		or	
	<hr/> 15	Elective (Women)	<hr/> 15

SOPHOMORE YEAR

First Semester		Second Semester	
Eng. 202—Intro. to Literature	3	Literature Elective	3
Mus. 100—Rudiments of Music	2	Sociology Elective	3
Math. 231—Basic Mathematics I	3	Math. 232—Basic Mathematics II	3
Ed. 210—Human Gr. and Develop. I	3	Humanities or Com. Elec.	3
Phil. 200—Intro. to Philosophy	3	Elective	3*
Military (Men)	2	Military (Men)	2
or		or	
Elective (Women)	<hr/> 16	Elective (Women)	<hr/> 17

JUNIOR YEAR

First Semester		Second Semester	
Ed. 326—Teaching of Reading	3	Ed. 321—Teaching of Arithmetic	2
L.S. 227—Lit. and Mat. for Children	3	S.S. 300—Current World Problems	3
Geog. 300—Regional Geography	3	Spch. 300—Oral Communication	3
Science Elective	3	Science Elective	3
Mus. 221—Music for the Ele. Teacher	2	Hlth. 300—Health in the Ele. School	2
Elective	3*	Art. 221—School Art II	2
	<hr/> 17	Elective	<hr/> 2*
			17

SENIOR YEAR

First Semester			Second Semester		
Hist.	400—American Foundations	3	Ed.	427—Professional Semester	15
P.E.	300—Phys. Ed. in the Ele. Sch.	2	(The Professional Semester may be taken either semester of the senior year)		
Sci.	390—Sci. for the Ele. Teacher	3			
	Elective	9*			
<hr/>			<hr/>		
17			15		

* An approved minor is required in this program. See p. 102 for the list of minors acceptable for elementary education.

Two-year Program for Teacher Aides

FRESHMAN YEAR

First Semester			Second Semester		
Eng.	101—Composition I	3	Eng.	102—Composition II	3
P.E.	—Activity course	1	P.E.	—Activity course	1
Sci.	103—Intro. to Physical Sci.	3	Sci.	105—Intro. to Biological Sci.	3
Psy.	153—General Psychology	3	Soc.	205—Social Institutions	3
Spch.	110—Basic Speech	3	Mus.	100—Rudiments of Music	2
Hlth.	150—Personal Health	2	Bus.	211—Beginning Typewriting	2
	Military (Men)		Ed.	101—Orientation in Education	1
	or			Military (Men)	
	Elective (Women)	2		or	
<hr/>			Elective (Women)		
17			<hr/>		
			17		

SOPHOMORE YEAR

First Semester			Second Semester		
Ed.	210—Human Growth & Dev. I	3	Ed.	326—Teaching of Reading	3
Bus.	237—Secretarial Skills	3	Math.	231—Basic Mathematics I	3
Ed.	212—Preparation and Utilization of Instr. Mat.	3	P.E.	320—Phys. Ed. in the Ele. Sch.	2
Art.	121—School Art I	2	Ec.	201—Principles of Economics	3
I.E.	222—General Crafts	2	Hlth.	203—First Aid and Safety	2
Ed.	250—Practicum I	2	Ed.	251—Practicum II	2
	Military (Men)			Military (Men)	
	or			or	
	Elective (Women)	2		Elective (Women)	2
<hr/>			<hr/>		
17			17		

DESCRIPTION OF COURSES

Education 100. Orientation in Education. One hour.

(Required of all students who expect to qualify for any teaching certificate.)

An overview of the basic philosophical, sociological, psychological, and educational considerations and understandings associated with the development and organization of the American school system. Emphasizes the nature of the education process: the support of education; opportunities and requirements for teaching as a professional activity; the nature and requirements of special teaching fields; and trends in American education.

Education 210. Human Growth and Development I. Three hours.

The physical, intellectual, emotional, and social development of the human organism from conception through the years of youth. A treatment of these aspects of development and the needs and developmental tasks of individuals at each of the following age levels: infancy, early childhood, middle childhood, preadolescence, adolescence, and youth. Emphasis given to the principles of development and to the developmental influence of social class, the family, the school, and the group.

Education 280. Problems in Rural Education. Three hours.

This course is designed to meet the needs of students who are working in rural communities. Problems and activities are selected according to the conditions prevailing in the local school system.

Education 300. Introduction to Student Teaching. One hour.

Prerequisites: Education 100, 210, and admission to the Teacher Education Program.

This is a guided experience designed to prepare the student specifically for the Professional Semester in secondary education. Experiences are provided in: observation, participation, teacher planning, resources for teaching, group dynamics, individual differences, public relations, and evaluation.

Education 320. Improvement of Instruction in the Elementary School. Three hours.

Emphasizes the cooperative building of a school philosophy and the accompanying objectives of education; cooperative and self-supervision of instruction; selection of supplementary materials and problems and curriculum organization; effective staff relationships; and pertinent problems concerning instruction and management.

Education 321. Teaching of Arithmetic. Two hours.

Prerequisite: Education 210, Mathematics 231 and 232, and admission to Teacher Education.

Essential concepts of the subject; effective presentation of number material to the learner; emphasis on functional arithmetic.

Frequent observations are required in order to evaluate the best modern teaching practices.

Education 325. Supervised Student Teaching. (Elementary) Four hours.

Prerequisites: Admission to the Teacher Education Program;

attainment of a scholastic standing of 2.0 on all residence courses completed at Morehead at the time student teaching begins; attainment of a standing of 2.5 on the portion of the area in elementary education completed at the time student teaching begins; completion of the professional education courses prerequisite to student teaching—Education 100, 210, 321, and 326; completion of a minimum of 90 semester hours of work; at least one semester of residence credit earned at this University and permission of the Committee on Teacher Education. Application must be made by March 30 preceding the school year during which the student plans to take this course.

Each student is assigned to a four-hour block in a student teaching center during which time observation, participation and teaching is done. Teaching may be done in any of the elementary grades. Special conferences with the supervising teacher, attendance and participation in faculty meetings and out-of-school activities are also required.

Education 326. Teaching of Reading. Three hours.

Prerequisites: Education 210 and Admission to Teacher Education.

Motivation of reading; mechanics of reading; special methods; diagnosis and treatment of difficulties; psychological investigations of reading; and the relationship of reading ability to success in other subjects.

Education 327G. The Pre-School Child. Three hours.

Emphasizes the principles of growth and development from the prenatal period to age six and how to provide learning experiences that can enrich their lives. Focuses attention on nursery and kindergarten age children.

Education 328G. Activities and Materials in Early Childhood Education. Three hours.

Investigates the needs and interests of early childhood—pre-school, kindergarten and primary—as a basis for a critical evaluation of present practices in this field. Also provides opportunities to explore objectives, materials, and techniques of instruction for this age group.

Education 330. Education of Exceptional Children. Three hours.

Procedures for the identification, education and treatment of exceptional children—the gifted, those with low intelligence, and the handicapped—including the behavior deviations involved.

Education 333. Fundamentals of Elementary Education. Four hours.

Prerequisites: Education 210 and admission to Teacher Education.

The purpose and origin of the elementary school; problems of school organization, management, extracurricular and community relationship; testing and record keeping; guidance and counseling of elementary pupils; methods of teaching the social studies, science, elementary art and music, health and recreation, and language arts. Systematic observation of all phases of instruction is an integral part of the course.

Education 350G. Nature and Needs of Retarded Children. Three hours.

The physical, psychological, and educational needs of the educable and trainable mentally retarded child; research pertaining to the nature and needs of the mentally retarded; and ways of developing maximum abilities.

Education 355G. Teaching the Mentally Retarded. Three hours.

A consideration of curriculum sequence, as specialized methods of instruction applicable to handicapped learners. The construction, use, and adaptation of materials by teachers who are working with retarded children.

Education 360. History of Education. Three hours.

Education in ancient, medieval, and modern periods; early American backgrounds; early campaigns for the improvement of instruction and teacher training; the development of present practices; great educators of each period and their contributions.

Education 374. Improvement of Instruction in the Secondary School. Three hours.

Emphasizes the cooperative building of a school philosophy and the accompanying objectives of education; cooperative and self-supervision of instruction; selection of supplementary materials and problems of curriculum organization; effective staff relationship; and pertinent problems concerning instruction and management.

Education 375. Supervised Student Teaching. (Secondary). Four hours.

Prerequisites: Admission to Teacher Education; attainment of a scholastic standing of 2.0 on all residence courses completed at

Morehead at the time student teaching begins; a minimum standing of 2.5 on all work completed in the field in which teaching is to be done; completion of the professional education courses prerequisite to student teaching—Education 100, 210, 300; completion of a minimum of 16 semester hours in the field in which the student is to teach; completion of a minimum of 90 semester hours of work; at least one semester of residence credit earned at this University; and permission of the Committee on Teacher Education. Application must be made by March 30 preceding the school year during which the student plans to take this course.

Each student is assigned to a four-hour block in a student teaching center during which time observation, participation and teaching is done. Special conferences with the supervising teacher, attendance and participation in faculty meetings and out-of-school activities are also required.

Education 381G. Measurement Principles and Techniques. Three hours.

Investigations of major kinds or areas of tests, test manuals, publisher's catalogs, and research literature; elementary statistics; test construction, administration, scoring, and interpretation of results. Special emphasis on intelligence tests.

Education 382G. Audio-Visual Aids in Instruction. Three hours.

History and basic philosophy of the use of multisensory materials of instruction; role of the teacher in perceptual learning; projected and non-projected audio-visual materials; sources of materials.

Education 410. Human Growth and Development II. Three hours.

(Formerly Education 211)

Prerequisite: Education 210.

A continuation of Education 210. Students should not enroll for this course unless they are completing their requirements for certification under the old arrangement for student teaching. All students taking the course should check their enrollment carefully with the instructor.

Education 421G. Modern Mathematics Workshop. Two hours.

Designed to acquaint in-service teachers with the content of modern mathematics. This course does not substitute for Mathematics 231 or 232.

Education 423. Curriculum Development. Three hours.

Problems involved in the selection and organization of learning

experiences in the various subject-matter areas; techniques of curriculum making and improvement. Attention is directed specifically to the local situation.

Education 425. Supervised Student Teaching (Elementary). Four hours.

A continuation of Education 325.

Education 425S. Substitute Student Teaching For Experienced Teachers (Elementary). Four hours.

(Offered only during the summer term.)

Prerequisites: Admission to Teacher Education Program; at least two years of full-time teaching experience within the last ten years; completion of a minimum of 108 semester hours of college credit; attainment of a scholastic standing of 2.0 on all residence work completed at Morehead; a minimum standing of 2.5 on the work completed in teaching area or major; completion of the professional education courses—Education 210, 321, and 326; at least one semester of residence credit earned at this University; and permission of the Committee on Teacher Education. Application for this course must be made at least six weeks prior to the term for which the student desires to register for it.

The student is required to be in classes two periods a day, and, in addition, each enrollee is expected to leave a period vacant in his schedule for special assignments and activities.

The experiences provided are designed to meet the needs of the members of the group. They are selected from the entire range of teaching activities except that classroom teaching is omitted. Attention is given to—observing, testing, experience with audio-visual aids, remedial and individual instruction, making case studies, study of child behavior, reading on current general and professional topics, developing teaching aids, evaluation, and professional relations.

Education 427. Professional Semester (Elementary). Fifteen hours.

Prerequisites: Admission to the Teacher Education Program; attainment of a scholastic standing of 2.0 on all residence courses completed at Morehead at the time student teaching begins; a minimum standing of 2.5 on the portion of the area in elementary education completed at the time student teaching begins; completion of the professional education courses prerequisite to student teaching—Education 100, 210, 321, and 326; completion of a minimum of 90 semester hours of work; at least one semester of residence credit earned at this University and permission of the Committee on Teacher

Education. Application must be made by March 30 preceding the school year student plans to take this course.

This course, for which the student enrolls during either the first or second semester of the senior year, completes the individual's professional training at the undergraduate level and includes those phases of such training as are found in courses carrying the titles of Human Growth and Development II, Fundamentals of Elementary Education, and Supervised Student Teaching.

The eighteen weeks of the semester are arranged for students so that the first and last weeks are devoted to orientation, planning, and evaluation. Eight weeks are spent in student teaching, either on-campus or off-campus, and eight weeks are spent in class work.

Only in emergency cases are students permitted to enroll in other courses during the semester in which they carry this course. (Application for extra course work may be made with the Dean of Undergraduate Programs).

Education 437G. Diagnostic and Remedial Techniques. Three hours.

Diagnostic testing; the causes of retardation; specific disabilities in school subjects; behavior problems; cumulative record keeping; case studies; and remedial techniques.

Education 447G. Utilization of Educational Television. Three hours.

Prerequisite: Upper division classification.

An investigation of the use of television in the classroom. The course includes what television can and cannot do in the teaching-learning situation. A bit of the history and background of ETV; how a telecourse is developed; personnel needed; examples of telelessons and their use by outstanding teachers; the importance of the course guide; effective motivational and follow-up techniques with the help of other media; with particular emphasis on the role of the classroom teacher; these are the salient topics of the course. Lecture, demonstration, and student involvement are some of the techniques employed.

Education 452G. Special Problems in Learning Disorders. Two hours.

An examination of psychological, medical, and educational literature involved with survey, clinical, and experimental work concerning a specific learning disorder. Diagnosis, therapy and prognosis relative to a specific learning impairment or a cluster of related elements. For example, the student may choose to study in depth, topics such

as cultural asynchrony, organisity, dyslexia, neuromuscular dysfunctions, diseases and conditions due to prenatal influence, etc.

Education 462G. Remedial Reading. Three hours.

A comprehensive course in diagnosis and correction of reading skills. It is designed to help the teacher understand the reasons underlying reading difficulties and how these problems can be remedied.

Education 465G. Auditory and Visual Problems. Three hours.

Techniques for measuring hearing threshold with emphasis on the educational implication of impaired hearing; group screening, individual pure-tone testing, and speech audiometry. Identification of the partially sighted and materials and methods to aid in teaching the visually handicapped.

Education 472. Fundamentals of Secondary Education. Four hours.

Prerequisites: Education 100, 210, and admission to the Teacher Education Program.

The functions and organization of the secondary school; principles, methods, and techniques of teaching including unit construction and lesson planning; evaluating activities; the use of illustrative materials and supplementary aids; professional activities of the teacher; and successful community relationships.

Education 475. Supervised Student Teaching (Secondary). Four hours.

This course is a continuation of Education 375.

Education 475S. Substitute Student Teaching for Experienced Teachers (Secondary). Four hours. (Offered only during the summer term.)

Prerequisite: Education 210 and Education 300 are recommended.

The same as 425S except that the experiences provided are selected to meet the needs of high school teachers.

Education 476. Reading in the Secondary School. Three hours.

The need for reading instruction in the high school; causes of retardation and types of difficulties; remedial measures; materials for instruction; and administrative problems involved.

Observation and analysis of actual cases constitute an important part of the course.

Education 477. Professional Semester. Fifteen hours.

Prerequisites: Admission to the Teacher Education Program; attainment of a scholastic standing of 2.0 on all residence courses completed at Morehead at the time student teaching begins; a minimum standing of 2.5 on all work completed in the field in which teaching is to be done; completion of Education 100, 210, 300; completion of 16 semester hours in the field in which the student is to teach; completion of 90 semester hours of credit; at least one semester of residence credit earned at this University and permission of the Committee on Teacher Education. Application must be made by March 30 preceding the school year student plans to take this course.

This course, for which the student enrolls during either the first or second semester of the senior year, completes the individual's professional training at the undergraduate level and includes those phases of such training as are found in courses carrying the titles of educational psychology, content and methods, tests and measurement, instructional media, and supervised student teaching.

The eighteen weeks of the semester are so arranged that the first and last weeks are devoted to orientation, planning and evaluation. Eight weeks are spent in student teaching either on-campus or off-campus and eight are spent in classwork.

Only in emergency cases are students permitted to enroll in other courses during the semester in which they carry this course. (Application for extra course work may be made with the Dean of Undergraduate Programs.)

Education 481C. Introduction to Educational Statistics. Three hours.

A study of the applications of statistical and graphical methods to psychological and educational data. Included are: tabulation and graphic representation of frequency distributions; selected measures to correlation; and basic sampling.

GRADUATE COURSES

Education 500. Research Methods in Education. Two hours.

Selection, delimitation, and statement of a research problem; techniques of bibliography building; methods of organization; recognized methods of investigation; and style-standards for research writing. Strongly recommended for all beginning graduate students.

Education 509. Advanced Educational Psychology. Two hours.

An advanced and applied study of principles of learning, mental health, and development in relation to evaluative, remedial, and educational processes.

Education 510. Advanced Human Growth and Development. Three hours.

A study of the developmental processes in childhood and adolescence. Application of principles of development and research findings and theory to human behavior.

Education 520. Research Problems in Elementary Education. Two hours.

Prerequisite: Education 500.

Intensive and comprehensive investigation of a problem, or problems, in the field of elementary education. The problem, or problems, selected must be such that the collection and analysis of original data are basic to the solution.

Problems to be studied must be approved in advance by the instructor, and the student must expect to have conferences with the instructor as necessary.

Education 524. Remedial Reading. Two hours.

Designed to help classroom teachers and remedial workers diagnose and correct the various kinds of problems which are grouped under the heading of reading disability. (Students who have credit for Education 462G are not permitted to take this course for additional credit.)

Education 526. Investigations in Reading. Two hours.

Prerequisite: Education 326, or the equivalent, and teaching experience.

A study of current literature in the field. Emphasis on methods of investigation and research findings concerning reading. Papers and oral reports required.

Education 528. School Law. Two hours.

The state's responsibility for education; legal safeguards on school funds; status of the local school district; responsibilities of school boards and officials; liability of school boards and officers; legal provisions affecting school personnel, attendance, discipline, textbooks and courses of study. Emphasis on the Kentucky Code.

Education 530. Curriculum Construction. Two hours.

Evaluation of past and present curricular aims and practices in

the twelve-grade school; organization and development of the curriculum program in the local school system; research, evaluation, and experimentation in curriculum development; conditions of effective group endeavor.

Education 532. Elementary School Curriculum. Two hours.

Implications of the wider goals of elementary education; the relation of each area of learning to the total program; research studies, and promising classroom experiences.

Education 534. Secondary School Curriculum. Two hours.

Past and present curricular practices in the secondary school; organization and development of the curriculum program in the local school system; research, evaluation, and experimentation in curriculum development.

Education 535. Curriculum Construction in the Two-Year College. Two hours.

Theoretical and practical basis for the curriculum of the comprehensive two-year college; its relationship to the secondary school and the four-year college; evaluation of current curriculum aims and practices; and consideration of sound practices for curriculum construction in the two-year college.

Education 540. The Two-Year College in Higher Education. Two hours.

The unique role of the two-year college in American education; its philosophy and functions, and patterns of organization and administration for academic, business, student personnel, public relations and development activities.

Education 541. Academic Problems in Higher Education. Two hours.

Selection, assignment, guidance, evaluation, payment, and retirement of academic personnel; promotional policies; organization of faculty for development of policies; and curricular development and instructional resources.

Education 542. Student Personnel in Higher Education. Two hours.

Prerequisites: Admission to Graduate Program and nine semester hours of Professional Education courses.

The principles of student personnel in higher education; the program of services, and organization and administration of the personnel program.

Education 543. Seminar in Higher Education. Two hours.

Group study on issues of the two-year college in higher education.

Education 544. Independent Study in Higher Education. One to three hours.

Individual study and/or research on issues of the two-year college in higher education.

Education 555. Teaching the Exceptional Child. Two hours for each sub-section of the course. Maximum credit of ten hours.

A—Educable Mentally Retarded

B—Trainable Mentally Retarded

C—Gifted Children

D—Emotionally Disturbed

E—Physically and Perceptually Handicapped

Evaluation and practice in the use of materials, method and curricula sequences for special class children. Emphasis is placed on adapting learning environments related to language, art, social skills, quantitative operations, health and creative activities to meet the demands of children with special learning disorders or talents.

Education 556. Principles of Guidance. Two hours.

History and development of the guidance movement; the place of the specialist; guidance and the teacher; present status of guidance; meeting the needs of the individual school; objectives and types of guidance.

Education 560. Supervision. Three hours.

Prerequisite: Admission to a leadership program.

Nature and scope of supervision; principles governing the supervisory process; planning supervisory programs; facilitating teacher growth; improving the curriculum; the use of instructional materials; evaluation of instruction; and remedial programs.

Education 561. Exceptional Child Research and Problems. Two to six hours.

A seminar research problems course that provides students with an opportunity to explore in depth particular problems related to learning disorders.

Education 562. Individual Inventory Techniques. Two hours.

Designed to increase counselor competence in individual analysis through special training in the choice and utilization of statistics, tests, sociometrics, and observational and interview techniques.

Education 564. Occupational Information. Two hours.

Sources, descriptions, classifications, and evaluation of occupational materials to be used in individual and group guidance procedures with implications for integration into the total curriculum.

Education 566. Techniques of Counseling. Two hours.

Prerequisite: Education 381G and 556 and admission to the program for Guidance-Counselors.

Basic philosophy, principles and procedures in counseling; ways and means of securing, organizing and disseminating educational and occupational information.

Education 568. Organization of Special Classes in the School. Two hours.

A consideration of the relation between the special-class teacher and students within the matrices of the larger school community. Techniques of parental counseling and introduction of the students into the work and social aspects of the larger community.

Education 569. Practicum in Guidance and Counseling. Two hours.

Prerequisites: Education 564 and 566.

Actual experience in guidance and counseling in the schools of the area. Both group and individual techniques are employed. The course is taken during the last term of residence in the guidance and counseling program.

Education 570. Research Problems in Secondary Education. Two hours.

Prerequisite: Education 500.

The same as Education 520 except that the problem, or problems, must be selected from the field of secondary education.

Education 571. Seminar—Problems of the Teacher. One hour.

Individual research problems and theses; review of current educational research; significant problems in education especially related to the role of the teacher. Oral reports and group discussion.

Education 572. Seminar—Problems of the Principal. One hour.

This course is similar to Education 571 except that problems relating to the role of the principal are considered.

Education 573. Seminar—Problems of the Supervisor. One hour.

The course is similar to Education 571 except that problems relating to the role of the supervisor are considered.

Education 575. Practicum in Special Education. Three to six hours.

Supervised practice in working with specific groups of exceptional children in educational, clinical, or institutional settings using a holistic multi-discipline approach to therapy and/or prescriptive teaching. Credit towards practice teaching and/or clinical experience with retarded, partially sighted, hearing loss, gifted, disturbed, physically handicapped, speech disorder or multiple handicapped children or adolescents is provided, depending on the student's area of concentration.

Education 580. History and Philosophy of Education. Three hours.

Beginnings of the American system of education; various theories of education; impending changes in American education; problems challenging education today; philosophies of learning.

Education 584. School Finance. Two hours.

State school support; apportionment of state funds; sources of school revenue; the local school unit and finance; federal aid for education; and administrative control of school funds—budgeting and accounting.

Education 585. Research Problems of the School Leader. Two hours.

Prerequisite: Education 500 or equivalent experience.

Intensive and comprehensive investigation of a problem or problems in the field of educational administration, involving the collection and analysis of original data.

Education 586. The School Plant. Two hours.

This course is designed for the person preparing to be a school administrator and for the administrator on the job who is attempting to re-examine his perspective or improve his practice in dealing with school plant and auxiliary facilities problems such as: evaluation of existing school building facilities, planning new buildings, determining suitable equipment, and financing building programs.

Education 590 Supervision of Student Teaching. Three hours.

Basic principles and procedures in the techniques of supervision of student teachers. The course is designed to prepare teachers to become supervising teachers who provide the professional laboratory experiences during student teaching. Preparation for the orientation of student teachers, planning for and supervision of teaching, and evaluation are included.

Education 591. The School and the Public. Two hours.

School-community relations based on the concept of the changing school in a changing community. Consideration of the forces of social and economic changes that impinge upon the school, and are in turn affected by the school. The proper function of publicity in school-community relations.

Education 592. Administration of School Personnel. Three hours.

Designed to meet the needs of educational leaders with respect to the various dimensions of directing the efforts and activities of the personnel of the school. Personnel involved include: faculty, staff, special service, pupil, custodial, maintenance and transportation.

Education 595. The Elementary School Principal. Two hours.

Prerequisite: Admission to the program for the principalship.

Organization of the elementary school; administering pupil, professional and non-professional personnel; supervision, community relations; scheduling; and special services.

Education 596. The Secondary School Principal. Two hours.

Prerequisite: Admission to the program for the principalship.

Administration of school personnel; co-curricular activities; guidance program; supervision, schedule making; in-service development; and public relations.

Education 599. Thesis. Two to six hours.

Special Education and Psychology

Mr. Clough, Head of the Department

Mrs. Barber
Miss Berrian

Mrs. Caudill

Mr. F. Osborne
Mr. Patton

Requirements in Psychology:

<i>For a Major:</i>	Sem. Hrs.
Psychology 153, 481, and 485 -----	9
Electives in psychology approved by the department	21
	<hr style="width: 100px; margin-left: auto; margin-right: 0;"/> 30
Additional requirements—Mathematics 453.	
Also recommended—Two years of one foreign language, Biology 331 and Biology 304.	

For a Minor:

Psychology 153 -----	3
Electives in psychology approved by the department	18
	<hr style="width: 100px; margin-left: auto; margin-right: 0;"/> 21
Additional requirement—Mathematics 353.	

Psychology 153 is a prerequisite for all psychology courses beyond the freshman level. Mathematics 353 is a prerequisite for all psychology courses numbered 390 and above.

For all psychology courses numbered 550 and above twenty-four semester hours of credit in psychology and Mathematics 453, or its equivalent, are required as prerequisites.

Requirements in Special Education:

**For a Major:*

Education 330, 350, 355, 427 or 477, and 437 -----	16
Electives in special education approved by the department -----	14
	<hr style="width: 100px; margin-left: auto; margin-right: 0;"/> 30

For a Minor:

Education 330, 350, 355, 427 or 477, and 437 -----	16
Electives in special education approved by the department -----	6
	<hr/> 22

* Students may elect to complete certification requirements in either elementary or secondary special education. At least 12 hours of approved special education credit must be completed prior to admission to the Professional Semester. During student teaching, students will teach in either an educable or trainable special education class depending upon their professional goals.

DESCRIPTION OF COURSES

Psychology**Psychology 153. General Psychology. Three hours.**

An introductory course including the following topics: psychology as a science; the various systems of psychology; heredity; emotional behavior; the neural system; intelligence and individual differences; mental growth; intelligence tests and testing; and applications of the various psychological theories.

Psychology 205. Mental Health. Three hours.

The principles of biosocial development with an approach to understanding the factors influencing emotional health and focusing attention on the meaning and importance of mental hygiene; the mental health point of view; communication, group dynamics.

Psychology 210. Human Growth and Development I. Three hours. (See Education 210.)**Psychology 221. Child Psychology. Three hours.**

General principles of child development; influences affecting physical, mental, and emotional growth; development of memory; imagination and creative ability; social and personality development; conflict and aggression; cooperation and friendship.

Psychology 222. Adolescent Psychology. Three hours.

The meaning and significance of adolescence; physical, emotional, social, and mental growth; adolescent interests; home, school, and community problems of the adolescent; personality development.

Psychology 330. Psychology of Exceptional Children. Three hours.

The psychology, behavior and treatment of children having superior or inferior mental abilities; perceptual handicaps, orthopedic problems, and behavioral disorders, and the general methods of facilitating growth, therapy, and research in this area.

Psychology 353. Industrial Psychology. Three hours.

Applied experimental and engineering psychology. Surveys of basic engineering data with emphasis on experimental procedure, receptive and motor capacities, and their application to equipment design and other problems.

Psychology 354G. Social Psychology. Three hours.

(See Sociology 354.)

Psychology 355G. Abnormal Psychology. Three hours.

Types of abnormalities; causes, symptoms, treatment, and prevention; attention given to mental health.

Psychology 381G. Measurement Principles and Techniques. Three hours. (See Education 381G.)

Psychology 389G. Psychology of Learning. Three hours.

The fundamental principles of learning including acquisition, retention, forgetting, problem solving, and symbol formation; experimental studies; the application of principles to practical problems in habit formation, development of skills, remembering, and logical thinking.

Psychology 390. Psychology of Personality. Three hours.

The development and structure of personality. Temperament, aptitudes, motives, attitudes, interests, and values considered as types of traits. Attention given to personality and theories of personality. Cultural implications for maturity in mental health in relation to personality.

Psychology 421. Physiological Psychology. Three hours.

Physiological mechanisms of normal human and animal behavior. Anatomy and physiology relevant in the study of sensory and motor functions, emotion, motivation, and learning.

Psychology 422. Comparative Psychology. Three hours.

Theory and application of field and laboratory techniques used

in understanding behavior of animals and the measurement of abilities. Areas studied include: instinct, learning, motivation, personality, sensory discrimination, heredity, and perception.

Psychology 456G. Introduction to Clinical Psychology. Three hours.

A survey of basic theoretical issues and research in the areas of assessment and psychotherapy, ethical, legal, and other professional problems in clinical psychology. Emphasis on clinical aspects of the school psychologists' functions in working with school age children.

Psychology 458. Psychological Testing. Three hours.

A general introduction to psychological testing. Includes interest inventories, measurement and evaluation of personality, proficiency, performance, attitudes, temperament, aptitude, capacity, and intelligence through use of group assessment instruments used in psychological research, guidance, education, social research, business and industry.

Psychology 481G. Experimental Psychology I. Three hours.

The study of experimental methods and design related to sensation, perception, discrimination, learning, forgetting, and retention.

Psychology 482G. Experimental Psychology II. Three hours.

A continuation of Psychology 481G. This course includes original psychological experimentation by the student, theory laboratory method, and data analysis.

Psychology 484G. Perception. Three hours.

Sensory and physical basis of perception; the interaction of environmental information with complex psychological processes.

Psychology 485G. Systems and Theories. Three hours.

An intensive study of the more influential historical systems of psychology including structuralism, functionalism, associationism, behaviorism, Gestalt psychology, and psychoanalysis, and a treatment of contemporary developments.

Psychology 486G. Motivation. Three hours.

A consideration of the bases of human and animal motivation in relation to other psychological processes.

Psychology 500. Seminar. Two to Nine hours.

Prerequisite: Permission of major professor in Psychology. May be repeated for credit.

Psychology 509. Advanced Educational Psychology. Two hours.
(See Education 509.)

Psychology 510. Advanced Human Growth and Development. Three hours. (See Education 510.)

Psychology 512. Aspiration and Ability Evaluation. Three hours.
Administration, interpretation and use of tests in individual and group guidance; educational diagnosis; evaluation of student interests and abilities. Establishing evaluation programs in the schools to measure achievement, attitudes, interests, and pupil abilities.

Psychology 521. Advanced Physiological Psychology. Three hours.

Interaction of physiology and behavior, including the study of the peripheral and central nervous systems as they relate to motor coordination and reflex processes.

Psychology 533. Personality Theory. Three hours.

An examination of theories of personality. The relation of current theories to psychological research will be examined.

Psychology 534. Learning Theory. Three hours.

An examination of theories of learning and perception. The relation of these theories to psychological research will be examined.

Psychology 557. Mental Measurements I. Three hours.

Types of psychometric and objective methods to measure mental ability and behavior. Special emphasis on training students to evaluate ability and transmit data on learning and behavior problems of clients to other professionals and school personnel.

Psychology 558. Mental Measurements II. Three hours.

A continuation of Psychology 557. Increased emphasis on evaluative procedures.

Psychology 561. Introduction to Projective Techniques. Three hours.

Projective tests as instruments for collecting thought content, attitudes, and feelings; their use in clinical diagnosis and therapy. Practice in administering, scoring, and interpretation.

Psychology 562. Advanced Projective Techniques. Three hours.

A continuation of Psychology 561.

Psychology 564. Construction of Testing Instruments. Three hours.

Principles involved in construction of different types of standardized tests, followed by the construction and item analysis of two original tests by the student.

Psychology 572. Internship in School Psychology. Six to twelve hours.

Placement in school and clinical settings of school psychology trainees for internship under qualified supervision. Open only to advanced graduate students in the school psychologist program. Six hours minimum credit required.

Psychology 573. Clinical Methods. Three hours.

Techniques and theories of the psychotherapeutic and psychodiagnostic processes. Intensive use of projective and objective instruments with preschool and school age populations. Open only to advanced students in the school psychologist program.

Psychology 590. Psychological Research. Two to nine hours.

A seminar research design and problems course providing an opportunity to explore in depth, specific areas of research related to the student's principal professional objective.

SPECIAL EDUCATION

Education 330. Education of Exceptional Children. Three Hours.

Procedures for the identification, education and treatment of exceptional children—the gifted, those with low intelligence, and the handicapped—including the behavior deviations involved.

Education 350G. Nature and Needs of Retarded Children. Three hours.

The physical, psychological, and educational needs of the educable and trainable mentally retarded children; research pertaining to the nature and needs of the mentally retarded; ways of developing maximum abilities.

Education 427. Professional Semester. Fifteen hours.

This course, for which the student enrolls during either the first or second semester of the senior year, completes the individual's pro-

fessional training at the undergraduate level and includes those phases of such training as are found in courses carrying titles of Educational Psychology, Fundamentals of Elementary Education and Supervised Student Teaching in Special Education for Educable Mentally Retarded or the Trainable Mentally Retarded at either the elementary or secondary levels, depending upon the student's area of professional interest. Three hours of the Student Teaching is done in classes for retarded children.

Education 437G. Diagnostic and Remedial Techniques. Three Hours.

Diagnostic testing; the causes of retardation; specific disabilities in school subjects; behavior problems; cumulative record keeping; case studies; remedial techniques.

Education 452G. Special Problems in Learning Disorders. Two Hours.

An examination of psychological, medical, and educational literature involved with survey, clinical, and experimental work concerning a specific learning disorder. Diagnosis, therapy and prognosis relative to a specific learning impairment or a cluster of related elements. For example, the student may choose to study in depth, topics such as cultural asynchrony, organisity, dyslexia, neuromuscular dysfunctions, diseases and conditions due to prenatal influences, etc.

Education 465G. Auditory and Visual Problems. Three hours.

Techniques for measuring hearing threshold with emphasis on the educational implication of impaired hearing; group screening, individual pure-tone testing, and speech audiometry. Identification of the partially sighted and materials and methods to aid in teaching the visually handicapped.

Education 510. Advanced Human Growth and Development. Three hours.

A study of the developmental processes in childhood and adolescence. Application of principles of development, research findings, theory to human behavior.

Education 555. Teaching the Exceptional Child. Two hours for each sub-section of the course. Maximum credit of ten hours.

A—Educable Mentally Retarded

B—Trainable Mentally Retarded

C—Gifted Children

D—Emotionally Disturbed

E—Physically and Perceptually Handicapped

Evaluation and practice in the use of materials, methods and curricula sequences for special class children. Emphasis is placed on adapting learning environments related to language, art, social skills, quantitative operations, health and creative activities to meet the demands of children with special learning disorders or talents.

Education 561. Exceptional Child Research and Problems. Two to six hours.

A seminar research problems course that provides students with an opportunity to explore in depth particular problems related to learning disorders.

Education 568. Organization of Special Classes in the School. Two hours.

A consideration of the relation between the special class teacher and students within the matrices of the larger school community. Techniques of parental counseling and introduction of the students into the work and the social aspects of the larger community.

Education 575. Practicum in Special Education. Three to six hours.

Supervised practice in working with specific groups of exceptional children in educational, clinical, or institutional settings using a holistic, multi-discipline approach to therapy and/or prescriptive teaching. Credit towards student teaching and/or clinical experience with retarded, partially sighted, hearing loss, gifted, disturbed, physically handicapped, speech disorder or multiple handicapped children or adolescents is provided, depending on the students' area of concentration.

Health, Physical Education and Recreation

Mr. Laughlin, Acting Chairman of the Division
Mr. Chaney, Director of the Program in Recreation Education
Mr. Raines, Director of the Program in Health Education
Mr. Sabie, Acting Director of Men's Physical Education
Mrs. Ward, Director of Women's Physical Education

Mr. Allen	Mr. Harbaugh	Mr. Penny
Mr. Banks	Mr. Kelly	Mr. Peterson
Mr. Bentley	Mr. Kingery	Mrs. Sanders
Mr. Brown	Mr. Mack	Mr. Stewart
Mr. Chapman	Mr. D. Miller	Mr. Thompson
Mr. Hallum	Mrs. Osborne	Mr. Wells
Mr. Hamilton	Mr. Osborne	Mr. Wright

Objectives:

1. Provide programs that indicate how health, physical education, and recreation contribute to effective living.
2. Offer sufficient undergraduate and graduate courses to accommodate and challenge all students.
3. Provide opportunities for acquiring knowledge, skills, and attitudes that provide satisfaction and competence.
4. Inculcate behavior that reflects desirable personal traits.
5. Encourage competent persons to enter the profession.
6. Develop understanding of the service and professional requirements of the division.
7. Stimulate a professional awareness among those interested in health, physical education and recreation.
8. Cooperate with professional and service organizations.
9. Assist communities with the presentation of adequate programs through clinics, workshops, extension courses, consultant service, conferences, and affiliation programs.
10. Develop qualified people for the profession of health, physical education, and recreation.

Requirements:

For an Area of Concentration in Health, Physical Education, and Recreation:

<i>Core Requirements:</i>	Sem.	Hrs.
Health 203, 303, and 402 -----	8	
Physical Education 104, 120, 130 or 131, 132, 150, 301 and 401 -----	12	
Recreation 201, 219, 285, 286, and 288 -----	10	
Emphasis on either of the following specialties (Choose one):	18	
Health 205, 300, 320, 341, 342, 360, 432, and 475 or		
Physical Education (Men) 100, or 103, 101 or 102, 105, 106M, 111M, 113, 114, 115, 122 or 123, 204, 304, and 475		
To be selected from Physical Education 109M or 119M	2	
To be selected from Physical Education 309M, 319M, 409M, or 419M -----	2	
or		
Physical Education (Women) 100 or 103, 101 or 102, 105, 113 or 116, 114, 121, 122 or 123; 135W, 136W, 204, 304, 306W, 308W, and 475		
or		
Recreation 101, 209, 290, 305, 310, 370, 388, 475, and 490		

**Additional Requirements—All students completing this Area:*

Health 150 and 304 -----	4
Physical Education 303 -----	2
Biology 331 and 332 -----	6

*Students wishing to have this certificate validated for teaching in the elementary grades must earn credit for Education 333 and Health 300 or Physical Education 300. Education 333 is taught only during the Summer Session.

**For a Major in Physical Education and Health (Men):* Sem. Hrs.

Physical Education 104, 120, 130-131 or 132, 150, 204, 301, 303, 304, and 401 -----	16
Selected from Physical Education 109M or 119M ----	2
Selected from Physical Education 309M, 319M, 409M, or 419M -----	2
Four activity courses approved by the department ----	4
Health 150, 203, 303, 304, and 402 -----	12

36

Additional requirements: Biology 331 and 332

*Students wishing to have their certificates validated for teaching health and physical education in the elementary grades must earn credit for Physical Education 300, Health 300, and Education 333. Education 333 is offered only during the summer session.

*For a Major in Physical Education and Health (Women):

Physical Education 104, 120, 130-131 or 132, 150, 204, 301, 303, 304, 306W, 308W and 401 -----	20
Four activity courses approved by the department ----	4
Health 150, 203, 303, 304, and 402 -----	12

36

Additional requirements: Biology 331 and 332

*Students wishing to have their certificates validated for teaching health and physical education in the elementary grades must earn credit for Physical Education 300, Health 300, and Education 333. Education 333 is offered only during the summer session.

For a Minor in Physical Education and Health (Elementary Majors only):

This minor cannot be used when qualifying for the Provisional High School Certificate. The exact course requirements for this minor must be arranged with the Head of the Men's Physical Education Department or the Women's Physical Education Department, but minimum requirements in each subject are as follows:

Health—minimum of 6 hours

Physical Education, activity courses—minimum of 2 hours

Physical Education, other courses—minimum of 6 hours

Recreation—minimum of 4 hours

For the Minor—minimum of 24 hours

For a Minor in Physical Education—minimum of 21 hours

Arrangements for this minor may be made with the Head of the Men's Physical Education Department or the Head of the Women's Physical Education Department.

SUGGESTED PROGRAMS

The following programs have been devised to aid students in selecting their courses and making their schedules. These suggested schedules need not be followed specifically from semester to semester, but close adherence to them will aid the student in meeting the requirements for graduation.

Provisional High School Certificate with an Area of Concentration in Health, Physical Education and Recreation

FRESHMAN YEAR

First Semester			Second Semester		
Eng.	101—Composition I	3	Fng.	102—Composition II	3
P.E.	120—Basic Rhythms	1	Ed.	100—Orientation in Education	1
Hlth.	150—Personal Health	2	Hlth.	203—First Aid and Safety	2
Sci.	103—Intro. to Physical Sci.	3		Humanities or Com.	
P.E.	150—Intro. to Physical Ed.	2		Elective	3
P.E.	104—Gymnastics	1	Psy.	153—General Psychology	3
	Social Science Elective	3		Social Science Elective	3
	Military (Men)			Military (Men)	
	or	2		or	2
	Elective (Women)			Elective (Women)	
		17			17

SOPHOMORE YEAR

First Semester			Second Semester		
Eng.	202—Intro. to Literature	3	Ed.	210—Human Gr. and Develop. I	3
P.E.	132—Life Saving	1	Rec.	235—Community Recreation	2
Sci.	105—Intro. to Biological Sci.	2	Rec.	286—Recreation Leadership	2
P.E.	219—Recreational Sports	2		Humanities or Com.	
Rec.	201—Outdoor Recreation	2		Elective	3
Rec.	288—Rec. Arts and Crafts	2		Emphasis in HPER	2
	Military (Men)			Elective	3
	or	2		Military (Men)	
	Elective (Women)			or	2
		15		Elective (Women)	
					17

JUNIOR YEAR

First Semester			Second Semester		
Biol.	331—Human Anatomy	3	Biol.	332—Human Physiology	3
Hlth.	300—Health in the Elem. Sch.	2	Hlth.	304—Health in the Sec. Sch.	2
S.S.	300—Current World Problems	3	Ed.	300—Intro. to Student Teach.	1
	Humanities or Com.		P.E.	301—Evaluation in HPER	3
	Elective	3	P.E.	303—Phys. Ed. in the Sec. Sch.	2
	Emphasis in HPER	6		Emphasis in HPER	6
		17			17

SENIOR YEAR

First Semester			Second Semester		
Hist.	400—American Foundations	3	Ed.	477—Professional Semester	15
P.E.	401—Organ. and Adm. of Phys. Ed.	3		(The Professional Semester may be taken either semester of the senior year)	
Hlth.	402—Kinesiology	3			
Hlth.	303—Community Health	3			
	Emphasis in HPER	4			
		16			15

Provisional High School Certificate with a Major in Physical Education and Health

FRESHMAN YEAR

First Semester			Second Semester		
Eng.	101—Composition I	3	Eng.	102—Composition II	3
P.E.	—Activity course	1	P.E.	—Activity courses	2
Sci.	103—Intro. to Physical Science	3	Psy.	153—General Psychology	3
Hlth.	150—Personal Health	2	Ed.	100—Orientation in Education	1
P.E.	150—Intro. to Physical Educ.	2		Humanities or Com.	
	Social Science Elective	3		Elective	3
	Military (Men)			Social Science Elective	3
	or			Military (Men)	
	Elective (Women)	2		or	
				Elective (Women)	2
<hr/>			<hr/>		
16			17		

SOPHOMORE YEAR

First Semester			Second Semester		
Eng.	202—Intro. to Literature	3		Humanities or Com.	
Sci.	105—Intro. to Biological Sci.	3		Elective	3
Hlth.	203—First Aid and Safety	2	Ed.	210—Human Gr. and Devel. I	3
P.E.	—Activity courses	2	Hlth.	303—Community Health	3
P.E.	204—Officiating	2		Activity courses	2
	Humanities or Com.			Elective	3
	Elective	3		Military (Men)	
	Military (Men)			or	
	or			Elective (Women)	2
	Elective (Women)	2			
<hr/>			<hr/>		
17			16		

JUNIOR YEAR

First Semester			Second Semester		
Ed.	300—Intro. to St. Teaching	1	S.S.	300—Current World Problems	3
Biol.	331—Human Anatomy	3	Biol.	332—Human Physiology	3
P.E.	301—Evaluation in HPER	3	P.E.	309—Team Sports	2
P.E.	109—Individual Sports	2	P.E.	304—Affiliation in P.E.	1
P.E.	303—P.E. in the Secondary Sch.	2	Hlth.	304—Health in the Sec. Sch.	2
	Elective	6		Elective	5
<hr/>			<hr/>		
17			16		

SENIOR YEAR

First Semester			Second Semester		
Hist.	400—American Foundations	3	Ed.	477—Professional Semester	15
Hlth.	402—Kinesiology	3		(The Professional Semester may be taken either semester of the senior year)	
P.E.	401—Org. and Adm. of P.E.	3			
	Elective	7			
<hr/>			<hr/>		
16			15		

DESCRIPTION OF COURSES

OPEN TO BOTH MEN AND WOMEN

All activity courses carrying one hour credit meet two hours per week for eighteen weeks or four hours per week for nine weeks.

Physical Education 100. Golf. One hour.

Emphasis on skill, knowledge and techniques for individual participation.

Physical Education 101. Tennis. One hour.

Emphasis on skill, knowledge, tactics and techniques for individual participation.

Physical Education 102. Badminton. One hour.

Emphasis on skill, knowledge, tactics and techniques for individual participation.

Physical Education 103. Archery. One hour.

Emphasis on skill, knowledge, tactics and techniques for individual participation.

Physical Education 107. Bowling. One hour.

Acquaint the student with the basic movement skills involved in bowling. Other factors considered will be knowledge of the rules, scoring, and the accepted procedures used in individual and team play.

Physical Education 108. Restricted Physical Education. One hour.

For students with either a structural or functional problem which prevents their participation in the regular program. (May be repeated one time for credit)

Physical Education 114. Track and Field. One hour.

Emphasis on skill, knowledge and techniques for individual participation.

Physical Education 115. Apparatus. One hour.

Comprehensive course in teaching and coaching gymnastics.

Physical Education 116. Lacrosse. One hour.

Acquaint the students with the basic skills involved in lacrosse. Other factors considered will be techniques and methods of playing and knowledge of rules.

Physical Education 120. Basic Rhythms. One hour.

Large muscles activity performed to a beat or rhythm; a means of self-expression.

Physical Education 121. Modern Dance. One hour.

History of the dance techniques, rhythmic fundamentals, use of music and response to music for development of rhythmic patterns; creative dance composition.

Physical Education 122. Social Dance. One hour.

To learn the basic steps and combination of popular dances; to acquire a skill in these steps to participate in dancing for pleasure and satisfaction.

Physical Education 123. Folk and Square Dance. One hour.

Traditional social dances of people of many nations, including the American square dance.

Physical Education 130. Beginning Swimming. One hour.

To learn to swim well enough to care for one's self under ordinary conditions.

Physical Education 131. Intermediate Swimming. One hour.

Prerequisite: Satisfactory completion of beginning swimming or passing of a standard test. Perfection of standard strokes; diving.

Physical Education 132. Life Saving. One hour.

Prerequisite: Physical Education 131 or passing a standard test.

Personal safety and self-rescue skills so that one may be capable of taking care of one's self. The ability to aid or rescue anyone in danger of drowning, if rescue is possible, by the best and safest method applying to the situation.

Physical Education 150. Introduction to Physical Education. Two hours.

Principles and basic philosophy; aims and objectives; standards, and significance in the profession of physical education.

Physical Education 204. Officiating. Two hours.

Interpretation of rules for football and basketball. Methods and techniques of officiating; laboratory experience in officiating.

Physical Education 209. Recreational Sports I. Two hours.

Emphasis on the development of performance skill and teaching techniques in archery, softball and aerial darts. Four class and/or laboratory hours per week.

Physical Education 219. Recreational Sports II. Two hours.

Emphasis on the development of performance skill and teaching techniques in volleyball, bowling, speedball, soccer, paddle ball, and handball. Four class and/or laboratory hours per week.

Physical Education 300. Physical Education in the Elementary School. Two hours.

Selection and organization of materials and techniques of instruction for the elementary school program.

Physical Education 301. Evaluation in Health, Physical Education and Recreation. Three hours.

Methods, techniques, and procedures used in the evaluation of students of health, physical education and recreation.

Physical Education 303. Physical Education in the Secondary School. Two hours.

Selection and organization of materials and techniques of instruction for the secondary school program.

Physical Education 304-305. Affiliation in Physical Education. One hour.

Students will observe and assist a staff member in one or more of the service classes. The course is designed to give the student practical teaching experience under the guidance of qualified instructors within a particular area.

Physical Education 401. Organization and Administration of Physical Education. Three hours.

The arrangement of the units making up the physical education program, and the process of leadership by which the various aspects are brought together in a functioning whole.

Physical Education 402. Kinesiology. Three hours.

Prerequisite: Biology 332.

Same as Health 402.

Physical Education 403. Drivers Education. Two hours.

Motor traffic safety; techniques for instructing student drivers; administering driving tests. Open only to juniors and seniors who are qualified drivers.

Physical Education 432G. Physiology of Exercise. Two hours.

Prerequisite: Physical Education 402, or concurrently, or permission of instructor.

Same as Health 432G.

Physical Education 475G. Adapted Physical Education. Two hours.

The nature and extent of the problem of exceptional students and the means whereby these students can be aided through physical education.

Physical Education 500. Current Problems. Two hours.

The purpose of this course is to identify, evaluate and propose solutions for problems confronted by individuals and groups who are concerned with health, physical education and recreation.

Physical Education 501. Tests and Measurements in Health, Physical Education and Recreation. Three hours.

Advanced principles of evaluation in health, physical education and recreation.

Physical Education 503. Theory and Philosophy of Dance. Two hours.

The relationship of aesthetics and dance in education and as a performing art.

Physical Education 504. History and Principles of Physical Education. Three hours.

Development of physical education; analysis of its aims, objectives and principles.

Physical Education 505. Planning Facilities. Two hours.

A study of school facilities, equipment, site selection, building plans and equipment placement in programs of health, physical education and recreation.

Physical Education 508. Analysis of Motor Skills. Three hours.

Application of the principles of physics to the various skills in motor activities.

Physical Education 570. Research Problems. One to three hours.
Arranged to meet the needs of the student.**SECTIONS FOR MEN AND SECTIONS FOR WOMEN****Physical Education 104. Gymnastics. One hour.**

Self-testing activities; tumbling, apparatus, and tramoline.

Physical Education 105. Conditioning. One hour.

Emphasis on developing physical fitness through a variety of exercises and activities.

Physical Education 113. Soccer. One hour.

Rules, techniques and participation in soccer.

Physical Education 115. Softball. One hour.

Rules, techniques and participation in softball.

Physical Education 116. Volleyball. One hour.
Rules, techniques and participation in volley ball.

COURSES FOR WOMEN ONLY

Physical Education 135W. Field Hockey. One hour.
Designed to familiarize the student with fundamental skills and techniques in field hockey.

Physical Education 136W. Basketball. One hour.
Designed to familiarize the student with fundamental skills and techniques in basketball.

Physical Education 306W. Individual Sports I. Two hours.
Techniques and methods in individual sports to be used in teaching sports skills. Four classes and/or laboratory hours per week.

Physical Education 308W. Team Sports I. Two hours.
Techniques, knowledge, methods of teaching and source materials in teaching sports skills. Four classes and/or laboratory hours per week.

COURSES FOR MEN ONLY

Physical Education 106M. Wrestling. One hour.
Rules of interscholastic and intercollegiate wrestling, various holds and escapes, and conditioning necessary to perform.

Physical Education 109M. Individual Sports I. Two hours.
Emphasis on the development of performance skill and teaching techniques in tennis, badminton, and golf. Four class and/or laboratory hours per week.

Physical Education 111M. Touch Football and Basketball. One hour.
Rules, techniques, and participation in touch football and basketball.

Physical Education 119M. Individual Sports II. Two hours.
Emphasis on the development of performance skill and teaching techniques in wrestling, gymnastics, and swimming. Four class and/or laboratory hours per week.

Physical Education 302M. Athletic Injuries. Two hours.
Theory and practice of massage, bandaging, taping and caring for athletic injuries. Two hours lecture and one hour laboratory weekly.

Physical Education 308M. Baseball Techniques. Two hours.

The fundamentals and strategy of baseball are covered from both the theoretical and practical aspects.

Physical Education 309M. Team Sports I. Two hours.

Emphasis on the development of performance skill and teaching techniques in basketball. Four class and/or laboratory hours per week.

Physical Education 319M. Team Sports II. Two hours.

Emphasis on the development of performance skill and teaching techniques in track and field, cross-country, and baseball. Four class and/or laboratory hours per week.

Physical Education 409M. Team Sports III. Two hours.

Emphasis on the development of performance skill and teaching techniques in football. Four class and/or laboratory hours per week.

Physical Education 419M. Team Sports IV. Two hours.

Emphasis on the development of performance skills and teaching techniques in cross-country and track and field.

HEALTH

Requirements:	Sem. Hrs.
<i>For a Major:</i>	
Health 150, 203, 205, 300, 303, 304, 320, 341, 342, 360, 402, 432 and 475 -----	30
<i>For a Minor (Secondary):</i>	
Health 150, 203, 205, 303, 304, 320, 360, and 475 -----	21
<i>For a Minor (Elementary Education):</i>	
Health 150, 203, 205, 300, 303, 320, and 360 -----	18

SUGGESTED PROGRAM

The following program has been devised to help students in selecting their courses and making their schedules. These suggested schedules need not be followed specifically from semester to semester, but close adherence to them will aid the students in meeting the requirements for graduation.

Provisional High School Certificate with a Major in Health

FRESHMAN YEAR

First Semester			Second Semester		
Eng.	101—Composition I	3	Eng.	102—Composition II	3
P.E.	—Activity course	1	P.E.	—Activity course	1
	Humanities or Com. Elec.	3	Ed.	100—Orientation in Education	1
	Social Science Elective	3		Social Science Elective	3
Psy.	153—General Psychology	3	Sci.	103—Intro. to Physical Science	3
Hlth.	150—Personal Health	2	Hlth.	203—First Aid and Safety	2
	Military (Men)			Military (Men)	
	or	2		or	2
	Elective (Women)			Elective (Women)	
		17			15

SOPHOMORE YEAR

First Semester			Second Semester		
Eng.	202—Intro. to Literature	3		Humanities or Com. Elec.	3
	Humanities or Com. Elec.	3	Ed.	210—Human Gr. and Devel.	1
Sci.	105—Intro. to Biological Sci.	3	Hlth.	205—Mental Health	3
Hlth.	300—Health in the Elem. Sch.	2	Hlth.	304—Health in the Sec. Sch.	2
	Elective	3		Elective	3
	Military (Men)			Military (Men)	
	or	2		or	2
	Elective (Women)			Elective (Women)	
		16			16

JUNIOR YEAR

First Semester			Second Semester		
S.S.	300—Current World Problems	3	Ed.	300—Intro. to St. Teaching	1
Biol.	331—Human Anatomy	3	Biol.	332—Human Physiology	3
Hlth.	303—Community Health	3	Hlth.	320—Elements of Nutrition	3
Hlth.	341—Affiliation in Health	1	Hlth.	342—Affiliation in Health	1
	Elective	7	Hlth.	360—Family Health	3
				Elective	6
		17			17

SENIOR YEAR

First Semester			Second Semester		
Hist.	400—American Foundations	3	Ed.	477—Professional Semester	15
Hlth.	402—Kinesiology	3		(The Professional Semester may be taken either semester of the senior year)	
Hlth.	432—Physiology of Exercise	2			
Hlth.	475—School Health Program	3			
	Elective	4			
		15			15

DESCRIPTION OF COURSES

Health 150. Personal Health. Two hours.

Satisfies the general education requirement. Principles and practices of healthful living; personal, family, and community aspects of health. Two lecture-discussion hours per week.

Health 203. First Aid and Safety. Two hours.

Red Cross Standard, Advanced, and Pre-Instructor First Aid; safety education and accident prevention program in school, industry, and public service. Two lecture-laboratory hours per week.

Health 204. Instructor First Aid. One hour.

Red Cross First Aid Instructor Training Course. One lecture-laboratory hour per week.

Health 205. Mental Health. Three hours.

Prerequisite: Psychology 153.

(See Psychology 205.)

Health 300. Health in the Elementary School. Two hours.

Prerequisite: Admission to the Teacher Education Program.

Health needs of the elementary school student; educational theory and methods as applied to health teaching on the elementary school level. Two lecture-discussion hours per week.

Health 303. Community Health. Three hours.

Prerequisite: Health 150.

Principles and practices of health as applied to the community: the nature of the community, problems of community health, community health education. Three lecture-discussion hours per week.

Health 304. Health in the Secondary School. Two hours.

Prerequisite: Admission to the Teacher Education Program.

Health needs of the secondary school student; educational theory and methods as applied to health teaching on the secondary school level. Two lecture-discussion hours per week.

Health 320. Elements of Nutrition. Three hours.

(See Home Economics 320.)

Health 341. Affiliation in School Health. One hour.

Prerequisite: Major in Health Education, Health 304, and permission of instructor.

Guided observation in school health on the secondary level. Two laboratory hours per week.

Health 342. Affiliation in Community Health. One hour.

Prerequisite: Major in Health Education, Health 303, and permission of instructor.

Guided observation in community health in an approved public health agency. Two laboratory hours per week.

Health 360. Family Health. Three hours.

Prerequisite: Major or minor in Health Education, and Health 303.

Study of the family and family living: family health, parenthood, infant and child care. Three lecture-discussion hours per week.

Health 402. Kinesiology. Three hours.

Prerequisite: Biology 332.

Study of human motion: anatomy and physiology, mechanics, analysis, applications. Three lecture-demonstration hours per week.

Health 432G. Physiology of Exercise. Two hours.

Prerequisite: Health 402, or concurrently; or permission of instructor.

Study of the response of the body to muscular activity: nature of contraction, work and efficiency, circulatory adjustment, training and fitness. Two lecture-discussion hours per week.

Health 475. The School Health Program. Three hours.

Prerequisite: Major or minor in Health Education, and Health 300 or 304.

Study of all aspects of elementary and secondary level school health: the school child, development, organization, administration, evaluation. Three lecture-discussion hours per week.

Health 501. School Health Services. Two hours.

Prerequisite: Twelve hours of undergraduate credit in Health.

Seminary approach to the total program of health in the school: health education, health services, health environment. Two discussion hours per week.

Health 512. Public Health Services. Two hours.

Prerequisite: Twelve hours of undergraduate credit in Health.

Seminar approach to the total program of public health: history, philosophy, administration, services. Two discussion hours per week.

Health 570. Research Problems. One to three hours.

Prerequisite: Twelve hours of undergraduate credit in Health and permission of instructor.

Intensive investigation of a program in health; program must be approved prior to enrollment. Conferences with instructor as necessary.

RECREATION**Requirements:***For a Major:*

Sem. Hrs.

Recreation 101, 201, 209, 219, 285, 286, 288, 290,	
305, 310, 370, 388, 471, 475, and 490 -----	30

For a Minor: ----- 21

Arrangements for this minor may be made with
the Head of the Department of Recreation.

For the Associate—Two-Year Program in Recreation:

Recreation 101, 201, 209, 219, 285, 286, 288, 290,
and 370 ----- 18

Physical Education 109, 119, and 300 ----- 6

Health 203 ----- 2

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SUGGESTED PROGRAMS

The following programs have been devised to help students in selecting their courses and making their schedules. These suggested schedules need not be followed specifically from semester to semester, but close adherence to them will aid the student in meeting all requirements for graduation.

Four-Year Program in Recreation

(At the present time, Recreation is not recognized as an approved teaching area in Kentucky. The student who desires to major in Recreation *must select a second major from an approved area if he wishes to qualify for certification.* Before making this decision the student should confer with the Head of the Department of Recreation.)

FRESHMAN YEAR

First Semester			Second Semester		
Eng.	101—Composition I	3	Eng.	102—Composition II	3
P.E.	—Activity course	1	Ed.	100—Orientation in Education	1
	Humanities or Com. Elec.	3	Sci.	103—Intro. to Physical Science	3
Soc.	101—General Sociology	3	Psy.	153—General Psychology	3
Rec.	101—Outdoor Skills	2	Rec.	201—Outdoor Recreation	2
Hlth.	150—Personal Health	2		Humanities or Com. Elec.	3
	Military (Men)	2		Military (Men)	2
	or			or	
	Elective (Women)	2		Elective (Women)	2
<hr/> 16			<hr/> 17		

SOPHOMORE YEAR

First Semester			Second Semester		
Eng.	202—Intro. to Literature	3	Ed.	210—Human Gr. and Devel. I	3
P.E.	—Activity course	1	Sci.	105—Intro. to Biol. Science	3
	Humanities or Com. Elec.	3	Rec.	219—Recreational Sports II	2
Rec.	209—Recreational Sports I	2	Rec.	286—Recreation Leadership	2
Rec.	285—Community Recreation	2	Rec.	305—Social Recreation	2
Rec.	288—Rec. Arts and Crafts	2		Elective	3
Rec.	290—Field Experience	1		Military (Men)	2
	Military (Men)	2		or	
	or			Elective (Women)	2
	Elective (Women)	2	<hr/> 17		
<hr/> 16			<hr/> 17		

JUNIOR YEAR

First Semester			Second Semester		
Ed.	300—Intro. to St. Teaching	1		Social Science Elective	3
	Science or Math Elective	3		Science or Math. Elective	3
Rec.	388—Com. Centers and Play		Rec.	310—Youth Organizations	2
	Gds.	3	S.S.	300—Current World Problems	3
	Elective	9		Elective	6
		<hr/> 16			<hr/> 17

SENIOR YEAR

First Semester			Second Semester		
Hist.	400—American Foundations	3	Ed.	477—Professional Semester	15
Rec.	370—Children's Theatre	3		(The Professional Semester may be taken either semester of the senior year)	
Rec.	475—Rec. for the Handicapped	3			
Rec.	490—Field Experience II	1			
Rec.	471—Seminar	1			
	Elective	6			
		<hr/> 17			<hr/> 15

Associate of Applied Arts Degree

FRESHMAN YEAR

First Semester			Second Semester		
Eng.	101—Composition I	3	Eng.	102—Composition II	3
P.E.	—Activity courses	2	P.E.	—Activity courses	2
Rec.	101—Outdoor Skills	2	Rec.	201—Outdoor Recreation	2
P.E.	109—Individual Sports I	2	P.E.	119—Individual Sports II	2
Hith.	203—First Aid and Safety	2	Rec.	209—Recreational Sports I	2
Soc.	101—General Sociology	3	Psy.	153—General Psychology	3
	Military (Men)			Military (Men)	
	or	2		or	2
	Elective (Women)			Elective (Women)	
		<hr/> 16			<hr/> 16

SOPHOMORE YEAR

First Semester			Second Semester		
Ed.	210—Human Gr. and Devel. I	3	P.E.	—Activity courses	3
P.E.	—Activity courses	3	Rec.	286—Recreational Leadership	2
Soc.	203—Contemp. Social Problems	3	Rec.	219—Recreational Sports II	2
Rec.	285—Community Recreation	2	Rec.	305—Social Recreation	2
Rec.	288—Rec. Arts and Crafts	2	Rec.	370—Children's Theatre	3
Rec.	290—Field Experience	1	P.E.	300—P.E. in the Elem. School	2
	Military (Men)			Military (Men)	
	or	2		or	2
	Elective (Women)			Elective (Women)	
		<hr/> 16			<hr/> 16

DESCRIPTION OF COURSES

Recreation 101. Outdoor Skills. Two hours.

The course emphasizes the basic skills related to camping.

Recreation 201. Outdoor Recreation. Two hours.

Emphasizes the integration of outdoor activities with the school program with attention to utilization of facilities in the local area.

Recreation 209. Recreational Sports I. Two hours.

(See Physical Education 209.)

Recreation 219. Recreational Sports II. Two hours.

(See Physical Education 219.)

Recreation 285. Community Recreation. Two hours.

Emphasizes the general aspects of community recreation, the place of the school and other social institutions in recreation.

Recreation 286. Recreation Leadership. Two hours.

History, theory, and philosophy of recreation. The evaluation of the Recreation Movement and its place; in an age of leisure. Practical techniques of leadership for low organization activities.

Recreation 288. Recreational Arts and Crafts. Two hours.

Methods and materials, techniques of producing all types of crafts suitable for playground, community centers, hospital, school, camp, and club programs.

Recreation 290. Field Experience I. One hour.

Students will observe and assist a staff member in one or more recreation settings. The course is designed to give the student practical experience under the guidance of qualified leadership.

Recreation 305. Social Recreation. Two hours.

Practical application of planning, demonstration and conducting of activities and programs for various social events and gatherings.

Recreation 310. Youth Organizations. Two hours.

History, principles, purpose, of the major youth service organizations with emphasis on leadership techniques and programming.

Recreation 370. Children's Theatre. Two hours.

(See Dramatic Arts 370.)

Recreation 388. Community Centers and Playgrounds. Three hours.

Leadership techniques, programming and operation related to the planning and administration of community centers and playgrounds.

Recreation 471. Seminar. One hour.

Discussion and reporting of current issues and problems in the recreation profession.

Recreation 475. Recreation for the Handicapped. Three hours.

An introduction to the philosophy, objectives and basic concepts of therapeutic recreation. Emphasis on rehabilitation needs within institutional and community settings.

Recreation 477. Recreation Internship. Eight hours.

Planning, leadership, supervision, and program evaluation experience in a community recreation public agency program under qualified administrative leadership and University faculty supervision.

Recreation 490. Field Experience II. One hour.

Students will observe and assist a staff member in one or more recreation settings. The course is designed to give the student practical experience under the guidance of qualified leadership.

Library Science

Miss Williams, Director of the Program

Objectives:

1. To provide basic library courses for classroom teachers, and the elementary and high school librarians.
2. To provide in-service training opportunities for teachers and librarians.
3. To provide a foundation for graduate study in the field of librarianship.

Requirements:

<i>For a Minor:</i>	Sem. Hrs.
Library Science 227, 301G, 311G, 321G, 322G, 411 and 475G -----	25

DESCRIPTION OF COURSES

Library Science 227. Literature and Materials for Children.
Three hours.

A study of poetry; folk and fairy stories; fiction about history, different countries, minority groups, and animals; biography and other nonfictional books. Criteria for judging each group and methods for using each group in the school curriculum are considered. Units on story telling, free and inexpensive materials, and aids in the selection of books and non-book materials are included.

Library Science 301G. Library Organization and Administration.
Three hours.

An introductory course, giving a broad picture of the school library and its function in the total school program. It includes a unit in the history of libraries, the philosophy of school librarianship, the study of housing and equipment, the acquisition and mechanical processing of library materials, circulation routines, public relations, use of student staff, knowledge of library standards, and related topics.

Library Science 311G. Cataloging and Classification. Three hours.

The Dewey Decimal Classification; principles and methods of simplified cataloging, including subject headings needed by school librarians. Skill in typing is required.

Library Science 321G. Books and Materials for Young People. Three hours.

A study of the underlying principle of selecting books and related materials for young people. Included are—a study of reading interests, development of criteria for judging books and materials, understanding of book reviews and book talks, and an acquaintance with selection aids. Emphasis on reading novels, short stories, drama, biography, travel, and readable books in other nonfiction fields.

Library Science 322G. Books and Materials for Adults. Three hours.

The library in adult education; books and other informational materials; appraisal of reading interests, habits, needs and abilities; techniques of reading guidance.

Library Science 382G. Audio-Visual Aids in Instruction. Three hours.

(See Education 382G.)

Library Science 411G. Reference and Bibliography. Three hours.

This is a study of general reference books and reference books in certain subject fields. Some practice in bibliography making is included.

Library Science 475G. School Library Practice. Four hours.

Prerequisites: All other library science courses except those taken the same time as the practice work. At least one half of the library science courses in residence at Morehead State University.

The practical application of all procedures which are used in a modern school library. Reading guidance, story telling, book talks, and organization of unit materials are stressed.

Library Science 511. Subject Bibliography. Three hours.

Prerequisite: Library Science 411G or equivalent.

A comprehensive study of the reference materials in the humanities, the social studies, and the natural and applied sciences.

Library Science 527. Research in Children's Literature. Three hours.

Prerequisite: A course in Literature for Children.

Open to those students prepared to carry on semi-independent study in the literature for children and youth. The reading of books for children and youth and the studying in depth of one area are required.

Library Science 570. Research Problems. Three hours.

Prerequisites: Library science courses leading to the provisional certificates and Education 500.

For experienced librarians concerned with improving library services in elementary, junior, and senior high schools. Problems will be selected that will afford the opportunity for comprehensive investigation in one or more areas of library service.



SCHOOL OF HUMANITIES

Johnson E. Duncan, Dean

Art

Music

Languages and Literature

Communications

Philosophy



MOREHEAD STATE UNIVERSITY

SCHOOL OF HUMANITIES

The humanities are those areas of human knowledge which are concerned with man's thoughts, ideals, aspirations, and with his reflective and creative responses. The humanities seek to lead the student in his search for truth, beauty, and the meaning of life. In his search the student is introduced to the world's great philosophers, writers, musicians, artists, and playwrights. Within the limitations of his interests and abilities, every student is given an opportunity to develop his creative talents through writing, speaking, or performing.

Objectives:

1. To provide a climate in which the great ideas and artistic creations of man as expressed through literature, philosophy, art, music, theatre, and the arts of communication may flourish.
2. To encourage the student to express himself through these media in order that he may become an increasingly creative individual both as a person and as a member of society.
3. To discover and encourage the student whose special aptitudes and interests suggest major study in the humanities.
4. To promote the broadening of the artistic and intellectual life of the University and its region by means of concerts, exhibits, lectures, dramatic productions, radio and television programs, clinics, symposia, speeches, and writings of its faculty and students and visiting individuals and groups.

Recommended Courses to Satisfy the Nine Hours of Electives in the Humanities and/or Communications in the General Education Program.

FA	160	Appreciation of the Fine Arts. Three hours.
Art	161	Art Appreciation. Three hours.
Art	263	History of Architecture and Sculpture. Three hours.
Art	264	History of Painting. Three hours.
		Other courses in art with the permission of the Head of the Department.
Spch	110	Basic Speech. Three hours.
Spch	200	Oral Interpretation. Three hours.
DArt	100	Fundamentals of the Theatre. Three hours.
DArt	200	Introduction to Dramatic Literature. Three hours.

Jour	101	Introduction to Mass Communications. Three hours. Debate, Drama, and Radio activity courses with permission of the Chairman of the Division.
Eng	211	World Literature I. Three hours.
Eng	212	World Literature II. Three hours.
Eng	325	Religious Literature of the World. Three hours.
Eng	344	The Short Story and Novel. Three hours.
Eng	345	Poetry and Drama. Three hours.
Eng	346	Literature Prose. Three hours.
Eng	367	The Bible as Literature. Three hours.
Mus	161	Literature of Music. Two hours.
Mus	162	Literature of Music. Two hours.
Mus	361	History of Music I. Three hours.
Mus	362	History of Music II. Three hours.
Mus	111-212	Class instruction in voice or the various instruments.
Mus	117-418	Private instruction in voice or the various instruments. (Other courses in Music Literature and Theory with the approval of the Head of the Department.)
Phil	200	Introduction to Philosophy. Three hours. Other undergraduate courses in philosophy for which the student has completed the stated prerequisites.

Foreign Language—At least two semesters in one language must be completed in order for credit to be granted toward graduation.

Associate of Arts Degree

For the individual who desires a two-year general program with emphasis on the humanities.

FRESHMAN YEAR

First Semester			Second Semester		
Eng.	101—Composition I	3	Eng.	102—Composition II	3
PE	Activity course	1	PE	Activity course	1
Sci.	103—Intro. to Physical Sci.	3	Sci.	105—Intro. to Biological Sci.	3
Psy.	153—General Psychology	3	FA	160—Apprec. of the Fine Arts	3
	•Elective	3	Hlth	150—Personal Health	2
	Military (Men)			•Elective	3
	or			Military (Men)	
	Elective (Women)	2		or	2
				Elective (Women)	
<hr/>			<hr/>		
15			17		

SOPHOMORE YEAR

First Semester			Second Semester		
Eng.	202—Intro. to Literature	3	Eng.	Literature Elective	3
Phil.	200—Intro. to Philosophy	3	Spch	150—Basic Speech	3
Hist.	241—U.S. of Amer., 1492-1865	3	Hist.	242—U.S. of Amer. Since 1865	3
	*Elective	6	PS	241—Government of the U.S.	3
	Military (Men)		or		
	or	2	Ec.	201—Principles of Economics	3
	Elective (Women)			*Elective	
				Military (Men)	2
				or	
				Elective (Women)	
<hr/>			<hr/>		
17			17		
			Minimum for the Degree		
			66		

*Electives to be approved by the advisor and may be selected from two of the following fields—

English (Literature)
 Foreign Language
 History
 Music
 Art
 Drama

FINE ARTS

DESCRIPTION OF COURSES

Fine Arts 160. Appreciation of the Fine Arts. Three hours.

To make students aware of the relationship and the common core which permeates all of the arts; to help create the aesthetic emotional responses that contribute to the enjoyment of superior quality of art, drama, and music; and to orient the student to the fine arts through contact with some of the best works. Common expressions such as organization of form, rhythm, repetition, unity, harmony, and tonality are made meaningful through discussions, demonstrations, illustrations, slides, records, exhibitions, and performances.

Fine Arts 187-488G. Opera Workshop. One hour of credit per semester.

An introduction to the techniques of musical theater with emphasis placed on the integration of music and action-dramatic study of operatic roles emphasizing the development of posture, movement, and interpretation through lectures, exercises, and actual performance. Open to students upon consent of the instructors.

Fine Arts 560. Comparative Arts. Three hours.

A study of music, literature, and the visual arts in relation to their social, religious, and historical backgrounds. Emphasis is placed on aesthetic and philosophical interrelationships. Recommended as a general course for students from any field of study.

Art

Mr. Glover, Head of the Department

Mr. Adams	Mr. Harris	Mr. Strider
Miss Comer	Mr. Jones	Mr. Taylor
Mr. Deremo	Mr. Maortua	Mr. D. Young

Objectives:

1. To discover talent among the students, to give the type of instruction necessary to develop this talent, and to furnish the type of art that will function in daily living.
2. To provide sound and basic experiences for those students who intend to continue with some form of creative work.
3. To help in building judgment and discrimination for those whose future role may well be that of patron instead of practicing artist.
4. To prepare teachers in modern methods of art instruction and to give them a working knowledge of art processes so that they may be able to guide and stimulate creative expression in children and help them to appreciate the creative work of others.

Requirements:

<i>For an Area of Concentration:*</i>	Sem. Hrs.
Art 101, 103, 202, 203, 204, 213, 216, 221, 241, 263, 264, 291, 294, 303, 313, 316, 321, 394, 455, 465, 471, plus ten hours of elective credit in Studio Art -----	54
<i>For a Major:*</i>	
Art 101, 103, 202, 203, 204, 213, 216, 221, 241, 263 or 465, 264, 291, 294, 321, 471, plus four hours elective credit in Studio Art -----	35
<i>For a Minor:*</i>	
Art 101, 103, 213, 216, 221, 241, 263 or 264 or 465, 291, 294, 321, plus four hours elective credit in Studio Art -----	25
<i>For a Minor: (Elementary Education Majors)</i>	
Art 101, 103, 121, 213, 216, 221, 241, 263 or 264 or 465, and 291 -----	19

* Students wishing to have this certificate validated for service in the elementary grades must include Education 333, Fundamentals of Elementary Education, in their programs. This course is offered only during summer sessions.

SUGGESTED PROGRAMS

The following program has been devised to help students in selecting their courses and making their schedules. These suggested schedules need not be followed specifically from semester to semester, but close adherence to them will aid the student in meeting all requirements for graduation.

Provisional High School Certificate with an Area of Concentration in Art

FRESHMAN YEAR

First Semester			Second Semester		
Eng.	101—Composition I	3	Eng.	102—Composition II	3
P.E.	—Activity course	1	P.E.	—Activity course	1
Sci.	103—Intro. to Physical Sci.	3	Sci.	105—Intro. to Biological Sci.	3
Art	101—Drawing I	2	Art	103—Drawing II	2
Art	264—History of Painting	3	Art	263—Hist. of Arch. and Sculp.	3
Hlth.	150—Personal Health	2	Art	291—Color and Design	2
	Military (Men)		Ed.	100—Orientation in Education	1
	or			Military (Men)	
	Elective (Women)	2		or	2
				Elective (Women)	
<hr/>			<hr/>		
16			17		

SOPHOMORE YEAR

First Semester			Second Semester		
Eng.	202—Intro. to Literature	3		Social Science Elective	3
Psy.	153—General Psychology	3	Ed.	210—Human Gr. and Develop. I	3
	Science or Math. Elective	3	Art	203—Comp. and Draw. II	2
Art	202—Comp. and Draw. I	2	Art	213—Oil Painting I	2
Art	204—Figure Drawing	2	Art	216—Water Color I	2
	Military (Men)		Art	294—Sculpture I	2
	or			Military (Men)	
	Elective (Women)	2		or	2
				Elective (Women)	
<hr/>			<hr/>		
15			16		

JUNIOR YEAR

First Semester			Second Semester		
S.S.	300—Current World Problems	3	Ed.	300—Intro. to Student Teach.	1
	Science or Math. Elective	3		Social Sci. Elective	3
Art	221—School Art II	2		Humanities or Com. Elec.	3
Art	241—Crafts I	2	Art	303—Studio Problems	2
Art	313—Oil Painting	2	Art	321—Mat. & Meth. in Sec. Art	2
Art	316—Water Color II	2		Art Electives	6
Art	394—Sculpture II	2	<hr/>		
<hr/>			17		
16					

SENIOR YEAR

First Semester			Second Semester		
Hist.	400—American Foundations	3	Ed.	477—Professional Semester	15
	Humanities or Com. Elec.	3		(The Professional Semester may be taken either semester of the senior year)	
Art	455—Adv. Art Problems	2	<hr/>		
Art	465—Mod. and Contemp. Art	3	16		
Art	471—Seminar	1			
	Art Electives	4	<hr/>		
<hr/>			15		
16					

DESCRIPTION OF COURSES

Art 101. Drawing I. Two hours.

Introduction to drawing as a visual means of expression; to develop ability in observation and perception. Drawing still life figures and landscapes with various media such as pencil, charcoal, pen and ink, and brush and ink.

Art 103. Drawing II. Two hours.

Prerequisite: Art 101.

A continuation of Art 101.

Art 121. School Art I. Two hours.

A study of what art and art appreciation are about; an introduction to basic visual experiences with various two and three dimensional media. Emphasis is placed on creative expression. This course is an introduction to art and art teaching in the elementary grades.

Art 161. Art Appreciation. Three hours.

A general survey related to art history and contemporary art in every day use—emphasizing the practical aspects of design and appreciation to man's progress and development.

Art 202. Composition and Drawing I. Two hours.

Prerequisites: Art 101 and 102.

Advanced drawing experiences with various drawing media with special emphasis and concentration on composition.

Art 203. Composition and Drawing II. Two hours.

Prerequisite: Art 202.

A continuation of Art 202.

Art 204. Figure Drawing I. Two hours.

(Formerly Art 304)

Prerequisite: Art 101.

Study of the figure as a whole—proportion, essentials of artistic anatomy, the figure in action, rhythm; drawing from live model, and from memory; work in a variety of media.

Art 213. Oil Painting I. Two hours.

(Formerly 311)

Prerequisites: Art 101, 103, and 291.

An introduction to oil painting; materials and methods, arrangement of the palette; variety of different subjects.

Art 216. Water Color I. Two hours.

(Formerly Art 314)

Prerequisites: Art 101, 102, and 291.

Methods and materials; arrangement of the palette; composing and painting; still life, portrait, figure, and abstract water color painting.

Art 221. School Art II. Two hours.

The philosophy and methods of teaching art to children in the elementary grades; a study of materials, media and tools suitable for different grade and age levels.

Art 241. Crafts I. Two hours.

(Formerly Art 341)

Original designing and construction problems in metal, jewelry, clay, ceramics, textiles and enamels.

Art 263. History of Architecture and Sculpture. Three hours.

A brief historical survey of architecture and sculpture of all the ages and a study of influences that produced them. Comparative studies are made and critical consideration is given to selected works of the masters.

Art 264. History of Painting. Three hours.

Paintings are studied in their respective periods and schools and comparative studies of paintings of different periods are made. The effects of historical events, customs, and religious beliefs on the subject and methods of presentation are examined as well as the art structures, styles, characteristics and materials.

Art 291. Color and Design. Two hours.

A course in two and three dimensional design with special emphasis given to the fundamentals of visual organization including color, space, texture, line and value, utilizing the inventive application of art materials.

Art 294. Sculpture I. Two hours.

(Formerly Art 494)

Research and creative experiences in the various techniques, media, tools and devices of sculpture. Emphasis on work with stone, wood, metal, clay, and plaster.

Art 303. Studio Problems. Two hours.

Prerequisite: Twenty-six hours of Studio Art.

Studio course involving research and experimentation in areas not otherwise listed.

Art 304. Figure Drawing II. Two hours.

Prerequisite: Art 204.

Advanced study of the figure: drawing from the live model, and use of the figure as an integral part of composition.

Art 313. Oil Painting II. Two hours.

(Formerly Art 412)

Prerequisites: Art 101, 102, and 291.

Experiments and investigation in painting; painting from model, still life, and landscape with emphasis on creative interpretation and expression. Studio and field work.

Art 316. Water Color II. Two hours.

(Formerly Art 415)

Prerequisite: Art 215.

Water color is used as a medium for visual interpretations of various subjects. Studio and field work.

Art 321. Materials and Methods for Secondary Art. Two hours.

The course is to be taken prior to student teaching. The course presents the background and philosophy of current trends in secondary art education. Considerations are given to methods and materials as to their incentive-activity relationship. Special consideration is given to the art program in action, as to developing community interests, curricular planning, integrating art activities with other curricular offerings of the school.

Art 342. Crafts II. Two hours.

(Formerly Art 442)

Prerequisite: Art 241.

Advanced craft problems involving the finer techniques of firing, casting, glazing and textile production.

Art 381. Commercial Art I. Two hours.

Prerequisites: Art 101, 102 and 291.

Color and design in commercial art; elementary psychological principles of advertising design; commercial art processes and media; reproductive processes and laboratory problems in various commercial art techniques.

Art 394. Sculpture II. Two hours.

Prerequisite: Art 294.

Studio problems involving the manipulation of various sculpture media.

Art 413G. Oil Painting III. Two hours.

Prerequisites: Art 212 and 312.

Advanced oil painting. Experiences in oil painting leading toward individual achievements in styles and techniques.

Art 416G. Water Color III. Two hours.

Prerequisites: Art 215 and 315.

Advanced painting with water color aimed toward individual interpretations and experiences.

Art 421G. Art Education Workshop. Three hours.

Prerequisites: Art 121 and 221 or the equivalent.

Participation in art activities according to individual needs; research studies on the psychology of using various materials and activities at different age levels; and an introduction to new creative methods and media. Also the study of plans and furnishings for art rooms in schools of various types and levels.

Art 455G. Advanced Art Problems. Two hours.

Prerequisite: Art 303.

A continuation of Art 303.

Art 465. Modern and Contemporary Art. Three hours.

A survey of painting, architecture, and sculpture from the time of the roots of modern art—Classicism, Romanticism, and Realism—to and including present-day art. A comparative study is made of the influences of the art of previous times on present-day art.

Art 471. Seminar. One hour.

Prerequisite: Senior standing.

This course is designed to develop a further understanding of the underlying concepts in the fields of art and art teaching. Students participate through informal discussion and research.

Art 482G. Commercial Art II. Two hours.

Prerequisite: Art 381.

Advanced experiences in the practical applications of commercial art techniques.

Art 494G. Sculpture III. Two hours.

Prerequisites: Art 294 and 395.

Advanced problems in sculpture involving a combination of materials and their uniqueness as media.

Art 505. Figure Painting. Two hours.

Prerequisite: Art 304.

The student works on large canvases with oil paint. Both men and women models are used, and the poses are varied. The student is required to do a minimum of three paintings, one of which shall have more than one figure in the composition. Outside research is required. Individual criticism is given as needed.

Art 513. Painting. Two hours.

Prerequisites: Art 212 and 412.

This course is for art majors and area students who wish to do graduate work in art. Research into the techniques of various types and materials of painting such as: oil, casein, plastic, plaster, a secco, and buon fresco. Also, examination of the various styles of expression in paint.

Art 516. Water Color. Two hours.

Research into the techniques of various types of water color painting expression, creative expression, and experimentation with different water color painting techniques and materials.

Music

Mr. Fulbright, Head of the Department

Mr. Andrix	Mr. Bushouse	Mr. Jas. Martin
Mrs. Andrix	Mr. Deaton	Mr. Jos. Martin
Mr. Atwood	Mr. Duncan	Mr. Mueller
Mr. Beall	Mrs. Fulbright	Mr. K. Payne
Mrs. Beall	Mr. Hawkins	Mrs. Severy
Mr. Beane	Miss Hower	Mr. Stetler
Mr. Bigham	Mr. K. Huffman	Mrs. Stetler
Mr. Bragg	Mr. Keenan	Mrs. Venettozzi

Requirements:

Programs offered by the Department of Music include a major or minor for students who are pursuing the Bachelor of Arts curriculum, a Bachelor of Music Education degree, a Bachelor of Music degree, a Master of Music Education degree, and a Master of Music degree.

For a Major (Bachelor of Arts degree—Non-Teaching):

This program is designed for students who are planning for careers in music which do not require certification. It does not meet the requirements for teaching music in the public schools, nor does it prepare a student to enter graduate study in music without further preparation at the undergraduate level.

	Sem. Hrs.
Applied Music -----	12
Private lessons -----	7
Senior recital -----	1
Ensembles -----	4
Music Theory -----	12
Music Theory I, II, III, IV -----	6
Sight Singing and Dictation I, II, III, IV -----	6
Music History I and II -----	6
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For a Major (Bachelor of Arts degree—Teaching):

This program provides a basic background of preparation for *either instrumental or vocal music at the secondary level*. It does not qualify the student for the twelve-grade certificate and is not recommended for the student who plans to teach music exclusively.

Program for Instrumental Majors:	Sem. Hrs.
Applied Music	20
Private lessons	6
Senior recital	1
Class instruments and voice	5
Class piano	4
Ensembles	4
Music Theory	12
Music Theory I-IV	6
Sight Singing and Dictation I-IV	6
Music History and Literature	6
History of Music I and II	6
Music Education and Conducting	4
Instrumental Conducting	2
Instrumental Materials and Methods	2
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Program for Vocal Majors:

Applied Music	16
Class voice	1
Private voice	6
Class or private piano	4
Ensembles	4
Senior recital	1
Music Theory	12
Music Theory I-IV	6
Sight Singing and Dictation	6
Music History and Literature	10
Music Literature I and II	4
History of Music I and II	6
Music Education and Conducting	4
Choral Conducting	2
Vocal Materials and Methods	2
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For the Bachelor of Music Education:

This program is designed for students who are planning for careers as music teachers in the public schools. It includes the requirements for a twelve-grade music certificate.

1. Applied Music	23
Private lessons	6
Senior recital	1
Ensembles	7
Class piano	4
(Piano and organ majors may substitute private keyboard lessons.)	
Class voice and instruments	5
2. Music Theory	16
Music Theory I-IV	6
Sight Singing and Dictation I-IV	6
Form Analysis	2
Theory Elective	2
3. Music History and Literature	10
Music Literature I-II	4
History of Music I-II	6
4. Conducting	4
Choral Conducting	2
Instrumental Conducting	2
5. Music Education	7
Elementary Materials and Methods	4
Vocal or Instrumental Materials and Methods	2
Seminar	1
Minimum for Bachelor of Music Education	60

For the Bachelor of Music:

This program is designed for students who are planning for professional careers in music either as performers or as private studio teachers. It does not meet the requirements for certification to teach in the public schools.

1. Music Theory	16
Music Theory I-IV	6
Sight Singing and Dictation I-IV	6
Form Analysis I-II	4

2. Music History and Literature -----	10
Music Literature I-II -----	4
History of Music I-II -----	6
3. Ensembles -----	8
4. Conducting -----	4
Choral Conducting -----	2
Instrumental Conducting -----	2
5. Specialization -----	40
a. Voice -----	
Private Voice -----	16
Class Voice -----	1
Junior Recital -----	1
Senior Recital -----	2
Class and/or Private Piano -----	8
Languages (A minimum of six semester hours in each of two languages) ----	12
b. Piano -----	
Private Piano -----	21
Private Organ and/or Harpsichord ----	7
Junior Recital -----	1
Senior Recital -----	2
Counterpoint -----	2
Class Voice -----	1
Private Voice -----	3
Piano Literature -----	3
c. Organ or Harpsichord -----	
Private Organ or Harpsichord -----	24
Class or Private Piano -----	5
Junior Recital -----	1
Senior Recital -----	2
Class Voice -----	1
Private Voice -----	3
Church Music -----	2
Counterpoint -----	2
d. Strings -----	
Private Strings -----	24
Class Piano and/or Private Piano -----	8
Junior Recital -----	1
Senior Recital -----	2
Class Instruments -----	3
Class Woodwinds -----	1
Class Brasswinds -----	1

Class Percussion	1	
Class Voice		1
Private Voice		1
e. Wind Instruments		
Private Lessons in Major Instrument	16	
Class Instruments	4	
Class Brasswinds	1	
Class Woodwinds	1	
Class Strings	1	
Class Percussion	1	
Class Piano and/or Private Piano	6	
Class Voice	1	
Private Voice	1	
Arranging	4	
f. Theory-Composition		
Composition	12	
Arranging	4	
Counterpoint	2	
Recital of Original Composition	2	
Class and/or Private Keyboard	8	
Class Instruments	4	
Class Brasswinds	1	
Class Woodwinds	1	
Class Strings	1	
Class Percussion	1	
Class Voice	1	
Private Lessons in Major Instrument or Voice		7

For a Minor (Non-Teaching):

*May be used as the required minor by students majoring in elementary education.

	Sem.	Hrs.
Applied Music		8
Private Lessons	6	
Class or Private Piano	2	
Music Theory		6
Music Theory I and II	2	
Sight Singing and Dictation I and II	4	
Music Literature I and II		4
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*Students with a major in Elementary Education may elect to complete a teaching minor in music. To do this, they should take Music 325 (Materials and Methods for Elementary Grades) rather than Music 100 (Rudiments of Music) and Music 221 (Music for the Elementary Teacher).

For the Associate of Applied Arts Degree—Music Emphasis:

1. Music Theory	12
Music Theory I-IV	6
Sight Singing and Dictation	6
2. Music History and Literature	10
Music Literature I-II	4
History of Music I-II	6
3. Applied Music	12
Total in Music for the Degree	34

Graduate Degrees in Music

Two graduate degrees in music are available—the Master of Music Education and the Master of Music. The requirements for these degrees are as follows:

Master of Music Education:

In addition to meeting all of the requirements of a general nature prescribed by the University for the master's degree, the candidate must complete one of the following curricula—

Emphasis on Performance:

	Sem. Hrs.
Private applied, two semesters	4
Graduate recital	2
Studies in Musical Style (590)	3
Music electives (to be chosen with the approval of the program advisor). A minimum of four hours in music education and four hours in music history and literature must be included	13
Seminar in Music Education	2
Related field (to be chosen with the approval of the program advisor)	6
Total	30

Emphasis on Research:

Private applied, two semesters	2
Studies in Musical Style (590)	3
Music electives (to be chosen with the approval of the program advisor). A minimum of four hours in music education and four hours in music history and literature must be included	13

Seminar in Music Education-----	2
Related field (to be chosen with the approval of the program advisor) -----	6
Thesis -----	4
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Total -----	30

Master of Music:

In addition to meeting all of the requirements of a general nature prescribed by the University for the master's degree, the candidate must complete the following curriculum—

	Sem. Hrs.
Private applied, two semesters -----	8
Graduate recital -----	2
Studies in Musical Style (590)-----	3
Music electives (to be chosen with the approval of the program advisor). A minimum of six hours in music history and literature must be included. A maximum of six hours may be taken in a related field -----	17
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Total -----	30

SUGGESTED PROGRAMS

The following programs have been devised to help students in selecting their courses and making their schedules. These suggested schedules need not be followed specifically from semester to semester, but close adherence to them will aid the student in meeting all requirements.

Provisional High School Certificate with an Area in Music
(Bachelor of Music Education Degree)

FRESHMAN YEAR

First Semester			Second Semester		
Eng.	101—Composition I	3	Eng.	102—Composition II	3
Sci.	103—Intro. to Physical Sci.	3	Sci.	105—Intro. to Biological Sci.	3
Psy.	153—General Psychology	3	Hith.	150—Personal Health	2
Mus.	131—Music Theory I	1	Mus.	132—Music Theory II	1
Mus.	133—Sight Sing. and Dict. I	2	Mus.	134—Sight Sing. and Dict. II	2
Mus.	111P—Class Piano I	1	Mus.	112P—Class Piano II	1
Mus.	157—Private Applied	1	Mus.	211—Class Instruments or Voice	1
	Ensemble	1	Mus.	158—Private Applied	1
	Student Recital	0		Ensemble	1
	Military (Men)			Student Recital	0
	or			Military (Men)	
	Elective (Women)	2		or	2
				Elective (Women)	
<hr/>			<hr/>		
17			17		

SOPHOMORE YEAR

First Semester			Second Semester		
Eng.	202—Intro. to Literature	3	Ed.	210—Human Gr. and Devel. I	3
Ed.	100—Orientation in Education	1	P.E.	—Activity course	1
P.E.	—Activity course	1	Mus.	232—Music Theory IV	2
Mus.	231—Music Theory III	2	Mus.	234—Sight Sing. and Dict. IV	1
Mus.	233—Sight Sing. and Dict. III	1	Mus.	212P—Class Piano IV	1
Mus.	211P—Class Piano III	1	Mus.	162—Music Literature II	2
Mus.	161—Music Literature I	2	Mus.	211—Class Instruments or	
Mus.	211—Class Instruments or			Voice	2
	Voice	2	Mus.	258—Private Applied	1
Mus.	257—Private Applied	1		Ensemble	1
	Ensemble	1		Student Recital	0
	Student Recital	0		Military (Men)	
	Military (Men)	2		or	
	or	2		Elective (Women)	2
	Elective (Women)				
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JUNIOR YEAR

First Semester			Second Semester		
	Science or Math. Elective	3	Mus.	325—Mat. and Meth. for	
	Social Science Elective	3		El. Grades	4
Mus.	361—History of Music I	3	S.S.	300—Current World Problems	3
Mus.	471—Choral Conducting	2	Ed.	300—Intro. to Student Teach.	1
Mus.	465—Form Analysis	2	Mus.	472—Instrumental Conducting	2
Mus.	375—Vocal Mat. and Methods		Mus.	462—History of Music II	3
or		2	Mus.	—Theory Elective	2
Mus.	376—Instru. Mat. and Methods	1	Mus.	358—Private Applied	1
Mus.	357—Private Applied	1		Ensemble	1
	Student Recital	0		Student Recital	0
	Ensemble	1			
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SENIOR YEAR

First Semester			Second Semester		
	Humanities Elective	3	Ed.	477—Professional Semester	15
	Social Science Elective	3		(The Professional Semester	
Hist.	400—American Foundations	3		may be taken either	
	Science or Math. Elective	3		semester of the senior year.)	
Mus.	450—Senior Recital	1			
Mus.	480—Seminar	1			
	Ensemble	1			
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15			15		

Bachelor of Music (Non-Teaching—Piano Specialization)

(Asterisks indicate points at which substitutions should be made for other specializations)

FRESHMAN YEAR

First Semester			Second Semester		
Eng.	101—Composition I	3	Eng.	102—Composition II	3
Sci.	103—Intro. to Physical Science	3	Sci.	105—Intro. to Biological Sci.	3
Hlth.	150—Personal Health	2	PE	—Activity course	1
Mus.	131—Music Theory I	1	Mus.	132—Music Theory II	1
Mus.	133—Sight Sing. and Dict. I	2	Mus.	134—Sight Sing. and Dict. II	2
Mus.	*157P—Private Piano	3	Mus.	*158P—Private Piano	3
Mus.	*187P—Piano Ensemble	1	Mus.	*188P—Piano Ensemble	1
	Military (Men)		Mus.	*151—Private Organ or	
	or	2		Harpsichord	1
	Elective (Women)			Military (Men)	
				or	2
				Elective (Women)	
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17			17		

SOPHOMORE YEAR

First Semester		Second Semester	
Psy. 153—General Psychology	3	Eng. 202—Intro. to Literature	3
Mus. 161—Literature of Music I	2	Mus. 162—Literature of Music II	2
Mus. 231—Music Theory III	2	Mus. 232—Music Theory IV	2
Mus. 233—Sight Sing. and Dict. III	1	Mus. 234—Sight Sing. and Dict. IV	1
Mus. *257P—Private Piano	3	Mus. *258P—Private Piano	3
Mus. *111W—Class Voice	1	Mus. *157W—Private Voice	1
Mus. *152P—Private Organ or Harpsichord	1	Mus. *251—Private Organ or Harpsichord	1
Mus. *287P—Piano Ensemble	1	Mus. *288P—Piano Ensemble	1
Student Recital	0	Student Recital	0
P.E. —Activity course	1	Military (Men)	2
Military (Men)	2	or	
or		Elective (Women)	
Elective (Women)			
	17		16

JUNIOR YEAR

First Semester		Second Semester	
Mus. 361—Music History I	3	Mus. 362—Music History II	3
Mus. 465—Form Analysis I	2	Mus. 466—Form Analysis II	2
Mus. 471—Choral Conducting	2	Mus. 472—Instrumental Conducting	2
Mus. *331—Counterpoint	2	Mus. 350—Junior Recital	1
Mus. *357P—Private Piano	3	Mus. *358P—Private Piano	2
Mus. *252—Private Organ or Harpsichord	1	Mus. *351—Private Organ or Harpsichord	1
Mus. *387P—Piano Ensemble	1	Mus. *388P—Piano Ensemble	1
Student Recital	0	Mus. *158W—Private Voice	1
		Student Recital	0
	17		16

SENIOR YEAR

First Semester		Second Semester	
S.S. 300—Current World Problems	3	Hist. 400—American Foundations	3
Science or Math. Elective	3	Science or Math. Elective	3
Mus. *257W—Private Voice	1	Humanities Elective	3
Mus. *381—Literature of the Piano	3	Mus. 460—Senior Recital	2
Mus. *457P—Private Piano	3	Mus. *458P—Private Piano	1
Mus. *487P—Piano Ensemble	1	Mus. *488P—Piano Ensemble	1
Mus. *352—Private Organ or Harpsichord	1	Mus. *451—Private Organ or Harpsichord	1
Student Recital	0	Student Recital	0
	15		14

Associate of Applied Arts—Music Emphasis

FRESHMAN YEAR

First Semester		Second Semester	
Eng. 101—Composition I	3	Eng. 102—Composition II	3
FA 160—Apprec. of the Fine Arts	3	PE Activity course	1
PE Activity course	1	Psy. 153—General Psychology	3
Mus. 131—Music Theory I	1	Mus. 132—Music Theory I	1
Mus. 133—Sight Sing. and Dict. I	2	Mus. 134—Sight Sing. and Dict. II	2
Mus. 157—Private Applied (Major)	2	Mus. 158—Private Applied (Major)	2
Mus. 151—Private Applied (Secondary)	1	Mus. 152—Private Applied (Secondary)	1
or		or	
Mus. 111—Class Applied	2	Mus. 112—Class Applied	2
Mus. 161—Literature of Music I	2	Mus. 162—Literature of Music II	2
Military (Men)	2	Military (Men)	2
or		or	
Elective (Women)		Elective (Women)	
	17		17

SOPHOMORE YEAR

First Semester			Second Semester		
Eng.	202—Intro. to Literature	3	Phil.	200—Intro. to Philosophy	3
	Social Science Elective	3		Social Science Elective	3
Mus.	231—Music Theory III	2	Mus.	232—Music Theory IV	2
Mus.	233—Sight Sing. and Dict. III	1	Mus.	234—Sight Sing. and Dict. IV	1
Mus.	257—Private Applied (Major)	2	Mus.	258—Private Applied (Major)	2
Mus.	251—Private Applied		Mus.	252—Private Applied	
or	(Secondary)		or	(Secondary)	
Mus.	211—Class Applied	1	Mus.	212—Class Applied	1
Mus.	361—History of Music I	3	Mus.	362—History of Music II	3
	Military (Men)			Military (Men)	
or		2	or		2
	Elective (Women)			Elective (Women)	
		17			17

APPLIED MUSIC

Applied music is interpreted as those courses and activities which involve vocal or instrumental performance, individually or in groups, including private and class lessons and large and small ensembles. The major applied instrument is interpreted as that instrument (or voice) upon which the student expects to develop his maximum performance skill.

A music student (i.e., a student who is pursuing a Bachelor of Music, a Bachelor of Music Education, or Bachelor of Arts with a Major in Music curriculum) is expected to register for private lessons on his major applied instrument (or voice) every semester except during the semesters in which he presents his senior recital and in which he registers for the professional semester.

Ensemble Participation

Music students are required to participate in ensembles during each semester of residence with the exception of the Professional Semester. Assignment to ensembles will be made by the Head of the Music Department with the advice of the Music Faculty. Assignments will be governed by the needs of the student and the requirements of the ensembles concerned. Students may elect more than one ensemble during a semester with the permission of the department head and the directors of the ensembles involved. Eight hours of credit in ensembles may be applied toward fulfilling degree requirements. At least two semesters of participation in vocal ensembles are required of all music students.

Recital Attendance

Student recitals are scheduled on alternate Friday mornings. Students are selected to perform on these programs by their private instructors. Attendance at these recitals is required of all music stu-

dents. In addition to the Student Recital, music students are expected to attend other recitals and concerts on the campus regularly. Failure to attend musical events on a regular and consistent basis will be considered to be a matter which requires counsel from the student's private teacher and the Head of the Music Department.

Junior and Senior Recitals

Music curricula include requirements for the presentation of senior recitals. Some require junior recitals. In those cases where such recitals are required, the student is expected to meet with his private instructor with the same degree of regularity as would be expected if he were registered for private lessons. At least four weeks before the date of his recital, he will play all or part of his proposed program for a faculty jury. The faculty jury will include his private instructor and two other faculty members chosen by the student and his instructor. With the approval of the faculty jury, the student will be allowed to present his recital.

Applied Music Examinations

At the close of each semester, applied music examinations will be heard by a faculty jury. The faculty jury will hear examinations of students on their applied majors. Secondary and class applied examinations will be heard by individual instructors.

Piano Proficiency

A student who expects to be certified to teach music upon graduation and whose major applied instrument is not piano must successfully complete four semesters of private or class piano or demonstrate piano proficiency by examination. The material for the examination will consist of the following:

1. Facility in scales, arpeggios, and cadences.
2. Performance of compositions of approximately third grade difficulty from the works of Clementi, Bach, Mozart, Bartok, etc.
3. Sight reading of easy piano music and instrumental and vocal accompaniments.
4. Playing of simple melodies by ear and improvising appropriate harmonizations.

Fees for Applied Music

Per Semester

*One private lesson per week -----	\$20.00
*Two private lessons per week -----	35.00
Practice room and organ fee -----	5.00
Instrument rental -----	3.00
Junior recital -----	20.00
Senior recital (one hour credit) -----	20.00
Senior recital (two hour credit) -----	35.00
Graduate recital -----	35.00

*Under certain conditions, beginning students in applied music may be assigned to an undergraduate assistant for instruction. In this event, the lesson fee is one-half that charged for lessons with members of the music faculty.

Class and Private Applied Music Courses

Applied music courses may be taken through either class or private instruction. Private instruction may be taken by students who are not following a music curriculum, in which case the requirements are different from those which are established for music students. Music students may take private lessons on instruments other than their applied major. These will be referred to as secondary instruments. Course numbers will be assigned from the following sequences of numbers. In order to progress from one level to the next a minimum grade of C must have been earned.

111-212. Class Applied Music. One hour.

117-518. Private Applied Music (Non-music students). One hour.

151-552. Private Applied Music (Secondary instruments or voice).

One hour.

157-558. Private Applied Music (Major instruments or voice).

One to four hours.

The instrument or family of instruments being studied will be indicated by a postscript to the course number. The letters to be used and their meanings are:

A—Woodwinds
B—Flute
C—Oboe
D—Bassoon
E—Clarinet
F—Saxophone
H—Brasswinds
I—Horn
J—Trumpet
K—Euphonium
L—Trombone
M—Tuba

N—Percussion
O—Organ
P—Piano
Q—Harpsichord
R—Strings
S—Violin
T—Viola
U—Cello
V—Double Bass
W—Voice
X—To be specified

Course numbers will be assigned in sequence. Eligibility to register for the first course in the graduate sequence (500 level) will be determined by an audition.

The amount of credit in private applied music (major) is variable. At the undergraduate level, a student receives one half-hour lesson for each hour of credit. He is expected to practice at least one hour each day in preparation for a half-hour lesson; two hours per day are expected in preparation for two half-hour lessons per week. At the graduate level, the student is expected to practice at least one hour per day for each hour of credit being earned. The number of lessons will not ordinarily exceed two half-hours per week.

Ensembles

Ensembles may be taken with or without credit. Credit in ensembles does not count toward the General Education requirement in Humanities. A maximum of eight hours of credit in ensembles may be applied toward fulfilling the requirements of certain music curricula. (Refer to the curricula requirements listed previously.)

Orchestra. Open to all string students and to selected wind and percussion players as needed. One hour of credit per semester.

Women's Chorus. Open to all university women who are interested in singing. Two hours of rehearsal per week. One hour of credit per semester.

Men's Glee Club. Open to all university men who are interested in singing. Two hours of rehearsal per week. One hour of credit per semester.

***Marching Band.** Open to all students who play wind or percussion instruments. Required during the fall semester for each music student whose major performing instrument is a brasswind, woodwind, or percussion. One hour of credit per semester.

***Concert Band.** Open to all students. Rehearsals begin at the close of the Marching Band season in the fall and continue through the remainder of the year. One hour of credit per semester.

***Symphony Band.** Students are selected by audition. Rehearsals begin at the close of the Marching Band season in the fall and continue through the remainder of the year. One hour of credit per semester.

Stage Band. Members are selected by audition. One hour of credit per semester.

*In order to receive credit for Band during the Fall Semester, a student must be a member of the Marching Band and either the Concert Band or the Symphony Band.

Music 187H-488H. Brass Choir. One hour.

Students are selected by audition as the literature performed requires musical proficiency and independence. Those qualified are given the opportunity to perform representative works of early brass literature and contemporary compositions. A number of public concerts are presented each year.

Music 187I-488I. Horn Ensemble. One hour.

The horn ensemble is a laboratory for learning techniques of good performance and ensemble through the performance of literature for the horn in duets, trios, quartets, and larger groups.

Music 187N-488N. Percussion Ensemble. One hour.

Open to all students who play percussion instruments with the consent of the instructor. Required of students taking private percussion instruction.

Music 187W-488W. Concert Choir. One hour.

A mixed group of approximately forty singers studying and performing great choral music of all periods and styles, frequently performing with orchestra. Recently it has presented such works as Bach's *Passion According to St. John* and Honegger's *King David*. Admission by audition during registration week of the fall semester. Three hours rehearsal per week.

Music 187W-488W. Chamber Singers. One hour.

A highly select group of approximately sixteen singers. Repertoire consists of works especially suited for a small ensemble, concentrating on Renaissance music and music of the twentieth century. Admission by audition during the registration week of the fall semester. Three hours of rehearsal per week.

Music 187W-488W. Co-Eds. One hour.

An ensemble of women's voices which prepares music suitable for a variety of occasions. This group performs frequently for school assembly programs, at banquets of various organizations, and in recitals.

Music 187A-488A. Woodwind Ensemble. One hour.

Open to selected groups by consent of the instructors. Various standard woodwind ensembles and special groups will be formed as needed.

Music 187B-488B. Flute Ensemble. One hour.

Open to all students with the consent of the instructor. The ensemble will prepare and perform duets, trios, quartets, and larger

compositions for combinations of flute, piccolo, and alto flute. The ensemble will also study excerpts from orchestral literature.

Music 187P. Piano. Sight Reading I. One hour.

A beginning course in piano ensemble designed to develop competence in sight reading. Materials used include standard works from the four-hand piano literature as well as arrangements of symphonic literature. Required for piano majors.

Music 188P. Piano. Sight Reading II. One hour.

Prerequisite: Music 187P.

A continuation of Music 187P. Further development of sight reading competence. Required for piano majors.

Music 287P. Keyboard Harmony. One hour.

Prerequisite: Music 188P.

A course in applied harmony designed to develop mastery of various types of cadence formulas, sequences, modulations, etc. Required for piano majors.

Music 288P. Piano Ensemble. One hour.

Prerequisite: Music 287P.

The preparation and performance of piano ensemble literature. Required for piano major.

Music 387P. Accompanying. One hour.

Prerequisite: Music 288P.

Preparation and performance of accompaniments for individuals and groups. Minimum of one hour of studio accompanying per week. Required for piano majors.

Music 388P. Accompanying. One hour.

Prerequisite: Music 387P.

A continuation of Music 387P. Required for piano majors.

Music 487-488P. Recital Accompanying. One hour each.

The preparation and public performance of accompaniments for junior and/or senior recitals of at least two hours playing time. Open to piano students upon consent of the piano faculty.

DESCRIPTION OF COURSES

Music 100. Rudiments of Music. Two hours.

A course in the fundamentals of music notation and the basic elements of music theory. Some elementary voice and keyboard experi-

ence. Prerequisite for Music 221. Students pursuing a minor in music should take Music 131 and 132 instead of this course. Offered each semester and summer session. Three periods per week.

Music 131. Music Theory I. One hour.

Prerequisite: Music 100 or equivalent proficiency. An entrance test will be given to determine eligibility to enroll in this course.

The fundamentals of written theory and analysis; intervals, scales, triads, root progression, principles of inversion, modulation, and basic techniques of composition. Two periods per week.

Music 132. Music Theory II. One hour.

Prerequisite: Music 131 with a minimum grade of C.

A continuation of Music 131.

Music 133. Sight Singing and Dictation I. Two hours.

Prerequisite: Music 100 or equivalent proficiency. An entrance test will be given to determine eligibility to enroll in this course.

The development of basic musical skills in sight singing and aural recognition of musical elements. Designed to train students to sing intervals, scales, diatonic melodies, and harmonic components with tonal and rhythmic accuracy and to transcribe these elements. Three periods per week.

Music 134. Sight Singing and Dictation II. Two hours.

Prerequisite: Music 133 with a minimum grade of C.

A continuation of Music 133.

Music 161. Literature of Music I. Two hours.

A general course designed to promote intelligent listening and to provide a basic understanding of representative literature of various periods and styles. Fall semester.

Music 162. Literature of Music II. Two hours.

A continuation of Music 161. Prerequisite: Music 161.

Music 221. Music for the Elementary Teacher. Two hours.

Prerequisite: Music 100.

A course in methods of teaching music in rural and urban schools, with emphasis on methods and materials for elementary grades. Not open to music majors. Students pursuing a minor in music should take Music 325 instead of this course. Offered each semester and summer session.

Music 231. Music Theory III. Two hours.

Prerequisite: Music 132 with a minimum grade of C.

The written and analytical aspects of music theory, with an

emphasis upon chromatic harmonies, modulation, and other nineteenth century formal harmonic practices. Writing skills including four-part harmonization, contrapuntal techniques, and motivic development. Analysis of homophonic and contrapuntal textures. Two periods per week.

Music 232. Music Theory IV. Two hours.

Prerequisite: Music 231 with a minimum grade of C.

A continuation of Music 231.

Music 233. Sight Singing and Dictation III. One hour.

Prerequisite: Music 134 with a minimum grade of C.

Advanced sight singing and aural skills with an emphasis on chromatic materials.

Music 234. Sight Singing and Dictation IV. One hour.

Prerequisite: Music 233 with a minimum grade of C.

A continuation of Music 233.

Music 263. Elementary Composition I. Two hours.

Prerequisite: Music 232 or consent of the instructor.

The study and practice of basic melodic, harmonic, rhythmic and formal principles of composition, primarily in contemporary idioms.

Music 264. Elementary Composition II. Two hours.

Prerequisite: Music 263.

A continuation of Music 263. Compositions in the smaller forms and for small ensembles.

Music 325. Materials and Methods for Elementary Grades. Four hours.

Prerequisite: Music 232 and Class Piano IV.

A course in materials and methods for primary and intermediate grades. Emphasis is given to fundamentals of elementary education and to the relationships which exist between music and the other subjects taught at this level. Observations of both music and non-music classes in the various grades are required. Offered each semester.

Music 329. Church Music. Two hours.

Primarily for the organist and the minister of music. A brief survey of the place of music in the church from its beginning; study of the techniques of hymn and anthem playing and/or directing; use of the organ in the service; planning of worship services. Required of organ majors.

Music 331. Counterpoint. Two hours.

Prerequisite: Music 132.

Polyphonic writing in sixteenth and eighteenth century styles, with more emphasis on the eighteenth century; canon, two- and three-part inventions and elementary fugal writing. Some study of the use of counterpoint in the twentieth century.

Music 335. Field Experience. Three hours.

Two full days weekly of teaching under supervision in public schools in nearby communities.

Music 336. Field Experience. Three hours.

A continuation of Music 335.

Music 360. Junior Recital. One hour.

A solo public recital of approximately 30 minutes duration. Upon the recommendation of the student's private instructor, a longer recital may be presented.

Music 361. History of Music I. Three hours.

A survey of the history of music in Western Europe from its ancient Greek beginnings through the early eighteenth century. Fall semester and alternate summer terms.

Music 362. History of Music II. Three hours.

A continuation of Music 361. The history of music in Western Europe, Russia, and America from the late eighteenth century through the early twentieth century. Spring semester and alternate summer terms.

Music 363. Intermediate Composition I. Two hours.

Prerequisite: Music 264.

Study and examination of students' original creative work in private study. One hour weekly is devoted to a Composition Seminar where contemporary and general compositional-historical questions are discussed in colloquium. Guest authorities and faculty contribute to these discussions.

Music 364. Intermediate Composition II. Two hours.

Prerequisite: Music 363.

A continuation of Music 363.

Music 375. Vocal Materials and Methods. Two hours.

Prerequisites: Music 325.

A course in the teaching of general music in the junior and senior high schools and in the guidance and direction of vocal groups at these

levels. Special attention is given to the subject of the adolescent voice and to correlation and integration of music with other subjects. Offered in the fall semester only.

Music 376. Instrumental Materials and Methods. Two hours.

Prerequisite: Credit for applied music in at least two of the following fields: strings, brasswinds, woodwinds, percussion.

Instructional procedures and materials used in instrumental teaching from the elementary grades through high school. Discussion of the role of instrumental music, beginning instruction, rehearsal procedures, performing organizations, and administration of the program. Examination and evaluation of teaching materials and repertoire for all phases of the instrumental program.

Music 377. Instrumental Repair and Maintenance. One hour.

Demonstration and practice in the repair and maintenance of string, brasswind, percussion, and woodwind instruments. Two hours per week.

Music 378. Piano Pedagogy. Two hours.

A survey and evaluation of methods and materials used by the piano teacher; organization and administration of a piano studio; class piano techniques; learning principles applicable to the teaching of piano.

Music 381G. Literature of the Piano. Three hours.

A survey of music written for the piano and its predecessors concentrating on the music of the major composers from the English virginalists through composers of the present.

Music 431G. Arranging. Two hours.

Prerequisite: Music 232 or the equivalent.

A study of the practical ranges of voices and instruments; transposition; scoring of selected materials and/or original compositions for voices and instruments.

Music 432G. Advanced Arranging. Two hours.

Prerequisite: Music 431.

A continuation of Music 431. Scoring for large vocal and instrumental ensembles.

Music 433. Arranging for the Stage Band I. Two hours.

Prerequisite: Music 232.

Techniques of arranging for stage bands and small combinations selected from the stage band. Emphasis upon variety of styles. Orig-

inal compositions for this type of ensemble. Performances of student works.

Music 434. Arranging for the Stage Band II. Two hours.

Prerequisite: Music 433.

A continuation of Music 433.

Music 450. Senior Recital. One hour.

A solo public recital of approximately thirty minutes duration, the literature to be selected with the approval of the private instructor. This recital will usually be scheduled so that two students will share the program, but this is not a necessity. Approval to present the recital must be given by a faculty jury.

Music 460. Senior Recital. Two hours.

A solo public recital of approximately one hour duration, the literature to be selected with the approval of the private instructor. One ensemble selection may be allowed provided the student's own instrument or voice has a significant part. Approval to present the recital must be given by a faculty jury.

Music 463G. Advanced Composition I. Two hours.

Prerequisite: Music 364 or the equivalent.

Study and examination of students' original creative work in private conferences. Emphasis upon performance of students' works.

Music 464G. Advanced Composition II. Two hours.

Prerequisite: Music 463.

A continuation of Music 463.

Music 465. Form Analysis I. Two hours.

Prerequisite: Music 132.

A study of the elements of musical design through aural and score analysis with emphasis upon the simple basic forms: two- and three-part song forms, dance forms of the classical suite, theme and variations, short vocal forms, and the simple contrapuntal forms, such as canon and invention.

Music 466. Form Analysis II. Two hours.

Prerequisite: Music 465.

A continuation of Music 465 with emphasis upon larger forms: rondo, sonata, fugue, and large choral and orchestral forms.

Music 470. Composition Recital. Two hours.

Preparation and performance of a recital of original works with a total performance time of approximately one hour. Approval to present the recital must be given by a faculty jury.

Music 471. Choral Conducting. Two hours.

Baton technique, rehearsal procedures, choral diction, and style and interpretation of choral works. Offered in the fall semester and alternate summers.

Music 472. Instrumental Conducting. Two hours.

Emphasis on baton and hand technique through basic patterns and gestures to express musical interpretation. Rehearsal techniques and conducting problems are discussed.

Music 479G. Marching Band Workshop. Two hours.

An intensive course designed for the study of the techniques involved in preparing marching bands for performance on the high school and college levels.

Music 480. Seminar. One hour.

Discussion of special problems related to the teaching of music; readings in literature of the field; topics for individual research and presentation.

Music 491G. School Band Literature. Two hours.

Examination and criticism of available music for both training and concert use. Development of criteria for choosing materials for groups at various levels of attainment.

Music 516. Teaching of Strings. Two hours.

A survey of teaching techniques and materials at all levels with emphasis upon applications to the school orchestra program. Observation and practical experience in teaching and coaching.

Music 525. Psychology of Music. Two hours.

A study of human behavior in its relation to music, including such psychological processes as perceiving, learning, remembering, and feeling. Attention is given to the measurement of musical ability and the understanding of its development.

Music 531. Arranging for the Marching Band. Two hours.

Study of current trends in half-time show styles; creative experiments in arranging in various styles; attention to individual projects.

Music 533. Advanced Counterpoint. Two hours.

Analytical study of selected polyphonic works and styles of the 16th and 18th centuries and writing in such forms as canon, motet, madrigal, invention, and fugue.

Music 553. Teaching of Woodwinds. Two hours.

Detailed study of methods of teaching flute, oboe, the clarinets, the saxophones, and bassoon; materials to be used in instruction; attention to specific accoustical and technical problems of tone production. Observation and practical experience in teaching and coaching.

Music 556. Teaching of Brasses. Two hours.

Comparative study of the various techniques and recent trends in the teaching of brass instruments; intensive consideration of the accoustical and technical problems involved in performance. Observation and practical experience in teaching and coaching.

Music 560. Graduate Recital. Two hours.

A solo public recital of approximately one hour duration, the literature to be selected with the approval of the private instructor. Approval to present the recital must be given by a faculty jury.

Music 561. Teaching of General Music. Two hours.

A pedagogy course relating to the various school music subjects usually referred to as general music. Emphasis is placed upon music for the non-performing student in the elementary and secondary grades. Attention is given to recent trends in the presentation of music literature, theory, creativity, the use of informal instruments, etc.

Music 563. Creative Writing I. Two hours.

Prerequisite: Music 464 or the equivalent.

Private coaching and advising in the development of the students' individual style of composition.

Music 564. Creative Writing II. Two hours.

Prerequisite: Music 563.

Continuation of Music 563. Public performance of students' works is expected.

Music 570. Research Problems in Music Education. One to three hours.

Investigation of a problem in the field of music education. The problem selected must be such that the collection and analysis of original data are basic to the solution. The problem to be studied must be approved by the instructor. Conferences with the instructor will be scheduled as necessary. A written report of the problem and the results of the study must be submitted.

Music 571. Advanced Conducting. Three hours.

Advanced instruction and experience in the preparation, rehearsal, and performance of ensemble music.

Music 580. Seminar in Music Education. One hour.

A study of the literature pertinent to the philosophy and problems of teaching music in the schools.

Music 581. Seminar in Music Education. One hour.

A continuation of Music 581.

Music 590. Studies in Musical Style. Three hours.

Detailed analysis of the music of individual composers, musical styles, and periods.

Music 591. Symphonic Literature. Three hours.

Orchestral literature from the Mannheim school to the present. Emphasis upon formal structure, harmonic idioms, and orchestration. Analysis of representative works.

Music 592. Choral Literature. Two hours.

Vocal ensemble and choral literature from 1400 to the present; stylistic traits, types of compositions, sources, and performance practices.

Music 593. Contemporary Music. Three hours.

A study of the compositions and theories of those composers who have contributed significantly to the music of the twentieth century. The period from about 1910 to the present will be included.

Music 594. Chamber Music. Two hours.

A study of the literature for small ensembles from the eighteenth century through the present. Emphasis upon structural analysis, stylistic characteristics, and innovations.

Music 595. Song Literature. Two hours.

A survey of music for solo voice, beginning with seventeenth century literature and continuing through the present day.

Languages and Literature

Miss Adkins	Mr. Hacke	Mrs. Mourino
Mr. Arends	Mr. Hamilton	Mrs. Netherton
Mr. Barnes	Mr. Hampton	Mrs. Payne
Mrs. Barnes	Miss Helphinstine	Mr. Pelfrey
Mrs. Campbell	Mrs. Johnson	Mr. Rogers
Mrs. Chaney	Mr. Kelsay	Mrs. Rogers
Miss Clarke	Mr. Mace	Mr. Smith
Mr. Davis	Mr. Mayhew	Mr. Still
Mrs. Day	Mrs. E. Moore	Mr. Thomas
Mr. de Caria	Mr. Morrow	Miss Troxel
Mr. Edling		Mr. Vincze

Objectives:

The Division of Languages and Literature is concerned with the study of seven languages—English, Latin, French, Spanish, German, Russian, Italian and with the literatures composed in these languages. Its three chief objectives are:

1. To teach languages as basic tools, the mastery of which will serve as—
 - a. Means toward the study of literatures and cultures.
 - b. Keys to universal communications and the exchange of ideas.
2. To teach literature as an important transmitter of human values.
3. To give the student imaginative, vicarious, and realistic experiences in human problems.

ENGLISH

Objectives:

1. To make a significant contribution to the general education of all students by—
 - a. Helping them improve their written and spoken English so that they may use the language effectively.
 - b. Acquainting them with literature so that they may better understand themselves and other people and may have resources within themselves for enjoying and enriching their own lives and those of their families and communities.
 - c. Reaching and developing some of their creative abilities.

2. To develop teachers of English who will be able to present this subject effectively.
3. To provide an adequate foundation for the study of English at the graduate level.

Requirements: (In addition to the requirements listed, a minimum of one year of a foreign language **is required** of students completing an area or major in English. Two years of a foreign language are recommended.)

For an Area of Concentration: (Composition and Literature Emphasis)

	Sem.	Hrs.
English 101, 102, 202, 315 or 393, 331, 332, 341, 342, 390, 405, and 435 -----		33
To be selected from English 433, 436, 441, 442, or 443		3
To be selected from English 460, 462, 464, or 466 ----		3
To be selected from English 370, 372, 373, 452, 453, 472, or 473 -----		3
Speech 100 or 110 and 200 -----		6
Dramatic Art 300 -----		3
Journalism 201 -----		3
		<hr/> 54

For an Area of Concentration: (Literature and Linguistics Emphasis)

English 101, 102, 202, 315, 331 or 341, 332, 342, 393 or 401, 405, 416, 417, 435, and 495 -----	39
To be selected from the 400-level literature courses ---	3
Speech 100 or 110 and 200 -----	6
Dramatic Art 300 -----	3
Journalism -----	3
	<hr/> 54*

For a Major: (Literature Emphasis)

English 101, 102, 331, 332, 341, 342, and 435 -----	21
English 390, 315 or 393, and 405 -----	9
To be selected from English 370, 372, 373, 472, or 473	3
To be selected from English 433, 436, 441, 442, 443, 460, 462, 464, or 466 -----	3
	<hr/> 36*

For a Major: (Linguistics Emphasis)

English 101, 102, 315, 331, 332, 342, 393, 401 or 416, 405, 417, 435 and 495 -----	36*
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*English 400 is a recommended additional course for students who plan to teach.

For a Major: (Non-teaching)

English 101 and 102 -----	6
English Literature—three hours to be from 400-level courses -----	9
American Literature—three hours to be from 400-level courses -----	9
World Literature—from 300- or 400-level courses ----	6
English 390 or 490 -----	3
Linguistics -----	3
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	36

For a Minor:

English 101, 102, 331, 332, 342, 390, and 405 -----	21
Selected from English 370, 372, 373, 472, or 473 -----	3
Selected from English 433, 436, 441, 442, 443, 460, 462, 464, or 466 -----	3
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For the Master of Arts degree:

Students majoring in English for the Master of Arts degree may emphasize either English Literature, American Literature, Linguistics, or a combination of these.

***Requirements for Unconditional Admission to Graduate Study in English:**

1. General admission to graduate study.
2. Completion of an undergraduate major or minor in English.
3. A minimum standing of 3.0 on all undergraduate English courses above the freshman level.

*See the section on Graduate Study for more detailed information. Consult the Index for the exact page reference.

Requirements for the Degree:

1. Completion of a minimum of 18 semester hours of approved course work in English. At least 12 hours of this work must be earned in courses open only to graduate students.

2. Completion of an approved thesis.
3. Completion of a minimum of 30 semester hours of graduate work. (This includes the credit allowance for the thesis.)
4. A reading knowledge of a modern foreign language.
5. Successful completion of a final oral examination including defense of the thesis. Written examinations may also be required at the discretion of the student's committee and the Dean of Graduate Programs.

SUGGESTED PROGRAMS

The following programs have been devised to help students in selecting their courses and making their schedules. These suggested schedules need not be followed specifically from semester to semester, but close adherence to them will aid the student in meeting all requirements for graduation.

Provisional High School Certificate with an Area of Concentration in English (Composition and Literature Emphasis)

(Asterisks indicate substitutions for Linguistics Emphasis)

FRESHMAN YEAR

First Semester			Second Semester		
Eng.	101—Composition I	3	Eng.	102—Composition II	3
P.E.	—Activity course	1	P.E.	—Activity course	1
Sci.	103—Intro. to Physical Sci.	3	Sci.	105—Intro. to Biological Sci.	3
	Social Science Elective	3	Psy.	153—General Psychology	3
	Foreign Language	3		Foreign Language	3
Hlth.	150—Personal Health	2	Ed.	100—Orientation in Education	1
	Military (Men)			Military (Men)	
	or	2		or	2
	Elective (Women)			Elective (Women)	
<hr/>			<hr/>		
17			16		

SOPHOMORE YEAR

First Semester			Second Semester		
Eng.	202—Intro. to Literature	3	Eng.	331—English Literature to 1750	3
Spch.	100—Voice and Articulation	3	*Eng.	341—Amer. Writers Before 1850	3
or			Spch.	200—Oral Interpretation	3
Spch.	110—Basic Speech	3	Jour.	201—News Writing and	
Ed.	210—Human Gr. and Develop. I	3		Reporting	3
	Foreign Language	3		Foreign Language	3
	Social Science Elective	3		Military (Men)	
	Military (Men)			or	2
	or	2		Elective (Women)	
	Elective (Women)		<hr/>		
<hr/>			17		
17			*Eng. 315—Structure of English		

JUNIOR YEAR

First Semester			Second Semester		
S.S.	300—Current World Problems	3	Ed.	300—Intro. to Student Teach.	1
Eng.	332—English Lit. since 1750	3	*Eng.	390—Advanced Writing	3
Eng.	342—Amer. Writers Since 1850	3	Eng.	462—19th Cent. Amer. Fiction	3
Eng.	393—History of the Language	3	*Eng.	370—Greek and Roman Lit.	3
	Science or Math. Elective	3	Phil.	200—Intro. to Philosophy	3
				Science or Math. Elective	3
		15			16
			*Eng.	415—Structure of Literature	
			Eng.	495—Linguistics: Composition	

SENIOR YEAR

First Semester			Second Semester		
Hist.	400—American Foundations	3	Ed.	477—Professional Semester	15
Dart.	300—Elements of Play Prod.	3		(The Professional Semester	
*Eng.	433—English Fiction	3		may be taken either semester	
Eng.	405—Linguistics: Grammar	3		of the senior year)	
Eng.	435—Shakespeare	3			
		15			15

Provisional High School Certificate with a Major in English (Literature Emphasis)

(The variations for the Linguistics Emphasis are indicated by asterisks)

FRESHMAN YEAR

First Semester			Second Semester		
Eng.	101—Composition I	3	Eng.	102—Composition II	3
P.E.	—Activity course	1	P.E.	—Activity course	1
Sci.	103—Intro. to Physical Sci.	3	Sci.	105—Intro. to Biological Sci.	3
	Social Science Elective	3		Social Science Elective	3
	Foreign Language	3		Foreign Language	3
Hlth.	150—Personal Health	2	Ed.	100—Orientation in Education	1
	Military (Men)			Military (Men)	
	or			or	
	Elective (Women)	2		Elective (Women)	2
		17			16

SOPHOMORE YEAR

First Semester			Second Semester		
Eng.	331—English Lit. to 1750	3	Eng.	332—English Lit. Since 1750	3
Psy.	153—General Psychology	3	Ed.	210—Human Gr. and Develop.	3
	Science or Math. Elective	3		Science or Math. Elective	3
	Foreign Language	3		Foreign Language	3
	Elective	3	*Eng.	341—Amer. Writers Before 1850	3
	Military (Men)	2		Military (Men)	2
	or			or	
	Elective (Women)	2		Elective (Women)	2
		17			17
			*Eng.	315—Structure of English	

JUNIOR YEAR

First Semester			Second Semester		
*Eng.	342—Amer. Writers Since 1850	3	S.S.	300—Current World Problems	3
Eng.	393—History of the Language	3	Ed.	300—Intro. to Student Teaching	1
	Elective	9	*Eng.	390—Advanced Writing	3
			Eng.	405—Linguistics: Grammar	3
				World Literature	3
				Electives	3
		15			16
*Eng.	417—Structure of Literature		*Eng.	495—Linguistics: Composition	

SENIOR YEAR

First Semester			Second Semester		
Hist.	400—American Foundations	3	Ed.	477—Professional Semester	15
*Eng.	433—English Fiction			(The Professional Semester	
	or	3		may be taken either semester	
*Eng.	462—19th Century Amer. Fiction			of the senior year)	
Eng.	435—Shakespeare	3			
	Elective	6			
		<hr/>			<hr/>
		15			15
*Eng.	401—Linguistics: Semantics				
	or				
Eng.	416—Reading and Linguistics				

DESCRIPTION OF COURSES

English 101. Composition I. Three hours.

A course for the development of collegiate writing and reading; basic problems of sentence and paragraph structure; the generation and development of ideas; dictionary and work study; frequent papers.

English 101s. Composition I. Three hours.

A special course in writing for students who are deficient in English usage and writing skills. The class meets five days a week allowing more time for special writing laboratory work. The course is designed to help the student develop his writing and reading to collegiate level. The course includes basic problems of sentence and paragraph structure; the generation and development of ideas; dictionary and word study; and frequent papers.

English 102. Composition II. Three hours.

A continuation of English 101 with emphasis on critical thinking expressed in writing; analysis of essays, poetry, and fiction; frequent papers, including a short research paper.

English 103. Composition III. Three hours.

For entering freshmen of high ability, this course will cover composition equal to that done in English 101 and 102. The writing will be based on a language approach, on a background of literature, and on intense study in textual analysis of poetry, short stories, exposition, and argumentation.

English 202. Introduction to Literature. Three hours.

An introduction to literature as a significant form of human activity. The course includes extensive reading in poetry, fiction, and drama, accompanied with thoughtful oral and written responses. General education requirement.

English 211. World Literature to 1650. Three hours.

An analysis of selected masterpieces of occidental literature from the early period up to 1650. Poetry, drama, fiction and prose will be studied in the light of historical contexts and with a view to contemporary significance.

English 212. World Literature Since 1650. Three hours.

An analysis of selected masterpieces of occidental literature from 1650 to the present. Poetry, drama, fiction, and essays will be studied in the light of historical contexts and with a view to contemporary significance.

English 315. Structure of English. Three hours.

An introductory course in the phonetics, phonemic, morphemic, and syntactic structures of the English language from the perspective of descriptive and structural linguistics.

English 325. Religious Literature of the World. Three hours.

An introduction to the literature of the major religions of the world: Hinduism, Jainism, Buddhism, Confucianism, Taoism, Shinto, Zoroastrianism, Judaism, Christianity, Islam and Sikhism.

English 331. English Literature to 1750. Three hours.

A survey of English literature from its beginning to the end of the neoclassical period in the eighteenth century. The approach is chronological, the intention being to acquaint the student with the development of English literature both generically and historically. Background for study of particular periods, authors, movements, and genres will be provided by this course.

English 332. English Literature Since 1750. Three hours.

A survey of English literature from 1750 through the present. The approach is chronological, the intention being to acquaint the student with the development of English literature both generically and historically. The course will provide background for study of particular periods, authors, movements, and genres.

English 341. American Writers Before 1850. Three hours.

A survey of puritan and colonial backgrounds, the essayists of the early national period, early poets and novelists. The emphasis is upon major figures, including Bradford, Franklin, Poe, Hawthorne, Emerson, and Thoreau.

English 342. American Writers Since 1850. Three hours.

A survey of the literature from Whitman to the present. Attention is given to major figures and representative writers of local color, realism, and naturalism.

English 344. The Short Story and the Novel. Three hours.

The course traces the development of the short story and novel as literary genres from their beginnings in Old Testament times to their prominent position in the works of writers today.

English 345. Poetry and Drama. Three hours.

A study of the origins, conventions, elements of the various types of dramatic presentation: tragedy, comedy, the absurd, mime, etc. Plays will be considered from the historical range of dramatic literature. Also a study of poetry and its elements, such as image, fixed forms, etc., and their relation to meaning. Poems selected from the range of human history.

English 346. Literary Prose. Three hours.

Reading and analysis of essays and biographies concerned with such general topics as education, language, man in society, literature, the arts, and common basic problems. Selections will be based on examples of the essay and the biography as genres, and on potential thematic relations. Critical papers will be written.

English 365. Literature of the South. Three hours.

Readings in the greatest and most representative Southern authors, Poe, Simms, the local colorists, Lanier, Wolfe, Faulkner, others. Emphasis on Kentucky writing.

English 367. The Bible as Literature. Three hours.

Judeo-Christian thought and culture as found in biblical narrative, biography, drama, poetry, and sermons; scriptural history; influence of the Bible on Western Civilization.

English 370. Greek and Roman Literature. Three hours.

A study of the major literary and philosophical figures and movements of Greek and Roman antiquity, as well as the classical backgrounds of early Christianity. The course evaluates historical and philosophical factors influencing and determining the writers and their times, with special attention to the role of religion. It will indicate bibliographical materials, together with the study of critical reviews and books.

English 372. Oriental Literature. Three hours.

A study of the major literary figures and genres of the literatures of China, Japan, India, Arabia, and Iran. The course evaluates historical, social, and philosophical factors influencing and determining the writers and their times. It will indicate bibliographical materials, together with the study of critical review and books.

English 373. Nineteenth Century European Literature. Three hours.

A study of the major literary figures and movements of the nineteenth century and of their importance for the present day. The course evaluates political, historical, economic and philosophical factors influencing and determining the writers and their times. It will indicate bibliographical materials, together with the study of critical reviews and books.

English 390. Advanced Writing. Three hours.

The course is devoted to the study of description, narration, exposition, and poetry as rhetorical forms, with extensive practice in writing. Extensive use of conferences will supplement class analysis of themes and text selections.

English 393G. History of the Language. Three hours.

The shaping forces of our language from an early Germanic dialect to its present form; streams of other languages that have enriched the English tongue; grammar, rules, and conventions and their relation to language usage; semantics.

English 394. Language of Mathematics and Science. Two hours.

Presents language patterning as unique to carrying the principles in physical science, biological science, and mathematics. Affixation helpful in determining meanings carried, the language carrying the problems to be solved in word problems, the psychological principles involved in employing language for visualization, and the pace and tone patterns for mathematics and science will be given practical emphases.

English 400G. The Teaching of English. Three hours.

The philosophy and rationale of content and methods of teaching English in the American high school today in terms of the tri-component curriculum of language, literature, and composition. The teacher and his profession, especially in relation to organization and publications in English, will also be covered. Directed observations, mini-teaching, closed-circuit television, kinescopes, video tapes, and tape recordings will be used to illustrate methods of teaching English.

English 401G. Linguistics: Semantics. Three hours.

Presents the problems, inherent in working with meaning as related to referential, distributional, and notional ways of encountering experience. The principles involved in meaning generally are discussed and analyzed, but major emphases are also directed toward teacher problems in the area of meaning, as sequential to structure and function in language.

English 405G. Linguistics: Grammar. Three hours.

Presents the principles of structural, transformational, generative and tagmemic grammar. The course work employs more practical terms in the sense of teaching teachers the form and content the grammatical structures must carry in teaching college, secondary, and elementary school level students.

English 416G. Reading and Linguistics. Three hours.

Presents the basic elements essential to good reading. The course work centers on phonology and morphology, but the major emphasis is phonological. From the reading patterns, the student works in two directions, concurrently, language and literature. Composition, spelling, and literature evolve through the reading. The course is designed for supervisors, other administrators, and for teachers from grades one to twelve.

English 417G. Structure of Literature. Three hours.

Presents the elements of literature as determined through linguistic patterns and as determining these patterns. The basic drives, essential human problems, characterization, for forms of literature, the kinds of literature, and measurements of emotive intensities common to the literary form are given practical and theoretical force.

English 418G. Linguistics: Business and Jurimetrics. Three hours.
(Offered by extension)

Reveals the problems involved in carrying the principles in business and law through language. This course concerns itself with analyzing the language patterns unique to business and law, giving much practical consideration to each specific area.

English 433G. English Fiction. Three hours.

The development of the English novel from its beginnings to the twentieth century. Principle figures: Fielding, Richardson, Snollett, Austin, Dickens, Thackeray, Eliot, Hardy, and Conrad.

English 435G. Shakespeare. Three hours.

The study of selected sonnets, comedies, tragedies, and histories will include their presentation against the background of biographical, historical, and philosophical influences. The main emphasis will be derived from the text of each play studied.

English 436G. The English Renaissance. Three hours.

A study of the influences leading to the Renaissance in English, a study of the English Renaissance, and a concentration on the poetry and drama from 1500-1600—excluding Shakespeare. Skelton, Spenser, Sidney, Wyatt, Marlowe, and Greene will receive major emphasis.

English 441. Neoclassical Writers. Three hours.

(Formerly English 331)

A study of representative selections from English prose and poetry of the Neoclassical Period. Major writers to be considered include Dryden, Swift, Pope, Johnson, and Goldsmith.

English 442. Romantic Writers. Three hours.

(Formerly English 332)

An orientation to English romanticism designed to provide representative readings and a critical appreciation of the best and most characteristic works during the English Romantic Movement.

English 443. Victorian Writers. Three hours.

(Formerly English 333)

Designed to examine the range and achievement of prose writing from Carlyle to Pater and poetry from Tennyson to Swinburne.

English 444. Folk Literature. Three hours.

The origins and primitive forms of literature, such as the proverb, tale, epic, ballad, and folk drama. Attention is given to the use of folklore in teaching.

English 452G. Early Dramatic Literature. Three hours.

A detailed study of representative plays from the great periods of dramatic literature from the Greeks to mid-nineteenth century. Readings of plays and collateral readings in critical sources.

English 453G. Modern Drama. Three hours.

A detailed study of the drama from the growth of realism to the present day. Specific emphasis on various styles of the late nineteenth and twentieth centuries. Readings of representative plays and collateral readings in critical sources.

English 460G. Early American Authors. Three hours.

The writings and backgrounds of Bradford, Taylor, Edwards, Franklin, Paine, and Jefferson. Limited consideration of lesser figures in the development of American letters.

English 462G. Nineteenth Century American Fiction. Three hours.

The development of American fiction from Brown to Crane. Emphasis on Irving, Cooper, Poe, Twain, James and Crane. Limited consideration of lesser figures in the development of the novel and short story.

English 464G. Twentieth Century American Fiction. Three hours.

The development of American fiction from 1900-1960. Emphasis on Dreiser, Anderson, Dos Passos, Fitzgerald, Wolfe, Hemingway, Faulkner, and Steinbeck. Limited consideration of lesser figures. Consideration of both themes and form, but more of the former.

English 466G. American Poetry. Three hours.

The development of American poetry from the beginnings through the twentieth century to 1960.

English 471G. European Literature 1100-1600. Three hours.

A study of the heroic epics, the courtly poets, Dante, Petrarch, Boccaccio, Machiavelli, Erasmus, Montaigne, and Rabelais.

English 472G. European Literature, 1600-1800. Three hours.

A study of selected works, in English translation, of Cervantes, Racine, Moliere, Pascal, Voltaire, Diderot, Goethe, and Schiller.

English 473G. Twentieth Century European Literature. Three hours.

A study of selected works in English translation of such representative writers as Mann, Proust, Chekhov, and Kafka, with special emphasis upon the existentialist writers.

English 490. Fiction and Poetry Writing. Three hours.

Sustained writing; evaluation of manuscripts; study of successful authors; marketing of manuscripts; writing of fiction, nonfiction, poetry and plays.

English 495G. Linguistics: Composition. Three hours.

Gives much practical emphasis to writing situations essential for teachers, for their students, and for persons going on for graduate

work. Language patterns, inherent symbols and their meanings, and tagmemic considerations are given the major attention. Formal, informal, and creative pieces of oral and written composition are essential parts of the course work.

English 503. Bibliography. Three hours.

An introduction to graduate research in American and English literature with particular emphasis on bibliographical materials and methods. Required of all candidates for Master of Arts with a major in English.

English 513. Literary Criticism. Three hours.

A historical survey of literary criticism in Europe (from the classical period to the twentieth century). Readings in major works of criticism and the development of critical theory through study of these works. Covers classicism, Renaissance humanism, romanticism, neoclassicism, realism, naturalism, and impressionism. (Begins with Aristotle, ends with Croce.)

English 519. American Renaissance. Four hours.

An intensive study of the transcendental movement and its influence of American literature as seen primarily in the works of Emerson, Thoreau, Hawthorne, and Melville.

English 520. Major American Poets. Four hours.

Intensive study of Longfellow, Whitman, Dickinson, Frost, Stevens and Eliot.

English 524. American Writers in Perspective. Four hours.

This course is designed to provide the student the opportunity to discover relationships throughout the development of American literature that may not be apparent upon studying a single phase of its history. Thematic development, growth of a genre, and regional qualities are some of the topics studied in the course.

English 528. American Literary Criticism. Three hours.

Concentration on American thought in criticism in the last forty years or so. Study of selected groups of critics, such as the New Humanists, the psychological and myth critics, liberal and radical critics, New Critics, or neo-Aristotlelians.

English 529. Directed Studies in American Literature. One or two hours.

Individual study under the direction of the staff.

English 541. Chaucer's Era and Middle English. Four hours.

A study of the works of Chaucer and other significant English literature from the twelfth through the fifteenth centuries.

English 543. English Renaissance. Four hours.

Elements of the Renaissance and Reformation, together with the poetry, prose, and drama of the period from 1500-1660—with Milton—will be studied and evaluated.

English 545. Jacobean and Restoration Drama. Four hours.

Contributions of the leading authors.

English 547. Neoclassical Period. Four hours.

An intensive study of the poetry and prose of major British writers from 1660-1780 with emphasis on Dryden, Pope, Swift, and Johnson. Minor writers will be studied in reading and papers.

English 548. English Romantic Period. Four hours.

An intensive study of the poetry of Wordsworth, Coleridge, Shelley, Keats, and Byron. Evaluation of political, historical, economic, and philosophical factors influencing and determining romantic principles. Includes study of bibliographical materials together with the study of critical reviews and books.

English 550. Victorian Period. Four hours.

An intensive study of the works of Tennyson, Arnold, Browning, Newman, Huxley, and Ruskin.

English 552. Twentieth Century English Literature. Four hours.

A consideration of the works, influence, and literary and historical contexts of Eliot, Auden, Spencer, Joyce, Conrad, Woolf, Huxley, and Forster.

English 553. Directed Studies in English Literature. One or two hours.

Individual study under the direction of the staff.

English 580. English Syntax. Four hours.

Stresses syntactical studies primarily in the English language, and specifically in the use of American English structures. Centers on the relationships of elements of words in statements. The significance of morphology and syntax will be stressed, and the point at which syntax, as a part of grammar and the structures of rhetoric can be unified will be discussed.

English 583. Philosophy of the Language. Three hours.

Concentrates on the problems of knowledge insofar as the language itself is concerned. Ordinary language and its usage will be considered, as well as the language that is notional. Considers elements which are metalinguistical, microlinguistical, or prelinguistical.

English 585. Psycholinguistics. Three hours.

Gives both theoretical and practical applications to all psychological aspects of language, all considered with respect to the person's "i.p.f." and to his cognitive and emotive import and purport. Problems in aphasia considered. Also, emotive, intellectual, and sensorial responses to experience and their measurements in terms of Plutchik's emotive states, and reasons for linguistic utterances will be considered as to their effects on language competence.

English 591. Dialectology. Four hours.

Details all the regional varieties of a language, the isoglosses, the dialect boundaries, the phonological differences, and the lexical variations. Considerations of dialectology in light of different levels of usage: substandard, standard, literary, and prestige. Include discussion of certain elements of "usage."

English 592. Linguistics and Poetic Language. Three hours.

Probes relationships of linguistics as structures and universals, as well as poetic uses, and usage of human language. The limits of poetic language as sound and as graphical expressions are handled in theory and in practical exercises. These exercises will be applied to poetic passages found in prose and to the various forms expressed and communicated in a wide range of poetry.

English 593. Phonology. Three hours.

Pursues the idea that description of a language begins with phonology or with the study of the definition of each phoneme and combinations of phonemes. Study will include use of materials which demonstrate the nature of phonetic forms as pronounceable. Concerned with appreciation of the point at which the phonology of a language has been established. Experience in working with the end point of phonology and with the starting point of telling what meanings are attached to a few phonetic forms.

English 597. Sociolinguistics. Three hours.

Offers theory and practice in the critical area of problems involved in individual language patterning and institutional language

patterning; all in terms of authority, family, church, professional goals, and other social activities.

English 598. Directed Studies in Linguistics. One or two hours.

Individual study under the direction of the staff.

English 599. Monograph or Thesis. Two or four hours.

FRENCH

Objectives:

1. To help students to acquire a basic knowledge of the structure of modern and classical French.
2. To broaden horizons for students by introducing them to a field of thought and action other than their own.
3. To survey French civilization as a complex development concerning France's history, geography, fine arts, ideas, political and social institutions, with principal orientation to France as now constituted, and by comparative treatment of analogous ideas and events in other countries of French expression.
4. To help majors and minors in French to attain to comfortable, relatively proficient self-expression in the speaking, reading, and writing of French in many types of realistic situations, including friendly and commercial correspondence; and to suggest and provide various opportunities for improving their comprehension of the spoken language, with some preparation for problems involving regional variants from standard French pronunciation.
5. To introduce in literature courses outstanding ideas and important works by French authors and non-French authors and poets of distinction.
6. To help prospective teachers of French by familiarizing them with techniques of teaching a foreign language—the use of maps, records, tape recordings, and practical application of the language.

Requirements:

For a Major in French:

	Sem.	Hrs.
French 101, 102, 201, 202, 203, 405, and 435	-----	21
To be selected with the approval of the department		9

30

For a Minor in French:

French 101, 102, 201, 202, 203 and 405 -----	18
To be selected with the approval of the department--	3
	<hr/>
	21

Note: Students who have high school credit in French will be given a placement test to determine whether they should take French 101, 102, 201, or 202.

DESCRIPTION OF COURSES

French 101. Beginning French. Three hours.

Drill in hearing and speaking; reading of simple texts; basic points of grammar.

French 102. Beginning French. Three hours.

Review of grammar; stress on active use of the language; reading, speaking, writing and understanding.

French 202. Conversation and Composition. Three hours.

Intensive training in correct writing and fluent speech. Subject matter taken from literary selections which present various aspects of contemporary French civilization.

French 203. Introduction to France. Three hours.

This course aims to familiarize the student with the elements (historical, political, cultural, etc.) which have contributed to making France what it is today. Reading of selected literary works (Rabelais to Sartre) to illustrate the significant movements of French culture and ideas.

French 321. Literature of the Middle Ages and Renaissance. Three hours.

An introduction through modern French versions to typical epics, romances, and bourgeois poetry of the early medieval period, followed by a study in the original text of major selections from the work of Villon, Marot, Rabelais, the Pleiade, and Montaigne.

French 322. Seventeenth-Century Literature. Three hours.

Study of French Classicism through representative plays of Corneille, Racine, and Moliere; extracts from Descartes, Boileau, Pascal, La Fontaine, and others.

French 323. Eighteenth-Century Literature. Three hours.

Prerequisite: French 202 or its equivalent.

Development of rationalistic and democratic tendencies as expressed in the writings of the period leading up to the Revolution; selected material from Buffon, Montesquieu, the Encyclopedists, Voltaire, Rousseau, and others.

French 324. Nineteenth-Century Literature. Three hours.

Prerequisite: French 202 or its equivalent.

Examination of representative works illustrating the development of literature from Romanticism to Realism and Symbolism; Hugo, Flaubert, Baudelaire, Rimbaud, and others.

French 405. Linguistics and Language Teaching. Three hours.

Prerequisite: Minor in French.

A seminar accepting majors or minors in various foreign languages and requiring projects appropriate to the speciality of each.

French 435. Twentieth-Century Literature. Three hours.

Prerequisite: French 202 or its equivalent.

Selected works of recent writers: France, Romain, Gide, Proust, Giraudou, Sartre, and others.

French 441G. The French Novel. Three hours.

Intensive study of a few novels considered as representative of the genre. This course considers such questions as convention and innovation, illusion and reality, imagery, style, structure, and meaning. Various solutions to these problems are examined in modern French masterpieces by such writers as Balzac, Flaubert, Stendhal, Zola, Gide, Proust, Camus, Radiguet, Mauriac and Malraux.

French 442G. The French Drama. Three hours.

Intensive study and analysis of selected plays viewed as representative of the genre. This course considers the various dramatic modes such as the comic, the tragic, the heroic, and the "realistic"; dramatic tension, rhythm, and structure; the dramatization of philosophic and social ideas; lyric and sensuous elements in the theater. Various solutions to these problems are examined in the works of writers such as Corneille, Racine, Moliere, Marivaux, Beaumarchais, Hugo, Musset, Claudel Sartre, Anouilh, and Giraudoux.

French 443G. French Lyric Poetry. Three hours.

Intensive study and analysis of masterpieces of French lyric poetry. The course gives specific attention to problems involving tone

and structure; denotation and connotation; image, symbol, and allegory; and allusion, irony, ambiguity, and paradox. The poems are chosen from the work of such writers as Villon, Ronsard, Sponde, La Fontaine; Chenier and the Romantics; Baudelaire and the Symbolists; and Valery, Claudel, Peguy, and Apollinaire.

French 450G. Reading French I. Three hours.

Prerequisite: Graduate status.

Intensive practice in reading of the French language, with rapid and correct idiomatic translation as the aim. Includes basic grammar study and readings from selected French literature. Designed specifically for students who need a reading proficiency in graduate work.

French 451G. Reading French II. Three hours.

Prerequisite: French 451G or permission of the instructor.

Further study of grammar and drill in reading, with emphasis on reading in the student's own subject area.

SPANISH

Objectives:

1. To develop the ability to understand, to speak, and to write the Spanish language.
2. To give the students a knowledge of the culture of the Spanish-speaking world.
3. To develop a better understanding of our Spanish-speaking neighbors through their literature, their sense of beauty, their sense of tragedy, and their sense of humor.
4. To prepare teachers of Spanish for the elementary and secondary schools, by acquainting them with the best methods of teaching foreign languages.

Requirements:

<i>For a Major:</i>	Sem. Hrs.
Spanish 101, 102, 201, 202, 301, 302, 405 -----	21
Selected from other 300 and 400 level courses -----	9
	<hr/> 30

For a Minor:

Spanish 101, 102, 201, 202, 301, 302 -----	18
Selected from advanced courses -----	3
	<hr/> 21

Note 1: Students who have had high school credit should consult with the instructor in order to determine in which course they should be placed. Students native to the language may take any course on the 300 and 400 levels.

Note 2: It is strongly recommended that Spanish be started in the freshman year and that the courses be taken without interruption.

DESCRIPTION OF COURSES

Spanish 101. Elementary Spanish. Three hours.

A course for students who have never had any Spanish at all. Practice in hearing and speaking through patterns. No formal, traditional grammar.

Spanish 102. Elementary Spanish. Three hours.

A course for those who have had a year in high school and those who have successfully completed 101. It is a continuation of 101: practice in hearing and speaking patterns; essentials in grammar.

Spanish 201. Reading and Composition. Three hours.

Prerequisite: Spanish 102 or permission of the instructor.

This is a reading course. Selections from outstanding modern authors will be used to develop understanding and interpretation of the written language. It serves as preparation for the advanced literature courses.

Spanish 202. Advanced Conversation. Three hours.

Prerequisite: Spanish 102 or permission of the instructor.

Intensive practice in conversation. Films, magazines, and books are employed to practice different kinds of language use. The course covers material about Spanish and Spanish-American culture.

Spanish 220. Grammar and Composition. Three hours.

Prerequisite: Spanish 202 or permission of the instructor.

Study and analysis of speaking and writing styles. This study is done through texts from well-known authors representative of different periods. Emphasis is on written composition.

Spanish 301. Spanish Literature I. Three hours.

Prerequisite: Spanish 202 or permission of the instructor.

A survey of the most important periods and trends in Spanish literature from its beginning to the nineteenth century.

Spanish 302. Spanish Literature II. Three hours.

Prerequisite: Spanish 202 or permission of the instructor.

A survey of the most significant Spanish literature of the nineteenth and twentieth centuries.

Spanish 311. Spanish and Spanish-American Poetry. Three hours.

An extensive study of this genre: Indigenas, Juglares, Cantares de Gesta, Romances, la Mistica, Poesia del Siglo de Oro, Romanticismo, Post-Romanticismo, el Modernismo, el Siglo XX.

Spanish 312. The Spanish Theatre. Three hours.

Study of the evolution of the theater from Juan del Encina to Garcia Lorca.

Spanish 313. Fiction in Spanish. Three hours.

An extensive study of the novel and short story from the thirteenth century: la Novela de Caballeria, la picaresca, la Morisca, la Pastoral, el Costumbrismo, la Generacion del 98, el Siglo XX.

Spanish 401. Advanced Grammar. Three hours.

Prerequisite: Spanish 301 or 302.

This course is required for those who plan to teach Spanish. It is a thorough study of the structure of the language.

Spanish 405. Linguistics and Language Teaching. Three hours.

Prerequisite: Minor in Spanish.

A seminar accepting majors or minors in various foreign languages and requiring projects appropriate to the speciality of each.

Spanish 423. Don Quijote de la Mancha. Three hours.

A thorough study of this masterpiece of Spanish literature.

Spanish 432. Contemporary Literature. Three hours.

A general study of the most significant and characteristic tendencies of Hispanic literature. Having to consider so many countries, this course will deal only with those authors whose value is outstanding. The novel, short story, drama, essay, and poetry of the twentieth century.

GERMAN

Objectives:

1. To help prepare for responsible world citizenship through the use of the language as a means of exchanging ideas and information, whether through personal contacts, telecommunica-

tions, correspondence, or the printed page. The preparation involves progressive acquisition of skills in listening, speaking, reading, and writing.

2. To create an awareness and appreciation of the overall German cultural and scientific heritage, as well as to guide the student in the interpretative reading of representative literary masterpieces.
3. To enable the prospective teacher to approach with confidence and competence the current methodology which involves not only the aforementioned skills and insights, but also the operation of language laboratories and an understanding of the part that applied linguistics has played in the development of modern instructional materials.

Requirements:

For a Minor: Twenty-one hours of credit in German. The selection of these courses must be approved in advance by the department.

Note: Students whose high school records show two units of German may elect German 102 or German 201. Students with three units of high school credit in the language may elect either German 201 or 202.

DESCRIPTION OF COURSES

German 101. Beginning German. Three hours.

The most frequent structural patterns and a limited active vocabulary of contemporary German are learned in class and overlearned in the laboratory until they become habitual responses. A larger passive vocabulary, along with cultural and historical information, is given in the reader. Tape recordings are used extensively.

German 102. Beginning German. Three hours.

A continuation of German 101.

German 201. Intermediate German. Three hours.

Prerequisite: German 102 or the equivalent.

The audio-lingual approach is continued, grammar is reviewed, elementary structural analysis is introduced, and several of the best examples of German literature are studied.

German 202. Intermediate German. Three hours.

Prerequisite: German 201.

A continuation of German 201.

German 203. Technical German. Three hours.

Prerequisite: Six hours of college German or two units of high school German or permission of the instructor.

Techniques of reading for accurate information in non-imaginative writing on the social and physical sciences.

German 301. Grammar and Conversation. Three hours.

Further development of skills involved in the use of the language. Extensive experience in the language laboratory is required.

German 302. Composition and Conversation. Three hours.

Prerequisite: German 201 and 202 or the equivalent.

A continuation of German 301 with greater emphasis on stylistics. With the completion of this course the essentially linguistic training of the student is completed and he is prepared to undertake more specialized programs of study whether technical literary or commercial.

German 303. Advanced Technical German. Three hours.

German 202 or 203 or permission of the instructor.

Extensive reading in the contributions of the German-speaking world in the fields of the fine arts, business, and social and exact sciences.

German 311. Literature to 1880. Three hours.

Prerequisite: German 202 or the equivalent.

A general survey of German literature from old High German to the deaths of Hebbell and Ludwig.

German 312. Literature Since 1880. Three hours.

Prerequisite: German 202 or the equivalent.

A general survey of German literature from Hauptmann to contemporary writers.

German 405. Linguistics and Language Teaching. Three hours.

Prerequisite: Minor in German.

A seminar accepting majors or minors in various foreign languages and requiring projects appropriate to the specialty of each.

RUSSIAN

Objectives:

1. To develop the ability to speak, read, write and understand Russian.
2. To give the students an introduction to the culture of the Russian-speaking world.
3. To develop a better understanding of Russian society and history through a study of Russian literature.

DESCRIPTION OF COURSES

Russian 101. Beginning Russian. Three hours. (Three class periods and a minimum of two laboratory periods per week.)

An introduction to Russian grammar beginning with the learning of the Cyrillic alphabet and progressing through a brief introduction to conjugation of verb forms and declension of adjectives and nouns.

Russian 102. Beginning Russian. Three hours. (Three class periods and a minimum of one laboratory period per week.)

A continuation of Russian 101. A complete analysis of the grammar with emphasis on writing and speaking.

Russian 201. Intermediate Russian. Three hours. (Three class periods and a minimum of one laboratory period per week.)

An introduction to Russian literature through a study of the works of Lermontov, Pushkin, Chekhov, and others. Excerpts from other works including prose, poetry and plays are introduced. Emphasis on reading and translation.

Russian 202. Intermediate Russian. Three hours.

Prerequisite: Russian 102 or two units of Russian in high school.

In addition to the continuing analysis of grammar and exercises in composition, Russian 202 introduces the student to Russian literature through excerpts from the works of Lermontov and Pushkin.

LATIN

Objectives:

1. To prepare teachers of Latin for the primary and secondary schools.
2. To enable students in the arts and pre-professional courses to handle technical terms more easily.
3. To broaden the students' background by a study of classical civilization.

Requirements:

<i>For a Minor:</i>	Sem. Hrs.
Latin 101, 102, 201, and 202-----	12
Electives from Latin 301, 302, 401 or 402-----	9
	<hr/>
Minimum for a Minor-----	21

DESCRIPTION OF COURSES**Latin 101. Elementary Latin I. Three hours.**

This course is designed for the mature student beginning his study of Latin in the University. There will be drill in the basic elements of Latin grammar, word study, and reading of simple Latin selections. These selections are all taken from ancient authors, somewhat simplified at first, but no "made" or "synthetic" Latin.

Latin 102. Elementary Latin II. Three hours.

This is a continuation of 101.

Latin 201. Intermediate Latin I. Three hours.

In this course the student will first have the experience of reading lengthy passages from Latin literature. The passages "cover a wide range of interesting topics such as love, anecdotes, wit, biography, philosophy, religion, morality, friendship, philanthropy, games, laws of war, satirical comment." The selections are chosen from the works of Catullus, Cicero, Nepos, Horace, Pliny, Martial, Livy, and Ovid.

Latin 202. Intermediate Latin II. Three hours.

This course is designed to give the student an opportunity to study the writings of Cicero, a master of Latin prose. In addition to reading selections from various works, a study will be made of the period and of Cicero's life and influence.

Latin 301. Advanced Latin I. Three hours.

This course is designed to introduce the student to the poets of the Augustan Age, together with the history of the period. The life, works, and influence of Ovid are studied. Selections from the *Metamorphoses* are translated and the metrical form is studied.

Latin 302. Advanced Latin II. Three hours.

This is a further study of the poetry of the Augustan Age. Selections from Vergil's *Aeneid* are read. The structure and metrical form of the epic are studied.

Latin 401. Latin Literature I. Three hours.

Selections from the works of Horace, Vergil, Catullus, Tibullus, and others are read. This course may be repeated for additional credit since the authors studied will be different.

Latin 402. Latin Literature II. Three hours.

Selections are read from Livy, Tacitus, Suetonius, Caesar, and others. Background material on Roman historical writing is studied. This course may be repeated for additional credit since the authors studied will be different.

ITALIAN

Objectives:

1. To help students to acquire a basic knowledge of the modern Italian by progressive acquisitions of skills in understanding, speaking, reading, and writing.
2. To provide students with a key for understanding the modern Italian life as well as the monumental creation of the Italian spirit in the field of literature, music, and artistry.

DESCRIPTION OF COURSES

Italian 101. Elementary Italian. Three hours.

Basic structural patterns and vocabulary will be learned in class with emphasis on developing of the speech habits. Progressive grammar, reading, and writing will be taught. Class work will be reinforced by practice in the language laboratory.

Italian 102. Elementary Italian. Three hours.

A continuation of Italian 101. Further emphasis on the conversation, and continuing development of grammar and writing. Basic historical and cultural information will be introduced in reading lessons. Class work will be reinforced by practice in the language laboratory.

Communications

Mr. Voigt, Chairman of the Division

Mr. Bangham	Mr. Holloway	Mr. Uszler
Mr. Brown	Mr. M. Phillips	Mr. Vance
Mrs. Fred		Mrs. Webb
Mr. Hamm		Mr. Wilson

Objectives:

1. To expand the student's literary, artistic, and psychological appreciation of man and his expressive achievements.
2. To promote an increased understanding of the social and economic significance of the media of mass communication in the areas of speech, theatre, radio-television, and journalism.
3. To prepare the student for professional, business, and educational careers in the communication fields.

SPEECH AND DRAMATIC ART

Requirements:

For a Major in Speech and Dramatic Art (Teaching): Sem. Hrs.

Speech 100, 110, 382 or 383_____	9
Radio-TV 155 or 250_____	3
Dramatic Art 100, 200, 210, 284, and 380_____	15
Electives in speech or dramatic art to be approved by the department_____	9
	<hr/> 36

For a Major in Speech and Dramatic Art (Non-Teaching):

Speech 110, and 382 or 383_____	6
Radio-TV 155 or 250_____	3
Dramatic Art 100, and 200_____	6
To be selected with the approval of the department	15
	<hr/> 30

For a Major in Speech:

Speech 100, 110, 200, 382 or 385, and 383-----	15
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To be selected with the approval of the department_	15
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(Nine hours of the elective credit may be
selected from related areas within the
Division of Communications)

30

For a Minor in Speech:

Speech 100, 110, 200, and 382 or 383-----	12
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Electives in speech approved by the department---	9
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21

For a Minor in Dramatic Art:

Dramatic Art 100, 200, 210, and 284-----	12
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Electives in dramatic art approved by the department -----	9
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21

DESCRIPTION OF COURSES

SPEECH

Speech 100. Voice and Articulation. Three hours.

Study of how speech sounds are made; improvement in use of the vocal mechanism; essentials of distinct utterance and acceptable pronunciation; phonetic transcription; introduction to research in voice and articulation. Primarily for majors and minors.

Speech 110. Basic Speech. Three hours.

Development of proficiency in oral communication skills; analysis and organization of speech materials; speaker-listener relationships; use of oral language; efficient use of vocal mechanism; effective bodily action.

Speech 200. Oral Interpretation. Three hours.

A study of assimilating and communicating the meanings of prose, poetry, and dramatic literature through the instruments and tools of body, voice, thought, and emotion. Group and individual readings followed by a minimum of one public performance.

Speech 300. Oral Communication. Three hours.

Practical development of understanding and use of the basic speech processes of breathing, phonation, articulation, and resonance resulting in the student's ability to evaluate more clearly his own speech behavior, and to use those techniques desirable for the most efficient use of the vocal mechanism. Primarily for majors in elementary certification.

Speech 305. Advanced Oral Interpretation. Three hours.

Prerequisite: Speech 200.

A refinement of the technique employed in interpreting literature. The project method is the format of the course. Emphasis is placed upon student programs.

Speech 320. Introduction to Corrective Speech. Three hours.

An introductory course in speech correction for the classroom teacher. Study of the nature, etiology, and treatment of the various kinds of speech defects so that the teacher may know how to correct minor irregularities in the classroom and be able to recognize the major speech defects which must be referred to a certified speech therapist.

Speech 370. Business and Professional Speech. Three hours.

Development of proficient oral communication skills; drill and practice in speaking situations basic to business and industrial operations; interviews, sales talks, specially designed conferences, and problem-solving discussion groups, as well as analysis and organization of speech materials. Primarily for business-commerce majors.

Speech 382. Argumentation and Debate. Three hours.

Designed for the purpose of permitting a student to make rational decisions through the debate process and for the purpose of training for effective participation in a democratic society. Procedures in debate are emphasized in practical training, in reasoning, analysis, evidence, briefing arguments, refutation and oral communication.

Speech 382A. Debate Activity. One hour.

Academic credit to acknowledge the activity and research required of the student involved in intercollegiate debate.

Speech 383. Group Discussion. Three hours.

An analysis of the roles of participants and leaders in discussion; a study of the nature and function of discussion in the ongoing life of a democratic society; study and practice of logical processes and

reasoning; experiences in conducting formal and informal groups, followed by a minimum of one public performance.

Speech 385. Persuasion. Three hours.

Study of the nature and methods of persuasive speaking for influencing group opinion and action. Preparation and presentation of persuasive speeches together with criticism of same. Recommended as an advanced course for the business major.

Speech 420G. Survey of Rhetorical Theory. Three hours.

Introduction to the basic concepts, terminology and methods of rhetorical criticism as it has evolved from the ancient Greeks to the present age; works of Aristotle, Quintilian, St. Augustine, George Campbell, Richard Whately are studied.

Speech 425G. Survey of British and American Public Address. Three hours.

Study of outstanding British and American public speakers from the eighteenth century to the present. Selected speeches analyzed in their political, social, and economic context.

Speech 495. Teaching Speech and Dramatic Art. Two hours.

Assistance in the development of a workable philosophy of speech education. A survey of the materials and methods involved in teaching the various areas of speech and dramatic art—voice and articulation, speech via radio, forensic activities, play production, oral interpretation and dramatic literature. Guidance in the preparation of courses of study, units, and lesson plans adapted to the needs, and abilities of secondary students. Suggestions for evaluation. Direction in planning and conducting extracurricular activities.

DRAMATIC ART

Dramatic Art 100. Fundamentals of the Theater. Three hours.

Elementary theory and practice in the techniques of acting, setting construction, lighting, sound, costuming and make-up for the theater major.

Dramatic Art 200. Introduction to Dramatic Literature. Three hours.

Critical analysis of selected dramatic masterpieces from Greek antiquity to the present; designed to clarify the nature and major achievements of Western dramatic art; discussion of staging techniques of all major periods of dramatic production.

Dramatic Art 210. Technical Production. Three hours.

Prerequisite: Dramatic Art 100.

Intensive study of the technical elements in theatrical production; lectures plus practical application of techniques in setting construction, lighting, sound, costuming and make-up.

Dramatic Art 284. Acting Techniques. Three hours.

Prerequisite: Dramatic Art 100.

A study of acting from both the aesthetic and the practical viewpoints; exercises in pantomime and vocal techniques.

Dramatic Art 300. Elements of Play Production. Three hours.

Basic principles and practices of play production; choice of script, casting, directing and technical procedures. Offered particularly for the non-major who will be involved in producing plays.

Dramatic Art 310. Scene and Lighting Design. Three hours.

Prerequisite: Dramatic Art 210.

A study of the rudiments of design of stage scenery and lighting from the designer's analysis of the script through the final scenery and lighting plans.

Dramatic Art 370. Children's Theater. Three hours.

Prerequisite: Dramatic Art 100.

A concentrated study of the problems involved in organization and production of plays for and with children.

Dramatic Art 375. Creative Dramatics. Three hours.

A study of informal drama and its application to the classroom with the objective of development of creativity in the elementary school child.

Dramatic Art 380. Play Directing. Three hours.

Prerequisite: Dramatic Art 210.

Theories and principles of directing; director's interpretation; casting; planning action and making the prompt-book. Each student will direct an entire play.

Dramatic Art 452G. Early Dramatic Literature. Three hours.

A detailed study of representative plays from the great periods of dramatic literature from the Greeks to mid-nineteenth century. Readings of plays and collateral readings in critical sources.

Dramatic Art 453G. Modern Drama. Three hours.

A detailed study of the drama from the growth of realism to the present day. Specific emphasis on various styles of the late nineteenth and twentieth centuries.

RADIO-TELEVISION

Requirements:

<i>For a Major (Non-Teaching):</i>	Sem. Hrs.
Speech 100 -----	3
Radio-TV 150, 155, 250, 255, and 352 -----	15
Journalism 201 -----	3
To be selected with the approval of the department. (These elective hours may be selected in a related area—graphics, electronics, etc.)	9
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<i>For a Minor (Non-Teaching):</i>	
Speech 100 -----	3
Radio-TV 150 and 155 -----	6
To be selected with the approval of the department. (Three of the elected hours may be selected in a related area—graphics, electronics, etc.)	12
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For the Associate of Applied Arts—Radio and Television Broadcasting

Radio-Television 150, 155, 250, 251, 255, 256, 350, 352, 353, 355 -----	24
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Suggested Program

FRESHMAN YEAR

First Semester			Second Semester		
Eng.	101—Composition I	3	Eng.	102—Composition II	3
Sci.	103—Intro. to Physical Science	3	Sci.	105—Intro. to Biological Sci.	3
Soc.	101—General Sociology	3	Fsy.	153 General Psychology	3
Spch	100—Voice and Articulation	3	R-TV	155—Broadcast Announcing	3
R-TV	150—Intro. to Broadcasting	3	R-TV	250—Radio Workshop	3
	Military (Men)			Military (Men)	
	or			or	
	Elective (Women)	2		Elective (Women)	2
		<hr/> 17			<hr/> 17

SOPHOMORE YEAR

First Semester			Second Semester		
Soc.	203—Contemporary Soc. Prob.	3	Jour.	384—Advertising and Public Relations	3
Jour.	201—News Writing and Reporting -----	3	Mus.	162—Literature of Music	2
Mus.	161—Literature of Music	2	PE	—Activity course	1
PE	—Activity course	1	R-TV	256—Television Engineering	2
R-TV	251—Radio Engineering	2	R-TV	352—Continuity Writing	3
R-TV	255—Television Workshop	3	R-TV	353—Program Planning	3
R-TV	350—Radio Activity	1	R-TV	355—Television Activity	1
	Military (Men)			Military (Men)	
	or			or	
	Elective (Women)	2		Elective (Women)	2
		<hr/> 17			<hr/> 17

DESCRIPTION OF COURSES

Radio-TV 150. Introduction to Broadcasting. Three hours.

(Required of all radio-television majors and minors.)

An analytical and historical study of broadcasting. A study of the development of legislation, programming and careers in the field. Organization of stations and their relation to networks.

Radio-TV 155. Broadcast Announcing. Three hours.

Prerequisite: Speech 100.

Training and experience in announcing all types of copy for radio and television commercials, music continuity, news, sports, and variety shows. Special practice will eliminate colloquial speech.

Radio-TV 250. Radio Workshop. Three hours.

(Formerly Speech 150.)

The operation and care of studio and control room equipment. Non-technical study of control and transmission of all types of radio programs. Blending of sound, music and speech in production. Students in this class will participate in the production of University programs for WMKY-FM.

Radio-TV 251. Radio Engineering. Two hours.

(Formerly Speech 250.)

Prerequisite: Radio-TV 250.

Advance training in studio and control room equipment and its operation; general study of radio law with special work for examination by the FCC to qualify for a third class radio-telephone operator's license with broadcast endorsement.

Radio-TV 255. Television Workshop. Three hours.

Elementary treatment of technical aspects. Station organization and personnel. Theory of camera operation and picture composition. Techniques of television direction and staging. Field trips to educational and commercial stations for observations.

Radio-TV 256. Television Engineering. Two hours.

Prerequisite: Radio-TV 255.

Advanced training in the care and operation of television cameras, audio and visual switching equipment. Practice in camera and techniques and visual composition.

Radio-TV 350-351. Radio Activity. One hour.

Prerequisite: Radio 150 and 250.

Experience in presentation of radio programs under broadcasting conditions. One planning hour and five hours in production each

week. The programs will be prepared for the University Radio Station, WMKY-FM.

Radio-TV 352. Radio and Television Continuity Writing. Three hours.

(Formerly Speech 350.)

Format of all types of radio and television writing except dramatic scripts. Continuity for music programs, talks, interviews, round table discussions, forums and variety shows.

Radio-TV 353. Radio and Television Program Planning. Three hours.

Prerequisite: Either Radio-TV 250 or 255.

Organization and administrative functions of station program departments. Analysis of the purpose and basic idea of a program in relation to audience composition. Requirements of effective structure. Practice in laying out program formats for all types of radio and television programming. Replanning programs already on the air for increased effectiveness.

Radio-TV 354. Radio Production-Direction. Three hours.

(Formerly Speech 355.)

Prerequisite: Radio-TV 250.

Organization, routining, casting, rehearsing, and directing of major types of radio broadcasts. One lecture and four laboratory hours each week.

Radio-TV 355-356. Television Activity. One hour.

Prerequisite: Radio-TV 255.

Experience in presentation of television programs under broadcast conditions. One planning hour and five hours in production each week.

Radio-TV 450. Radio Activity. One hour.

Prerequisite: Radio-TV 350-351.

Experience in presentation of radio programs under broadcasting conditions. One planning hour and five hours in production each week. The programs will be prepared for the University Radio Station, WMKY-FM.

Radio-TV 453G. Radio and Television Script Writing. Three hours.

Prerequisite: Radio-TV 352.

Dramatic script and documentaries, poetry programs, serial dramas and children's shows for commercial and educational purposes. **Scripts are written to be aimed at definite markets.**

Radio-TV 454G. Television Production Arts. Three hours.

Prerequisite: Radio-TV 255.

An intermediate course in television production covering basic techniques of producing educational and commercial live television; lecture, demonstration, news, interview, panel and drama. A study of techniques and critical standards.

Radio-TV 455. Television Activity. One hour.

Prerequisite: Radio-TV 355-356.

Experience in presentation of television programs under broadcast conditions. One planning hour and five hours in production each week.

Radio-TV 457. Broadcast Programs and Audiences. Three hours.

Prerequisite: Radio-TV 353.

Broadcast program types, requirements of effective structure, listener characteristics and preferences in relation to program selection and listener attention. A study in depth of audience psychology.

Radio-TV 458G. Radio and Television in Education. Three hours.

(Formerly Speech 450G.)

Special study of production and utilization of radio and television in the classroom. Past experiments and practices will be studied. Current programs from national and regional libraries will be used for study and analysis.

Radio-TV 459G. Law, Ethics and Broadcasting. Three hours.

A study of the legal and ethical aspects of broadcasting through the study of court cases before the Federal Communications Commission. The responsibilities of the government and its relationship to broadcasting will be studied. This is study in depth of the function and responsibilities of the broadcaster to society.

JOURNALISM**Requirements:**

<i>For a Minor:</i>	Sem. Hrs.
Journalism 101, 201, 204, 370, and 385-----	12
To be selected from courses in the 300 series-----	9
	<hr/> 21

For the Associate of Applied Science—Journalism

Journalism 101, 201, 204, 363, 384, 385 ----- 17

Suggested Program

FRESHMAN YEAR

First Semester			Second Semester		
Eng.	101—Composition I	3	Eng.	102—Composition II	3
Hist.	131—Western Civilization I	3	Hist.	132—Western Civilization II	3
	Intro. to Mass		Jour.	201—Newswriting & Reporting	3
Jour.	101—Communication	3	FA	160—Apprec. of the Fine Arts	3
Spch	150—Basic Speech	3	R-TV	250—Radio Workshop	3
R-TV	150—Intro. to Broadcasting	3		Military (Men)	
	Military (Men)			or	
	Elective (Women)	2		Elective (Women)	2
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17			17		

SOPHOMORE YEAR

First Semester			Second Semester		
Sci.	103—Intro. to Physical Science	3	Sci.	105—Intro. to Biological Sci.	3
Geog.	211—Economic Geography	3	R-TV	352—Continuity Writing	3
Jour.	204—Copyreading and Editing	3	Jour.	363—Editorial & Feature Writ.	3
Jour.	385—Pictorial Reporting	2	Jour.	384—Advertising & Pub. Rel.	3
IE	103—Graphic Arts	3	*Bus.	211—Beginning Typewriting	2
PE	—Activity course	1	PE	—Activity course	1
	Military (Men)			Military (Men)	
	or			or	
	Elective (Women)	2		Elective (Women)	2
<hr/>			<hr/>		
17			17		

*Or evidence of proficiency.

DESCRIPTION OF COURSES

Journalism 101. Introduction to Mass Communication. Three hours.

An introduction to mass media of newspapers, magazines, radio, television, books, films, historical background, particularly of news media; how media function, their social responsibility and career opportunities in communications.

Journalism 201. News Writing and Reporting. Three hours.

Basic instruction in news gathering and writing for newspapers and for broadcast media. Includes field experience, reporting actual community news for class and campus news for the University newspaper. Special instruction for teachers of high school journalism and for sponsors of high school publications. Required for journalism and radio minors and for English area majors.

Journalism 204. Copy Reading and Editing. Three hours.

Prerequisite: Journalism 201.

Instruction on editing newspaper copy, wire service copy, proof reading, headline writing, page layout, typography, rewriting. Special attention to legal responsibilities of the press. Actual wire service copy edited in class.

Journalism 301. Advanced News Writing and Reporting. Three hours.

Prerequisite: Journalism 201.

A continuation and elaboration of Journalism 261 with more emphasis on laboratory writing of interpretative news articles both from community and campus sources, and with more attention to such specialized areas as sports, social news, and criticism of the arts.

Journalism 363. Editorial and Feature Writing. Three hours.

A critical study of newspaper and magazine feature articles, and of editorials, with practice in the research and writing of both. Classroom analysis of such articles as to content, logic, meaning and effectiveness.

Journalism 370. Journalism Laboratory. One hour.

Prerequisite: Journalism 201.

Practical experience in journalism methods through staff work in the campus media under supervision.

Journalism 384. Advertising and Public Relations. Three hours.

Predominantly a study of advertising practices and economics for effective marketing through the various media, including newspapers, magazines, outdoor posters (billboards), transit, radio, television, with examination of and practice in copy and layout. Additionally, outside research in the field of public relations and the responsibility of public relations to both clients and the public. Recommended also for business students interested in marketing.

Journalism 385. Pictorial Reporting. Two hours.

A text and laboratory introduction to photography, with instruction in the use of the camera, the use of the darkroom, with photo layout, and with reporting of news events and features with the camera.

Philosophy

Mr. Mangrum, Head of the Department

Mr. Gnagy

Mr. Greenman

Mr. Luckey

Objectives:

1. To increase the student's ability to think intelligently about basic views concerning man and the universe which underlie our social, political, economic, religious, and scientific theories and activities.
2. To introduce the student to the basic ideas of philosophers who have greatly influenced the thought and action of the modern world.
3. To develop in the student an understanding and appreciation of the history and the function of philosophy.
4. To prepare the student to do graduate work in philosophy.

Requirements:

<i>For a Major:</i>	Sem. Hrs.
Philosophy 200, 306, 405, and 406	12
Additional credit in philosophy approved by the department	18
Minimum for a Major	30
<i>For a Minor:</i>	Sem. Hrs.
Philosophy 200, 306, 405, and 406	12
Additional credit in philosophy approved by the department	9
Minimum for a Minor	21

DESCRIPTION OF COURSES

Philosophy 200. Introduction to Philosophy. Three Hours.

(This course cannot be taken by freshmen unless they are majoring or minoring in Philosophy.)

An introduction to major areas of philosophy; a study of basic views concerning God, man, and the world which underlie our social, political, economic, religious, and scientific theories and activities. More specifically, this course introduces the student to alternative views concerning the nature of philosophy, knowledge, scientific method, meaningful statements, truth, reality, God, man, religion, art, and the good life.

Philosophy 300. Philosophy of Science. Three hours.

An introductory study of the development of natural science in the Western Hemisphere, showing how the question of method and the concepts of the constitution of the physical world influence one another. The course includes a study of the roles of reason and observation, and basic logical analysis of scientific propositions, the nature and status of physical laws, and an investigation of the consequences for science and philosophy of the special and general theories of relativity.

Philosophy 303. Social Ethics. Three hours.

(Formerly Philosophy 305.)

A study of theoretical and practical problems of moral conduct and proposed solutions to them; a study of the nature of ethics, value, rights, and obligations; the relation of moral freedom, hereditary and environmental factors, and religion to conduct; the question of the relativity of moral values; proposed standards of moral conduct; and problems of personal and social morality.

Philosophy 306. Logic. Three hours.

A study of correct forms of reasoning or inference; the study of traditional, symbolic, and inductive logic; the nature and purpose of logic; the forms and uses of language; informal fallacies of relevance and ambiguity; the purposes and types of definition; kinds of meaning; deduction in traditional and symbolic logic; and induction.

Philosophy 307. Philosophy of Religion. Three hours.

Prerequisite: Any one of the following courses: Philosophy 200, Philosophy 405G, or Philosophy 406G.

A study of the nature and meaning of religion within each of the worldviews: Supernaturalism, Materialism, Naturalism, Organism, and Idealism. A universal definition of religion is sought; the function of philosophy of religion is examined; and the following topics are discussed from the point of view of each of the above philosophies; the nature of religion; the origin and nature of religious knowledge; and the nature of God, the world, man, sin, and salvation.

Philosophy 308. Philosophy of the Arts. Three hours.

An examination of the major theories of art with special consideration of: the structure of art; the aesthetic experience; problems in aesthetics; and art criticism.

Philosophy 309. Existentialism. Three hours.

This course will study the traditional subject-matter of philosophy—ontology, epistemology, ethics—from an existential point of view, i.e., a point of view which orients philosophical problems in terms of the categories of existence rather than of reason. The result is an “existential” understanding of ontology, epistemology, and ethics. Existentialism also provides a particular orientation towards theology, psychology, and literature; hence, the course will deal with “existential” theology (Tillich, Barth, Bultmann, etc.), “existential” psychology (Sartre, Jaspers, May, etc.), and “existential” literature (Camus, Sartre, Kafka, Rilke, etc.).

Philosophy 310. Analysis of Ideas. Three hours.

Prerequisite: Philosophy 200 or consent of instructor.

Introduction to the theory and technique of analysis. The aims of the course are two-fold: (1) proficiency in the technique of rigorous logico-mathematical analysis of propositions ordinarily expressed in a natural language, and (2) application of this technique to the analysis of basic propositions in the social, biological, and physical sciences and the humanities.

Philosophy 311. Ordinary Language Philosophy. Three hours.

Prerequisite: Any one of the following courses: Philosophy 200, Philosophy 405G, or Philosophy 406G.

A study of the contemporary approach to philosophy whereby philosophers attempt to solve philosophical problems by appealing to language as it is ordinarily employed. The nature of this approach to philosophy, proposed solutions to philosophical problems given by its representatives, and basic criticisms of it will be studied and evaluated.

Philosophy 405G. History of Philosophy I. Three hours.

Ancient and Medieval philosophy; a history of Western philosophy from Thales (624-546 B.C.), the father of Western philosophy, to the beginning of the Renaissance in the fourteenth century A.D.: pre-Socratic philosophers; Socrates; Plato, Aristotle; Hellenistic and Roman philosophy; Christianity; and Medieval philosophers and theologians, including Augustine, Aquinas, Duns Scotus, and others.

Philosophy 406G. History of Philosophy II. Three hours.

Modern and Contemporary philosophy; a history of Western philosophy from the Renaissance in the fourteenth century A.D. to the present; the Renaissance; the Reformation; science and scientific method; and the philosophies of Bacon, Hobbes, Descartes, Spinoza, Leibniz, Locke, Berkeley, Hume, Kant, Hegel, Schopenhauer, Marx, Nietzsche, Bergson, Dewey, Whitehead, Russell, and others.

Philosophy 410. Contemporary Philosophy. Three hours.

Prerequisites: Any one of the following courses: Philosophy 200, Philosophy 405G, or Philosophy 406G.

An examination, interpretation, and evaluation of the philosophies of some of the most prominent representatives of such leading contemporary philosophical schools of thought as Idealism, Realism, Pragmatism, Logical Empiricism, Phenomenalism, Existentialism, Thomism, and Marxism. The metaphysics, epistemology, ethics, religious views, and aesthetics of the representatives of the various schools of philosophy will be emphasized.

Philosophy 510. Living Philosophy. Three hours.

This course is designed for graduate students who have had little or no training in philosophy. It is a study of such living schools of philosophy as Pragmatism, Existentialism, Logical Empiricism, Thomism, Realism, Naturalism, Organism, Materialism, and Idealism. In each of the above philosophies, the theory of the nature of knowledge, reality, religion, man, and the moral life will be emphasized.



SCHOOL OF SCIENCES AND MATHEMATICS

William C. Simpson, Dean

Biology

Chemistry

Geosciences

Mathematics

Physics



MOREHEAD STATE UNIVERSITY

Sciences and Mathematics

Mr. Pryor, Chairman of the Division of Biological Sciences
 Mr. C. Payne, Chairman of the Division of Physical Sciences
 Mr. DuBar, Head of the Department of Geology
 Mr. Nail, Head of the Department of Mathematics

Mr. L. Barber	Mrs. Cooper	Mrs. Mahaney
Mr. W. Barber	Mr. Cross	Mr. Mann
Miss Boggs	Miss Dobson	Mrs. Mayo
Miss Burchett	Mr. R. Eversole	Mr. Miller
Mr. Burton	Mr. Fair	Mrs. D. Moore
Mr. Busroe	Mr. Falls	Mr. Nolen
Mr. Brengelman	Miss Heaslip	Mr. L. Payne
Mr. Brumagen	Mr. D. Hill	Mr. Philley
Mrs. Cain	Mr. Jackson	Mr. T. Phillips
Mr. Chaplin	Mr. Jenkins	Mr. Saxon
Mr. Cooper	Mr. Ladendorf	Mr. Setser
Mr. Hoge	Mr. Lake	Mr. Simpson
Miss House		Mr. Williams
Mr. Hylbert		Mr. Worsencroft

Objectives and Purpose:

The purpose of the School of Sciences and Mathematics is principally to prepare students for careers in Biology, Chemistry, Geology and the Earth Sciences, Mathematics, and Physics. The intensity of classroom, laboratory, and library experience in the basic course of study in each major field of natural science or mathematics, coupled with a broad background in related disciplines, prepares the graduate for professional opportunities in teaching, research and development in government or in industry, or in related specialized fields. Students are encouraged to accept the challenges and opportunities offered them in these fields.

Curricula are provided within the framework of the degree of Bachelor of Science which prepare students, who desire to do so, to continue their studies at the graduate level in any of the five major disciplines.

The School offers a program leading to the Master of Science with an emphasis in biology as well as graduate level courses in the other sciences and mathematics for those students who are working

toward the Master of Arts degree in Education or the Master of Higher Education degree.

Pre-professional programs are also offered by the School in the fields of medicine, medical technology, pharmacy, dentistry, optometry, and engineering. Upon completion of one of these programs, students continue their studies at one of a number of other universities.

Because the sciences are fundamental to all technology, and are essential to the understanding and appreciation of many of the current events which influence every individual's life, an introductory survey of the physical and biological sciences is an integral part of all undergraduate curricula in the University. From these general science courses, the non-science student gains a basic knowledge of principles upon which he can build an understanding of the technical world in which he lives.

SCIENCE FOR GENERAL EDUCATION

(Courses in this section are recommended for non-science majors in meeting the general studies requirements for graduation.)

For a Minor in General Science (Elementary Education Majors Only) Sem. Hrs.

Science 103, 105, 390, 395, 396 and six additional hours
of Science electives ----- 21

(It is recommended that the electives for this minor be selected from Science 200, 375, and 385.)

DESCRIPTION OF COURSES

NOTE: (3-2-4) means 3 hours class, 2 hours laboratory, 4 hours credit.

Science 103. Introduction to Physical Science. (2-2-3)

A study of measurements, states of matter, basic chemistry, mechanics, wave motion, basic geologic processes, meteorology, and the universe.

Science 105. Introduction to Biological Science. (2-2-3)

A study of protoplasm and cellular structure, cell division, genetics embryology, ecology, evolution, morphology, physiology, and taxonomy of higher plants and animals.

Science 200. Descriptive Astronomy. (3-0-3)

A non-mathematical presentation of methods and results of astronomical exploration of the solar system, our stellar system and the galaxies. Optical and radio techniques are discussed.

Science 375G. Earth Science. (2-2-3)

Prerequisite: Junior standing.

This course is offered to acquaint elementary and secondary teachers with the basic fundamentals of the earth sciences. Credit will not be allowed for the earth science, or geology, major or minor.

Science 376G. Science for Secondary Teachers. (2-2-3)

Prerequisite: Junior standing and permission of instructor.

A presentation of the latest concepts of teaching high school biology, chemistry, and physics. Special lecture and laboratory teaching techniques will be investigated. Methods of obtaining and maintaining scientific instruments are discussed.

Science 385G. History of Science. (3-0-3)

Prerequisite: Six hours of science credit.

The development of scientific thought from the time of the early Greeks to the present. Special emphasis is placed on the sequential development of scientific thought.

Science 390G. Science for the Elementary Teacher. (2-2-3)

Prerequisites: Twelve hours of science credit. Admission to the Teacher Education Program.

The "Process Approach" to acquiring scientific knowledge. The integrated processes of formulating hypotheses, controlling variables, interpreting data, etc.

Science 395G. Plant Natural History. (1-4-3)

Prerequisite: Science 105.

A field approach to the survey of major taxonomic groups, with emphasis on the natural history of local plants.

Science 396G. Animal Natural History. (1-4-3)

Prerequisite: Science 105.

A field approach to the survey of major taxonomic groups, with emphasis on the natural history of local animals.

PRE-PROFESSIONAL PROGRAMS

Medical Technology

Morehead State University is affiliated with the School of Medical Technology, Beckley Appalachian Regional Hospital, Beckley, West Virginia. In accordance with this program, the student completes three years of prescribed work at Morehead and is then eligible for transfer to the School of Medical Technology in Beckley. During the senior year, courses are taken which are necessary to complete the requirements for a recognized diploma in medical technology. Upon the completion of the four-year program, Morehead State University confers upon the candidate the Bachelor of Science degree with an Area in Medical Technology.

The following program, for the first three years at Morehead, is designed specifically to fulfill the requirements in the affiliated School of Medical Technology. Students planning to complete the program in some other school should consult individual catalogs for requirements of that school.

Medical Technology

FRESHMAN YEAR

First Semester			Second Semester		
Eng.	101—Composition I	3	Eng.	102—Composition II	3
Biol.	208—Invertebrate Zoology	3	Biol.	209—Vertebrate Zoology	3
Chem.	111—General Chemistry I	4	Chem.	112—General Chemistry II	4
Math.	131—General Mathematics	3	Math.	132—General Mathematics	3
P.E.	—Activity course	1	Hlth.	150—Personal Health	2
	Military (Men)			Military (Men)	
	or	2		or	2
	Elective (Women)			Elective (Women)	
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SOPHOMORE YEAR

First Semester			Second Semester		
Eng.	202—Intro. to Literature	3		English Elective	3
Biol.	331—Human Anatomy	3	Chem.	223—Quantitative Analysis	3
Phys.	131—Elementary Physics I	4	Phys.	132—Elementary Physics II	4
	Social Sci. Elective	3	P.E.	—Activity course	1
Psy.	153—General Psychology	3		Social Science Elective	3
	Military (Men)			Military (Men)	
	or	2		or	2
	Elective (Women)			Elective (Women)	
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18			16		

JUNIOR YEAR

First Semester			Second Semester		
Chem.	326—Organic Chemistry	4	Chem.	327—Organic Chemistry II	4
Biol.	317—Bacteriology	4	Biol.	338—Vertebrate Embryology	4
Biol.	332—Human Physiology	3	Hist.	400—American Foundations	3
Biol.	420—Histology	2		Humanities or Com. Elec.	3
S.S.	300—Current World Problems	3	Phil.	200—Intro. to Philosophy	3
<hr/>			<hr/>		
16			17		

Pre-Dental Program

The Council on Dental Education of the American Dental Association has established minimum requirements for admission to dental schools. Basic requirements are built around the successful completion of two full years of work in an accredited liberal arts and science college or university. Minimum course requirements include one year of study in each of the areas of English, biology, physics, general chemistry, and at least one semester of organic chemistry. It is important that all science classes will include both lecture and laboratory instruction. Dental schools do not encourage students to apply with such minimal preparation, because the selection of applicants is also based on the demonstration of superior qualifications in personal maturity and academic competence. Three, and preferably four, years of undergraduate preparation are necessary to provide students with those qualifications that will permit entry into dental schools. Pre-dental students should have a good background in sciences and mathematics beyond the minimum requirements and they should also cultivate interests in literature, music, art, speech, languages, social sciences, and psychology. For purposes of scheduling, course selection, and complete preparation for professional school, the pre-dental student must work closely with his faculty adviser.

A student who follows a program that includes the requirements for graduation and enters dental school at the end of his junior year, may, after successfully completing his first year at dental school, transfer his credits to Morehead State University and receive the bachelor's degree.

Pre-Engineering Program

The following two-year program for pre-engineering is suggested as one meeting the basic requirements for most schools of engineering. Students who plan to take a degree in engineering should consult the catalog of the school of engineering which they plan to attend to be certain that they fulfill the requirements of that school.

Pre-Engineering

FIRST YEAR

First Semester	
Eng. 101—Composition I	3
Math. 175—Anal. Geom. and Cal. I	4
Chem. 111—General Chemistry I	4
I.E. 103—Technical Drawing I	3
P.E. —Activity course	1
Military	2

 17

Second Semester	
Eng. 102—Composition II	3
Math. 275—Anal. Geom. and Cal. II	4
Chem. 112—General Chemistry II	4
I.E. 203—Technical Drawing II	3
P.E. —Activity course	1
Military	2

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SECOND YEAR

First Semester			Second Semester		
Eng.	202—Intro. to Literature	3	Math.	363—English Elective	3
Math.	276—Anal. Geom. and Cal. III	4	Math.	363—Differential Equations	3
Phys.	231—Gen. College Physics I	5	Phys.	232—Gen. College Physics II	5
Psy.	153—General Psychology	3		Elective	3
	Military	2		Military	2
		17			17

Pre-Medical Program

Most medical schools require only a minimum number of specific science courses. Applicants must have completed the following courses prior to entrance: one year each of biology, physics, general chemistry, and organic chemistry. Additional requirements include one year of English and at least one semester each of algebra and trigonometry. These specific courses and the successful completion of three years of undergraduate study represent basic requirements for entrance to medical schools, and it is highly recommended that these requirements be supplemented by additional study in a variety of subject areas. It is desirable, but not essential, that the pre-medical student take advanced courses in chemistry, mathematics, and biology. It is most important that the pre-medical student balance his scientific education with courses selected from the arts, humanities and social sciences.

Since specific requirements vary between medical schools, it is essential that the student investigate the requirements of the school of his choice during the first two years of his preparatory program.

In addition to academic excellence, admission to medical school is based on other factors that measure the applicant's maturity and potential as a contributing member of the medical profession. Pre-medical students are encouraged to take active part in various campus activities and become effective members of campus organizations. It is most important that he consult his faculty adviser often for direction and guidance.

Most pre-medical students earn a bachelor's degree before they enter medical school; however, in exceptional cases some students do enter medical school at the end of their junior year. A student who follows a program that includes the requirements for graduation and enters medical school at the end of his junior year may, after successfully completing his first year at medical school, transfer his credits to Morehead State University and receive the bachelor's degree.

Pre-Pharmacy

The following two-year program for pre-pharmacy is suggested as one meeting the basic requirements for schools of pharmacy. Those who plan to take a degree in pharmacy should consult the catalog of the school of pharmacy which they plan to attend to be certain that they fulfill the requirements of the chosen school.

Pre-Pharmacy

FIRST YEAR

First Semester		Second Semester	
Eng. 101—Composition I	3	Eng. 102—Composition II	3
Biol. 208—Invertebrate Zoology	3	Biol. 209—Vertebrate Zoology	3
Math. 152—College Algebra	3	Math. 141—Plane Trigonometry	3
Chem. 111—General Chemistry I	4	Chem. 112—General Chemistry II	4
P.E. —Activity course	1	Hlth. 150—Personal Health	2
Military (Men)		Military (Men)	
or	2	or	2
Elective (Women)		Elective (Women)	
	<hr/> 16		<hr/> 17

SECOND YEAR

First Semester		Second Semester	
Phys. 131—Elementary Physics I	4	Phys. 132—Elementary Physics II	4
Chem. 222—Qualitative Analysis	4	Chem. 223—Quantitative Analysis	4
Biol. 215—General Botany	4	Math. 175—Anal. Geom. and Cal. I	4
Social Science Elective	3	Humanities or Com. Elec.	3
Military (Men)		Military (Men)	
or	2	or	2
Elective (Women)		Elective (Women)	
	<hr/> 17		<hr/> 17

Pre-Optometry Program

The Commonwealth of Kentucky has approved a financial plan to aid in the support of several students from participating colleges, of which Morehead State University is a member, in pursuing the optometry program at the University of Houston.

The following program is designed to meet the entrance requirements at the University of Houston School of Optometry and is generally acceptable at other universities. Any deviation from this prescribed program should be cleared through the student's adviser.

Pre-Optometry

FIRST YEAR

First Semester		Second Semester	
Eng. 101—Composition I	3	Eng. 102—Composition II	3
P.E. —Activity course	1	P.E. —Activity course	1
Chem. 111—General Chemistry I	4	Chem. 112—General Chemistry II	4
Math. 152—College Algebra	3	Math. 141—Plane Trigonometry	3
Social Science Elective	3	Social Science Elective	3
Military (Men)		Military (Men)	
or	2	or	2
Elective (Women)		Elective (Women)	
	<hr/> 16		<hr/> 16

SECOND YEAR

First Semester			Second Semester		
Eng.	202—Intro. to Literature	3	English Elective		3
Sci.	105—Intro. to Biological Sci.	3	Biol.	208—Invertebrate Zoology	3
Phys.	131—Elementary Physics I	4	Phys.	132—Elementary Physics II	4
Biol.	206—Biological Etymology	1	Biol.	317—Bacteriology	4
	Social Science Elective	3		Military (Men)	
	Military (Men)	2		or	2
	Elective (Women)			Elective (Women)	
		16			16

Associate of Science Degree

For the individual who desires a two-year general program with emphasis on the sciences and/or mathematics.

FRESHMAN YEAR

First Semester			Second Semester		
Eng.	101—Composition I	3	Eng.	102—Composition II	3
PE	—Activity course	1	PE	—Activity course	1
Sci.	103—Intro. to Physical Sci.	3	Sci.	105—Intro. to Biological Sci.	3
Math.	152—College Algebra	3	Math.	141—Plane Trigonometry	3
Psy.	153—General Psychology	3		*Elective	3
	Military (Men)	2	Hlth	150—Personal Health	2
	or			Military (Men)	
	Elective (Women)			or	2
		15			17

SOPHOMORE YEAR

First Semester			Second Semester		
Eng.	202—Intro. to Literature	3	Spch	150—Basic Speech	3
Hist.	241—U.S. of Amer. 1492-1865	3	Hist.	242—U.S. of Amer. Since 1865	3
Phil.	200—Intro. to Philosophy	3	PS	241—Government of the U.S.	3
	*Elective	6	or		
	Military (Men)	2	Ec.	201—Principles of Economics	6
	or			*Elective	6
	Elective (Women)			Military (Men)	2
		17			17

*Electives to be approved by the advisor and may be selected from two of the following fields—

Biology
Chemistry
Earth Science
Geology
Mathematics
Physics

Minimum for the Degree 66

Note: Science 103 and 105 may be waived for other approved courses in science and/or mathematics.

Biology

Requirements:

For a Provisional High School Certificate with an Area of Concentration in Science (Emphasis on Biology):

	Sem. Hrs.
Biology 206, 208, 209, 215, 317, 471 and 11 hours electives in advanced biology -----	27

Additional requirements for an Area of Concentration:

Chemistry 111, 112, 326, and 327 -----	16
Physics 131, 132, and 350 -----	12
Earth Science 214 -----	3
Mathematics 141 and 152 (or equivalent) -----	6

For a Major (Teaching):

Sem. Hrs.

Biology 206, 208, 209, 215, 304, 317, 380, 471, one field course, and two courses to be selected from the following: 337, 338, 450, 451 -----	31-33
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Students who are majoring in biology are also required to earn credits in the following science and mathematics courses:

Chemistry 111 and 112 -----	8
Physics 131 and 132 -----	8
Earth Science 214 -----	3
Mathematics 141 and 152 (or their equivalent) ---	6

For a Minor (Teaching):

Sem. Hrs.

Biology 206, 208, 209, and 215 -----	11
Approved electives in advanced biology -----	10
	21
Minimum for a Minor -----	21

Students minoring in Biology are also required to take Chemistry 111 and 112.

Sem. Hrs.

For a Major (For those students planning to pursue graduate studies in Biology—Non-Teaching):

Biology 206, 208, 209, 215, 471, 476, 495, and 14 hours electives in advanced biology -----	33
--	----

Additional requirements:

Chemistry 111, 112, 326, and 327 -----	16
Physics 131 and 132 -----	8
Earth Science 214 -----	3
Mathematics 175, 275, 276, 355, and 401 -----	19
Modern foreign language -----	6

For the Master of Science Degree:

**Requirements for Unconditional Admission to Graduate Study in Biology:*

1. General admission to graduate study.
2. Completion of an undergraduate major or minor in biology.
3. A minimum standing of 3.0 on all undergraduate biology courses above the freshman level.
4. Acceptable proficiency in chemistry, physics, and mathematics.

Requirements for the Degree:

1. Completion of a minimum of 18 semester hours of approved course work in biology. At least twelve hours of this work must be earned in courses open only to graduate students.
2. Completion of an approved thesis.
3. Completion of a minimum of 30 semester hours of graduate work. (This includes the credit allowance for the thesis.)
4. A reading knowledge of a modern foreign language.
5. Successful completion of a final oral examination including defense of the thesis. Written examinations may also be required at the discretion of the student's committee and the Dean of Graduate Programs.

^{*}See the section on Graduate Study for more detailed information. (Pp. 113-6)

SUGGESTED PROGRAMS

The following programs have been devised to help students in selecting their courses and making their schedules. Close adherence to these suggested programs will aid in meeting all requirements for graduation.

Provisional High School Certificate with an Area in Science (Biology Emphasis)

FRESHMAN YEAR

First Semester			Second Semester		
Eng.	101—Composition I	3	Eng.	102—Composition II	3
Biol.	208—Invertebrate Zoology	3	Biol.	209—Vertebrate Zoology	3
Math.	152—College Algebra	3	Math.	141—Plane Trigonometry	3
Chem.	111—General Chemistry I	4	Chem.	111—General Chemistry II	4
P.E.	—Activity course	1	Ed.	100—Orientation in Education	1
	Military (Men)			Military (Men)	
	or	2		or	2
	Elective (Women)			Elective (Women)	
<hr/>			<hr/>		
16			16		

SOPHOMORE YEAR

First Semester			Second Semester		
Eng.	202—Intro. to Literature	3	Ed.	210—Human Gr. and Develop. I	3
Biol.	206—Biological Etymology	1	Biol.	317—Bacteriology	4
Biol.	215—General Botany	4	Hlth.	150—Personal Health	2
Phys.	131—Elementary Physics I	4	Phys.	132—Elementary Physics II	4
Psy.	153—General Psychology	3	P.E.	—Activity course	1
	Military (Men)			Military (Men)	
	or	2		or	2
	Elective (Women)			Elective (Women)	
<hr/>			<hr/>		
17			16		

JUNIOR YEAR

First Semester			Second Semester		
S.S.	300—Current World Problems	3		Humanities or Com. Elec.	3
	Humanities or Com. Elec.	3		Social Science Elective	3
Ed.	300—Intro. to Student Teach.	1		Adv. Biology Elective	3
	Adv. Biology Elective	3	Chem.	327—Organic Chemistry II	4
Chem.	326—Organic Chemistry I	3	E.S.	214—Geol. Hist. of Pl. and An.	3
	Social Science Elective	3			
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17			16		

SENIOR YEAR

First Semester			Second Semester		
Hist.	400—American Foundations	3	Ed.	477—Professional Semester	15
Biol.	471—Seminar	1		(The Professional Semester may be taken either semester of the senior year)	
	Humanities or Com. Elec.	3			
	Adv. Biology Elective	3			
Phys.	350—Radiation Physics	4			
	Elective	2-3			
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16-17			15		

Provisional High School Certificate with a Major in Biology

FRESHMAN YEAR

First Semester			Second Semester		
Eng.	101—Composition I	3	Eng.	102—Composition II	3
P.E.	—Activity course	1	P.E.	—Activity course	1
Biol.	206—Biological Etymology	1	Ed.	100—Orientation in Education	1
Biol.	208—Invertebrate Zoology	3	Biol.	209—Vertebrate Zoology	3
Chem.	111—General Chemistry I	4	Chem.	112—General Chemistry II	4
Math.	152—College Algebra	3	Math.	141—Plane Trigonometry	3
	Military (Men)			Military (Men)	
	or	2		or	2
	Elective (Women)			Elective (Women)	
		17			17

SOPHOMORE YEAR

First Semester			Second Semester		
Biol.	215—General Botany	4	Eng.	202—Intro. to Literature	3
Phys.	131—Elementary Physics I	4	Phys.	132—Elementary Physics II	3
Psy.	153—General Psychology	3	Ed.	210—Human Gr. and Develop. I	3
	Humanities or Com. Elec.	3		Social Sci. Elective	3
	Military (Men)		Hlth.	150—Personal Health	2
	or	2		Military (Men)	
	Elective (Women)			or	2
		16			17

JUNIOR YEAR

First Semester			Second Semester		
Biol.	304—Genetics	3	Biol.	317—Bacteriology	4
Biol.	337—Comparative Anatomy		Biol.	380—General Physiology	3
or		3-4	Ed.	300—Intro. to Student Teaching	1
Biol.	450—Plant Anatomy		S.S.	300—Current World Problems	3
	Social Sci. Elective	3		Humanities or Com. Elec.	3
	Elective	6		Elective	3
		15-16			17

SENIOR YEAR

First Semester			Second Semester		
Hist.	400—American Foundations	3	Ed.	477—Professional Semester	15
Biol.	471—Seminar	1		(The Professional Semester may be taken either semester of the senior year.)	
Biol.	—Field course	2-4			
Biol.	—Adv. Biology	3			
	Elective	6			
		17			15

Bachelor of Science Degree with a Major in Biology
(Non-Teaching)

FRESHMAN YEAR

First Semester			Second Semester		
Eng.	101—Composition I	3	Eng.	102—Composition II	3
P.E.	—Activity course	1	Chem.	112—General Chemistry II	4
Chem.	111—General Chemistry I	4	Biol.	209—Vertebrate Zoology	3
Biol.	208—Invertebrate Zoology	3	Math.	275—Anal. Geom. and Cal. II	4
Math.	175—Anal. Geom. and Cal. I	4	P.E.	—Activity course	1
	Military (Men)			Military (Men)	
	or	2		or	2
	Elective (Women)			Elective (Women)	
		17			17

SOPHOMORE YEAR

First Semester			Second Semester		
Hlth.	150—Personal Health	2	Psy.	153—General Psychology	3
Chem.	326—Organic Chemistry I	4	Chem.	327—Organic Chemistry II	4
Biol.	215—General Biology	4		Social Science Elective	3
Math.	276—Anal. Geom. and Cal. III	4	Biol.	206—Biological Etymology	1
	Military (Men)		P.E.	—Activity course	1
	or	2		Elective	3
	Elective (Women)			Military (Men)	2
				or	
				Elective (Women)	2
		16			17

JUNIOR YEAR

First Semester			Second Semester		
	English Elective	3	S.S.	300—Current World Problems	3
Phys.	131—Elementary Physics I	4	Phys.	132—Elementary Physics II	4
	Adv. Biology Elective	3	E.S.	214—Geol. Hist. of Pl. and Anl.	3
Ger.	101—Beginning German		Ger.	102—Beginning German	
Fr. or	101—Beginning French	3	Fr. or	102—Beginning French	3
Rus. or	101—Beginning Russian		Rus. or	102—Beginning Russian	
Math.	355—Probability	3		Adv. Biology Elective	3
		16			16

SENIOR YEAR

First Semester			Second Semester		
Hist.	400—American Foundations	3		Social Science Elective	3
Biol.	395—Biochemistry	4	Biol.	476—Special Problems	3
	Adv. Biology Elective	3		Adv. Biology Elective	6
Math.	401—Anal. and Des. of Exper.	3	Biol.	471—Seminar	1
	Elective	3		Elective	3
		16			16

DESCRIPTION OF COURSES

NOTE: (3-2-4) means 3 hours class, 2 hours laboratory, 4 hours credit.

Biology 206. Biological Etymology. (1-0-1)

Investigations of root-concepts of terms necessary for a better understanding of the biological sciences.

Biology 207. Biological Illustration. (1-2-2)

Techniques of representation with pencil, pen and ink, black-board, and photography. Development of illustrative procedure necessary for classroom and publication clarification.

Biology 208. Invertebrate Zoology. (2-2-3)

Basic biological and zoological principles: morphology, physiology, embryology, composition, and metabolism. General characteristics, life histories, taxonomy, ecology, and evolution of the invertebrates.

Biology 209. Vertebrate Zoology. (2-2-3)

Prerequisite: Biology 208.

General characteristics, anatomy, physiology, taxonomy, ecology, and evolution of the vertebrates. Detailed laboratory studies of a fish, amphibian, reptile, bird, and mammal.

Biology 215. General Botany. (2-4-4)

Structures and physiology of the vegetative and reproductive plant organs; introduction to plant genetics and survey of the plant kingdom in terms of structure, ecology, and evolution.

Biology 217. Microbiology. (1-4-3)

Cultivation, observation, classification, morphology, and physiology of microorganisms; emphasis upon their relation to food and water sanitation and to disease.

Biology 232. Anatomy and Physiology. (3-2-4)

Prerequisite: Science 105.

Anatomy and physiology of the major systems of the human body.

Biology 304. Genetics. (2-2-3)

Prerequisite: Biology 209 or 215.

Mendelism, chromosomes and heredity, gene theory, cytological and physiological analyses, and population genetics.

Biology 313. Economic Botany. (0-0-3)

Importance of plant products in foods, medicine, beverages, fibers, and wood products in human need on a world-wide basis. Offered by correspondence only.

Biology 317. Bacteriology. (2-4-4)

Prerequisites: Biology 209 or 215 and Chemistry 112.

Methods of identification and classification of bacteria; morphology, distribution of microorganisms; cultivation, observation, methods of examination, and physiology of microorganisms; fermentation and decay; health.

Biology 318. Local Flora. (1-4-3)

Prerequisite: Biology 215.

Identification and classification of plants native to the area; trees in summer and winter condition and herbaceous species on basis of flower structure.

Biology 320. Basic Microtechniques. (0-4-2)

Prerequisites: Biology 209 or 215 and Chemistry 111.

Techniques for preparing plant and animal tissues for microscopic study; preparation of microscope slides; specific examples of slide making and other recommended techniques.

Biology 331. Human Anatomy. (3-0-3)

Prerequisite: Science 105.

Systematic approach to the study of the human organism with emphasis on gross morphology. Course will not be accepted as credit for the biology major.

Biology 332. Human Physiology. (3-0-3)

Prerequisite: Biology 331.

Physiology of the various systems of the human body as particularly related to exercise. Course will not be accepted as credit for the biology major.

Biology 334. Entomology. (2-2-3)

Prerequisite: Biology 209.

General structure of insects, life histories, common orders and families; insects in relation to man.

Biology 337. Comparative Anatomy. (2-4-4)

Prerequisite: Biology 209.

Vertebrate structure based on the recognition of morphological deviation in body plan and inter-relationships of systems and structural shape.

Biology 338. Vertebrate Embryology. (2-4-4)

Prerequisite: Biology 209.

Vertebrate development from gamete formation through the fetal stage with emphasis on comparative structural development. Basic studies in experimental embryology.

Biology 380. General Physiology. (2-2-3)

Prerequisites: Biology 209, 215, and Chemistry 112.

General aspects of the physiology of organisms from the cellular to organismic level. Respiration, nutrition, movement, excretion, irritability, and reproduction.

Biology 410G. Limnology. (0-4-2)

Prerequisites: Biology 209, 215, and Chemistry 112.

Characteristics of standing bodies of fresh water including the

physical, chemical, and biological aspects of ponds and lakes. Seasonal changes, thermocline activity, pressure effects and substrate effects on living forms.

Biology 413G. Plant Physiology. (2-2-3)

Prerequisites: Biology 215 and Chemistry 327 or its equivalent.

Study of diffusion, osmosis, cell wall and membrane structure, mineral nutrition, photosynthesis, respiration, macromolecules, photoperiodism, and other aspects of plant growth and development.

Biology 414G. Plant Pathology. (1-4-3)

Prerequisite: Biology 215.

Significance of plant diseases; classification of fungi; diseases caused by rusts, smuts, fleshy fungi, bacteria, and viruses; physiogenic diseases; principles and procedures in the control of plant diseases; resistant varieties and culture control.

Biology 415G. Food Microbiology. (1-4-3)

Prerequisite: Biology 217 or 317.

The microbiology of food production, food spoilage, and food-borne diseases.

Biology 417G. Advanced Bacteriology. (2-4-4)

Prerequisites: Biology 317 and Chemistry 112.

Bacteria, actinomycetes, and molds pathogenic of man; phenomena which characterize the infectious processes and host-parasite relationships.

Biology 418G. Pathogenic Microbiology. (2-2-3)

Prerequisite: Biology 217 or 317.

A study of microbial diseases of man and animals, and host responses to disease.

Biology 419G. Virology. (2-2-3)

Prerequisite: Biology 317, or consent of instructor.

The morphology and chemistry of the virus particle; symptoms, identification, and control of more common virus diseases of plants and animals; host-virus relationships; consideration of research and research methods concerned with viruses.

Biology 420G. Histology. (1-2-2)

Prerequisite: Biology 209.

Characteristics of tissues and organs of vertebrates.

Biology 425G. Animal Physiology. (2-2-3)

Prerequisites: Biology 209 and Chemistry 327 or its equivalent.

A comparison of the cellular physiology, neuromuscular dynamics, physiology of stress, respiratory physiology, circulation, excretion, endocrinology, and special senses of both vertebrate and invertebrate animals.

Biology 433G. Vertebrate Field Zoology. (1-4-3)

Prerequisite: Biology 209.

Methods of classifying animals; laws of nomenclature; use of keys in identification; habitats; and economic importance of the vertebrates of eastern Kentucky.

Biology 434G. Ichthyology and Herpetology. (1-4-3)

Prerequisite: Biology 209.

Anatomy, physiology, taxonomy, adaptations, and natural history of fishes, amphibians, and reptiles. Special emphasis will be given to groups common to eastern North America.

Biology 435G. Mammalogy. (1-4-3)

Prerequisite: Biology 209.

A study of the mammals of eastern North America with special emphasis on the mammals of southeastern North America. Specific studies will include taxonomy, adaptation, natural history, and the methods of skin preparation.

Biology 437G. Ornithology. (1-4-3)

Prerequisite: Biology 209.

Anatomy, physiology, classification, and identification of birds. Special emphasis will be given to life histories, feeding habits, nesting habits, migration, and economic importance of native species.

Biology 440G. General Parasitology. (1-4-3)

Prerequisite: Biology 209.

Study of protozoan, helminth, and arthropod parasites of man and domestic animals. Special emphasis will be given to etiology, epidemiology, methods of diagnosis, measures of control, and general life histories of parasites.

Biology 445G. Medical Entomology. (2-2-3)

Prerequisite: Biology 334, or permission of the instructor.

Study of arthropod vectors of diseases with special emphasis on insects of medical importance. Anatomy, physiology, identification, ecology and control measures of the more important vectors.

Biology 450G. Plant Anatomy. (2-2-3)

Prerequisite: Biology 215.

Gross and microscopic studies of the internal and external structures of vascular plants. The cell, meristem, cambium, primary body, xylem and phloem; roots, stems, and leaves; flowers and fruits, ecological anatomy.

Biology 451G. Plant Morphology. (2-2-3)

Prerequisite: Biology 215.

Study of fossil and living non-vascular plants (except bacteria) and vascular plants with emphasis on morphology, ecology, and evolution.

Biology 455G. Cytology. (2-2-3)

Prerequisites: Twelve hours of biology and Chemistry 112.

Study of cell morphology with a contemporary approach to principles of biochemistry, genetics and cell development. Basically a study of the cytoplasm, the nucleus, and nucleocytoplasmic relationships.

Biology 461G. Ecology. (2-4-4)

Prerequisites: Biology 209 and 215.

Qualitative and quantitative effects of present and past physical and biotic factors of the environment on living organisms; plant and animal populations; competition and interdependence of biotic forms. Numerous field trips required.

Biology 471. Seminar. (1-0-1)

Prerequisite: Senior Standing.

A seminar designed to give the student an opportunity to become familiar with the literature of biology, to work with indices and bibliographies in special fields; to give him an introduction to research and reporting techniques, and to deepen and broaden his scientific philosophy.

Biology 474G. Biological Techniques. (1-2-2)

Prerequisites: Biology 209 and 215.

Collecting, preserving, and caring for biological materials, rearing and culturing a variety of animals and plants used under laboratory and experimental conditions; construction and maintenance of laboratory equipment; basic principles and designs used in the experimental approach to the study of biology.

Biology 476. Special Problems. (One to three hours)

Prerequisites: Minimum of twenty hours in biology.

Designed to give the student an opportunity to do advanced work as a continuation of an earlier course and to introduce the student to individual research and scientific writing. Proposed topic for research must be approved prior to registration. Meeting times and credit hours will vary with the complexity of the problem.

Biology 490G. Cellular Physiology. (2-4-4)

Prerequisites: Biology 413G or 425G and Chemistry 327, or its equivalent. (Biochemistry and Calculus are recommended.)

Study of the generalized cell including a detailed treatment of the biochemistry and biophysics of the cell membranes; permeability, diffusion, and osmosis; carbohydrate, lipid, protein, and nucleic acid metabolism; respiration and terminal oxidation; energetics of the cellular processes.

Biology 495G. Biochemistry. (2-4-4)

Prerequisites: Chemistry 327 and permission of the instructor.

A review of the organic chemistry of carbohydrates, lipids, and proteins, followed by study of their intermediary metabolism; protein synthesis, enzymology, blood chemistry, bioenergetics, fluid electrolyte balance, vitamin and steroid chemistry.

Biology 501. Biological Concepts. (2-0-2)

Selected concepts from various biological sciences discussed with the particular aim of determining the impact of recent experimentation and discovery on basic biological principles. Offered every spring semester.

Biology 504. Modern Theories of Evolution. (2-0-2)

A consideration of the history of evolutionary thought; classical evidences of evolution; factors involved in speciation and the origin of higher groups. Offered in alternate fall semesters.

Biology 505. Biology of the Invertebrates. (1-4-3)

A detailed study of the major invertebrate phyla with special emphasis on their evolution, taxonomy, morphology, physiology, and ecology. Offered in alternate fall semesters.

Biology 506. Biology of the Vertebrates. (1-4-3)

A detailed study of the vertebrate classes with special emphasis on their evolution, taxonomy, morphology, physiology, and ecology. Local representatives will be thoroughly studied, and numerous field trips will be required. Offered in alternate spring semesters.

Biology 508. Taxonomy of Vascular Plants. (2-2-3)

Lecture and laboratory work concerned with the collection, preservation, and classification of vascular plants, with special emphasis on ecological adaptations and evolutionary trends. Offered on demand.

Biology 511. Radiation Biology. (1-2-2)

Study of radiation effects on living systems. The use of isotopes will be discussed with respect to techniques used in determining their various effects on biological systems. Offered once in every calendar year.

Biology 512. Speciation. (2-0-2)

Study of species concepts in terms of physiological, and neontological forms of reference, with morphological, physiological and ecological considerations; subspecies variation, clines, and reproductive isolation and capacity will be discussed. Offered in alternate fall semesters, or on demand.

Biology 515. Systematic Entomology. (1-4-3)

A systematic survey of all insect orders with emphasis on the classification of insects to family and beyond. Extensive practice in the use and construction of taxonomic keys. Offered on demand.

Biology 517. Mycology. (2-4-4)

Study of the morphology, taxonomy, and reproductive physiology of the fungi. Offered on demand.

Biology 520. Advanced Plant Physiology. (2-2-3)

Prerequisites: Biology 413G or 490G, Chemistry 327, and Physics 132; (Calculus recommended.)

Study of the physiology and biochemistry of green plants with detailed studies of respiratory metabolism, photosynthesis, nitrogen metabolism, terminal oxidation, and energy relationships of the cell. Offered on demand.

Biology 525. Advanced Genetics. (3-0-3)

Study of the history of Mendelian genetics followed by the mechanics of inheritance, gene action, development genetics, population genetics, and evolution. Offered on demand.

Biology 530. Endocrinology. (2-2-3)

Introductory study of the functions of endocrine glands; a review of the embryological development and histological characteristics of the endocrine glands. Offered on demand.

Biology 532. Reproductive Physiology. (2-2-3)

Study of the physiological processes of reproduction in domestic animals and man. Emphasis will be placed on gonadal functions, endocrine relationships, and fertility problems. Offered on demand.

Biology 540. Advanced Parasitology. (1-4-3)

An advanced course for those who elect to pursue the study of parasites other than those belonging to the phylum Arthropoda. The course will offer a comprehensive study of the etiology, epidemiology, pathology, diagnosis prophylaxis, and control of parasitic protozoans, cestodes, trematodes, and nematodes. Offered on demand.

Biology 571. Seminar. (1-0-1)

Prerequisite: Twelve hours graduate work in biology.

Student and/or faculty reports on individual research, technical papers in scientific journals, recent developments in biology, scientific meetings, or other significant problems in biology. Required of all graduate students in biology. Offered every fall semester, or on demand.

Biology 576. Research Problems. One to three hours.

Prerequisite: Undergraduate minor in biology, or its equivalent.

Independent research in biology. Open only to qualified graduate students seeking an advanced degree other than the Master of Science in Biology. Meeting times and credit hours will vary with the complexity of research problem selected, and problem must be approved prior to registration. Offered on demand.

Biology 599. Thesis. One to six hours.

Research and thesis writing. Varying portions of the total credits may be elected to best fit student schedules. Divisional permission required. Offered every semester.

Chemistry

Requirements:

For an Area of Concentration in Science (Emphasis on Chemistry):

Chemistry 111, 112, and sixteen additional hours in Chemistry -----	24
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Additional requirements for an Area of Concentration:

Biology 208, 209, 215, and three hours elective in advanced biology -----	13
Physics 131, 132, and 350 -----	12
Earth Science 100 -----	3
Mathematics 141 and 152 (or their equivalent) -----	6

For a Major (For students who wish to qualify as high school teachers of chemistry but who do not expect to do graduate work in the field.) Sem. Hrs.

Chemistry 111, 112, 222, 223, 326, 327, 340, 350, and 471 -----	32
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Students who are majoring in chemistry are required to earn the following credits in physics and mathematics:

Mathematics 141 and 152 (or their equivalent) -----	6
Physics 131 and 132 (or their equivalent) -----	8

For a Minor

Chemistry 111, 112, and thirteen hours in advanced chemistry -----	21
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For a Major (For those students planning to pursue graduate studies in Chemistry.)

Chemistry 111, 112, 222, 223, 330, 331, 332, 350, 441, 442, 450, 460, 471 plus one course chosen from Chemistry 351, 476, 490 -----	47-49
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Additional requirements:

Mathematics 175, 275, 276 -----	12
Physics 231, 232 -----	10
German 101, 102, (May be used to satisfy 6 hours of the General Education requirements) -----	6
Science 105 -----	3
Biology 495 or one approved mathematics or physics course -----	3-4

Note: The curriculum above meets the requirements of the American Chemical Society.

SUGGESTED PROGRAMS

The following programs have been devised to help students in selecting their courses and making their schedules. Close adherence to these suggested programs will aid the student in meeting the requirements for graduation.

Bachelor of Science Degree with a Major in Chemistry (Non-Teaching)

FRESHMAN YEAR

First Semester			Second Semester		
Eng.	101—Composition I	3	Eng.	102—Composition II	3
P.E.	—Activity course	1	P.E.	—Activity course	1
Chem.	111—General Chemistry I	4	Chem.	112—General Chemistry II	4
Math.	175—Anal. Geom. and Calculus I	4	Math.	275—Anal. Geom. and Calculus II	4
Ger.	101—Beginning German Military (Men)	3	Ger.	102—Beginning German Military (Men)	3
	or			or	
	Elective (Women)	2		Elective (Women)	2
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17			17		

SOPHOMORE YEAR

First Semester			Second Semester		
Eng.	202—Intro. to Literature	3	Chem.	330—Intro. to Phys. English Elective	3
Math.	276—Anal. Geom. and Calculus III	4	Chem.	223—Quantitative Analysis Org. Chem.	2
Chem.	222—Qualitative Analysis Social Sci. Elective	4	Hith.	150—Personal Health Military (Men)	2
	Military (Men)	3		or	
	or			Elective (Women)	2
	Elective (Women)	2	<hr/>		
<hr/>			16		

JUNIOR YEAR

First Semester			Second Semester		
Chem.	331—Organic Chemistry I	4	Chem.	332—Organic Chemistry II	4
Chem.	441—Physical Chemistry I	4	Chem.	442—Physical Chemistry II	4
Phys.	231—Gen. Col. Physics I	5	Phys.	232—Gen. Col. Physics II	5
Phy.	153—General Psychology	3	S.S.	300—Current World Problems	3
<hr/>			<hr/>		
16			16		

SENIOR YEAR

First Semester			Second Semester		
Chem.	450—Org. Qual. Analysis	4	Hist.	400—American Foundations	3
Chem.	460—Instrumental Analysis	3	Chem.	471—Seminar	1
	Electives	9	Chem.	476—Special Problems	3
<hr/>				Electives	9
<hr/>			<hr/>		
16			16		

Provisional High School Certificate with a Major in Chemistry

FRESHMAN YEAR

First Semester			Second Semester		
Eng.	101—Composition I	3	Eng.	102—Composition II	3
Math.	152—College Algebra	3	Math.	141—Plane Trigonometry	3
Chem.	111—General Chemistry I	4	Chem.	112—General Chemistry II	4
E.S.	100—Physical Geology	3	Ed.	100—Orientation in Education	1
			Psy.	153—General Psychology	3
			P.E.	—Activity Course	1
				Military (Men)	
				or	
				Elective (Women)	2
Hith.	150—Personal Health Military (Men)	2	<hr/>		
	or		17		
	Elective (Women)	2	<hr/>		
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SOPHOMORE YEAR

First Semester		Second Semester	
Eng. 202—Intro. to Literature	3	Humanities or Com. Elective	3
Chem. 222—Qualitative Analysis	4	Chem. 223—Quantitative Analysis	4
Ed. 210—Human Gr. and Develop. I	3	Social Science Elective	3
Phys. 131—Elementary Physics I	4	Phys. 132—Elementary Physics II	4
Military (Men)		Military (Men)	
or	2	or	2
Elective (Women)		Elective (Women)	
	16		16

JUNIOR YEAR

First Semester		Second Semester	
Chem. 326—Organic Chemistry I	4	Chem. 327—Organic Chemistry II	4
Chem. 340—Intro. to Physical Chem.	4	Chem. 350—Inorganic Chemistry I	3
Humanities or Com. Elective	3	Ed. 300—Intro. to Student Teach.	1
Social Science Elective	3	S.S. 300—Current World Problems	3
Elective	3	Elective	6
	17		17

SENIOR YEAR

First Semester		Second Semester	
Hist. 400—American Foundations	3	Ed. 477—Professional Semester	15
Chem. 471—Seminar	1	(The Professional Semester may be taken either semester of the senior year)	
Humanities or Com. Elective	3		
Elective	8		
	15		15

DESCRIPTION OF COURSES

NOTE: (3-2-4) means 3 hours class, 2 hours laboratory, 4 hours credit.

Chemistry 101. General Chemistry I. (Home Economics & Nursing). (3-2-4)

An introduction to chemistry showing the relationship of chemistry to home economics and nursing. A study of atomic theory, oxygen, hydrogen, metals, non-metals, acids, bases, salts, and periodic arrangement of the elements.

Chemistry 102. General Chemistry II. (Home Economics & Nursing). (3-2-4)

Prerequisite: Chemistry 101.

Continuation of Chemistry 101. Major emphasis on introduction to organic chemistry and topics relating to foods, nutrition, and textiles.

Chemistry 111. General Chemistry I. (2-4-4)

Prerequisite: Working knowledge of algebra.

An introduction to chemistry including atomic structure, periodic relations, and electronic structure. The states of matter, gas laws, and introduction to the properties of solutions.

Chemistry 112. General Chemistry II. (2-4-4)

Prerequisite: Chemistry 111.

Continuation of Chemistry 111. Kinetics, equilibria, electrochemistry, and the descriptive chemistry of selected groups of elements. Laboratory work will include an introduction to qualitative analysis.

Chemistry 222. Qualitative Analysis. (1-6-4)

Prerequisites: Chemistry 112, Mathematics 152, and ability to use a slide rule.

Principles and practices of anion and cation analysis.

Chemistry 223. Quantitative Analysis. (1-6-4)

Prerequisite: Chemistry 222 or permission of the instructor.

Principles and practices of volumetric analysis including electro-metric titrations.

Chemistry 326. Organic Chemistry I. (For chemistry teaching majors and non-majors). (2-4-4)

Prerequisite: Chemistry 112.

The chemistry of homologous series of alkanes, alkenes, and alicyclic compounds with one or more functional groups. Physical measurements will be correlated to reactivity and molecular structure. Properties of organic molecules related to drugs and biological specificity will be emphasized.

Chemistry 327. Organic Chemistry II. (For chemistry teaching majors and non-majors). (2-4-4)

Prerequisite: Chemistry 326.

A continuation of Chemistry 326. Chemistry of benzenoid and similar molecules. Functional group interconversions, electrophilic aromatic substitution, proteins, carbohydrates, and lipid structures will be stressed.

Chemistry 330. Introductory Physical Organic Chemistry. (2-0-2)

Prerequisites: Chemistry 222, Mathematics 275, and Physics 231.

Structure, dipole moments, spectra, and electron delocalization of organic molecules. Reaction rates, energetics of organic reactions, and kinetics.

Chemistry 331. Organic Chemistry I. (2-4-4)

Prerequisite: Chemistry 330.

Organic stereochemistry, reactive intermediates, conformational analysis, and studies of mechanisms of formation of various functional groups.

Chemistry 332. Organic Chemistry II. (2-4-4)

Prerequisite: Chemistry 331.

Principles of organic synthesis; the carbonyl functional groups, aromaticity, structure studies of mono and polysaccharides and proteins, and heterocyclic chemistry.

Chemistry 340G. Introduction to Physical Chemistry. (For chemistry teaching majors). (3-2-4)

Prerequisite: Chemistry 223 or 327.

A non-calculus approach to the concepts of physical chemistry. Designed primarily for the high school teacher; thermodynamics, concepts of work, internal energy, free energy, entropy, equilibria, and electromotive force.

Chemistry 350. Inorganic Chemistry I. (3-0-3)

Prerequisites: Chemistry 223 and 340 or 441.

Modern theories of electronic structure and bonding in inorganic compounds. Physical properties related to structure and acid-base theories.

Chemistry 351. Inorganic Chemistry II. (2-2-3)

Prerequisite: Chemistry 350.

Chemistry of the elements with emphasis on complex ion and transition metal chemistry. Introduction to non-aqueous solvents.

Chemistry 441. Physical Chemistry I. (3-2-4)

Prerequisites: Chemistry 223, 330; Mathematics 275; Physics 132 or 232.

Laws governing gases, liquids, and solids; laws of thermodynamics, properties of solutions, thermochemistry; equilibria and electrochemistry.

Chemistry 442. Physical Chemistry II. (3-2-4)

Prerequisite: Chemistry 441; Co-requisite: Mathematics 276.

Chemical kinetics, quantum theory, molecular structure, and nuclear chemistry.

Chemistry 450G. Qualitative Organic Analysis. (2-4-4)

Prerequisite: Chemistry 332.

Qualitative analysis of organic compounds, i.e., the identification of "unknown" compounds of organic substances, and the chemical theory underlying such identifications, as well as specialized physical and chemical methods. The course is designed to encourage greater maturity of thought toward typical organic analytical problems and

to introduce the student to laboratory work of semi-independent nature.

Chemistry 460G. Instrumental Analysis. (1-4-3)

Prerequisites: Chemistry 331 and 441; Physics 232.

Theory and practice of instrumental analysis. Opticometric and electrometric methods.

Chemistry 471. Seminar. (1-0-1)

Prerequisite: Senior standing.

This seminar is designed to give the student an opportunity to become familiar with the literature in chemistry; to work with indices and bibliographies in special fields, to give the student an introduction to research, and to bring together certain phases of chemistry.

Chemistry 476. Special Problems. (Two to four credit hours.)

Prerequisites: Chemistry 332, 350, and 442, and consent of instructor.

To give the student an opportunity to do advanced work as a continuation of an earlier course and to introduce him to individual research. The topic will be selected prior to registration. Credit will vary with the problem.

Chemistry 490G. Advanced Physical Organic Chemistry. (2-0-2)

Prerequisites: Chemistry 332 and 442.

Steric and electronic effects on reactivity of organic molecules; calculations in molecular-orbital and valence-bond theories, molecular rearrangements, and transition state theory.

Geosciences

Requirements:

<i>Earth Science Major:</i>	Sem. Hrs.
Earth Science 100, 101, 200, 250, 400, and 471 -----	16
Agriculture 211 -----	3
Geography 390 -----	3
Electives in earth science approved by the department -----	9
Minimum for a Major -----	<hr/> 31

Students who are majoring in earth science are required to earn credits in the following science and mathematics courses:

Science 105 -----	3
Biology 208 -----	3
Mathematics 141 and 152 (or their equivalent) ---	6
Any three courses selected from the following:	
Chemistry 111-112; Physics 131-132, or 231-232---	12

Earth Science Minor (For high school certification the earth science minor must be taken in conjunction with a major or minor in another science or mathematics):

Earth Science 100, 101, 200, and 400 -----	12
Geography 390 -----	3
Electives in earth science approved by the department -----	6
Minimum for a Minor -----	21

Additional requirements for the Earth Science Minor:

Science 105 -----	3
Biology 208 -----	3
Mathematics 141 and 152 (or their equivalent) ---	6
Any three courses selected from the following:	
Chemistry 111-112; Physics 131-132, or 231-232---	12

It is recommended that students majoring or minoring in either geology or earth science elect biology, chemistry, mathematics, or physics as major or minor fields.

Note: The geology and earth science majors or minors cannot be taken in conjunction with one another.

Geology Major: (For students desiring to pursue graduate work in geology, or to seek professional careers in industry, state, or federal agencies).

Earth Science 100, 101, 215, 260, 261, 300, 325, 377, 378, 400, and 471 -----	31
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Students who are majoring in geology are required to earn credits in the following science and mathematics courses:*

Science 105	3
Biology 208	3
Chemistry 111 and 112	8
Mathematics 141 and 152 (or their equivalent)	6
Physics 131 and 132, or Physics 231 and 232	8-10

*It is further recommended that students majoring in geology and desiring to pursue graduate study, take one year of a foreign language (French, German, or Russian) and Mathematics 175 or its equivalent.

Geology Minor: (Will not qualify for high school certification).

Earth Science 100, 101, 215, 250 and 325	15
Electives in earth science approved by the department	6
Minimum for a Minor	21

Students who are minoring in geology are required to earn credits in the following science and mathematics courses:

Science 105	3
Biology 208	3
Mathematics 141 and 152 (or their equivalent)	6
Any three courses selected from the following: Chemistry 111-112; Physics 131-132, or 231-232	12

SUGGESTED PROGRAMS

The following programs have been devised to help students in selecting their courses and in making their schedules. Close adherence to these suggested programs will aid the student in meeting the requirements for graduation.

Bachelor of Science Degree with a Major in Geology (Non-Teaching)

FRESHMAN YEAR

First Semester		Second Semester	
Eng. 101—Composition I	3	Eng. 102—Composition II	3
Math. 152—College Algebra	3	Math. 141—Plane Trigonometry	3
E.S. 100—Physical Geology	3	E.S. 101—Historical Geology	3
Chem. 111—General Chemistry I	4	Ch. m. 112—General Chemistry II	4
P.E. —Activity course	1	Hlth. 150—Personal Health	2
Military (Men)		Military (Men)	
or		or	
Elective (Women)	2	Elective (Women)	2
	<hr/> 16		<hr/> 17

SOPHOMORE YEAR

First Semester			Second Semester		
Eng.	202—Intro. to Literature	3		English Elective	3
Sci.	105—Intro. to Biological Sci.	3	Biol.	208—Invertebrate Zoology	3
Psy.	153—General Psychology	3	E.S.	261—Mineralogy II	3
E.S.	260—Mineralogy I	3	E.S.	215—Adv. Hist. Geology	3
	Social Science Elective	3	P.E.	—Activity course	1
	Military (Men)			Military (Men)	2
	or	2		or	
	Elective (Women)			Elective (Women)	2
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17			15		

JUNIOR YEAR

First Semester			Second Semester		
Phys.	131—Elementary Physics I	4	Phys.	132—Elementary Physics II	4
E.S.	300—Petrology	3	E.S.	325—Structural Geology	3
E.S.	377—Inv. Paleontology I	3	E.S.	378—Inv. Paleontology II	3
	Social Sci. Elective	3		Elective	6
	Elective	3	<hr/>		
16			16		

SENIOR YEAR

First Semester			Second Semester		
S.S.	300—Current World Problems	3	Hist.	400—American Foundations	3
E.S.	400—Field Geology	3	E.S.	471—Seminar	1
	Elective	9		Elective	12
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15			16		

Provisional High School Certificate with a Major in Earth Science

FRESHMAN YEAR

First Semester			Second Semester		
Eng.	101—Composition I	3	Eng.	102—Composition II	3
Math.	152—College Algebra	3	Math.	141—Plane Trigonometry	3
Sci.	105—Intro. to Biological Sci.	3	E.S.	100—Physical Geology	3
Chem.	111—General Chemistry I	4	Chem.	112—General Chemistry II	4
Hith.	150—Personal Health	2	P.E.	—Activity course	1
	Military (Men)		Ed.	100—Orientation in Education	1
	or	2		Military (Men)	2
	Elective (Women)			or	
				Elective (Women)	2
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17			17		

SOPHOMORE YEAR

First Semester			Second Semester		
Eng.	202—Intro. to Literature	3	Ed.	210—Human Gr. and Develop. I	3
E.S.	101—Historical Geology	3	E.S.	211—Soils	3
Psy.	153—General Psychology	3	Biol.	208—Invertebrate Zoology	3
Phys.	131—Elementary Physics I	4	Phys.	132—Elementary Physics II	4
	Military (Men)		P.E.	—Activity course	1
	or	2		Military (Men)	2
	Elective (Women)			or	
				Elective (Women)	2
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15			16		

JUNIOR YEAR

First Semester			Second Semester		
S.S.	300—Current World Problems	3	Ed.	300—Intro. to Student Teach.	1
E.S.	200—Descriptive Astronomy	3	E.S.	—Advanced Electives	6
E.S.	250—Rocks and Minerals	3		Social Science Elective	3
	Social Science Elective	3		Elective	6
	Elective	4	<hr/>		
16			16		

SENIOR YEAR

First Semester			Second Semester		
Hist.	400—American Foundations	3	Ed.	477—Professional Semester	15
E.S.	400—Field Methods	3		(The Professional Semester may be taken either semester of the senior year)	
E.S.	390—Climatology	3			
E.S.	—Advanced Elective	3			
	Elective	4			
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16			15		

DESCRIPTION OF COURSES

NOTE: (3-2-4) means 3 hours class, 2 hours laboratory, 4 hours credit.

Earth Science 100. Physical Geology. (2-2-3)

A study of the natural forces acting upon and within the earth's crust; weathering, erosion, vulcanism, diastrophism. Laboratory involves studies of common minerals and rocks, and topographic maps. Field trips required.

Earth Science 101. Historical Geology. (2-2-3)

Prerequisite: Earth Science 100.

Physical events in the earth's history with emphasis upon the structure and sedimentation facies of each major structural unit. Introduction to the fossil record from the beginning of the rock record to the present. Field trips required.

Earth Science 200. Descriptive Astronomy. (3-0-3)

A non-mathematical presentation of methods and results of astronomical exploration of the solar system, our stellar system, and the galaxies.

Earth Science 211. Soils. (3-0-3). (Also Agriculture 211)

Prerequisite: Chemistry 111.

Origin, formation, composition, and classification of soils; physical, chemical, and biological properties of soils in relation to plant growth; principles of soil management, conservation, and land use.

Earth Science 214. Geological History of Plants and Animals. (2-2-3)

(Credit for this course is restricted to students majoring in Biology or taking an area of concentration with emphasis on Biology.)

Prerequisite: Biology 208 or permission of instructor.

A course designed for biology students in which the major emphasis will be placed on the evolutionary history of both plants and animals throughout the geological time scale. Ancestors of modern day fauna and flora will be traced from their common origins

and a brief discussion of physical factors affecting their dispersal and distribution through time and space.

Earth Science 215. Advanced Historical Geology. (2-2-3)

Prerequisite: Earth Science 101.

History of the fossil record including dispersal and distribution of plants and animals through time and space; lithology, thickness, distribution, fossils, and time relations of the stratified rocks of North America. Field trips required.

Earth Science 250. Minerals and Rocks. (2-2-3)

(Geology majors and minors will not receive credit for this course.)

Prerequisite: Earth Science 100.

Principal rock-forming and economic minerals and their occurrence. Laboratory involves the identification of common minerals by their physical properties, and the study and classification of rocks.

Earth Science 260. Mineralogy I. (1-4-3)

Prerequisite: Earth Science 100 and Chemistry 112.

Methods of identifying and classifying minerals by their physical and chemical properties, and their geologic relations. Crystal models, crystals, and chemical methods are studies in the laboratory.

Earth Science 261. Mineralogy II. (1-4-3)

Prerequisite: Earth Science 260.

Continuation of Earth Science 260 with a systematic survey of common mineral groups.

Earth Science 300. Petrology. (2-2-3)

Prerequisite: Earth Science 261.

Modes of occurrence and the origin of rocks in relation to geologic processes, with emphasis on the methods of identifying and classifying rocks.

Earth Science 301. Economic Geology I. (Metals) (3-0-3)

Prerequisite: Earth Science 261.

Principles and processes of formations and occurrence of metal ore deposits.

Earth Science 302. Economic Geology II. (Non-metals) (3-0-3)

Prerequisite: Earth Science 261 and 300.

Principles and processes of formations and occurrence of non-metal deposits.

Earth Science 325. Structural Geology. (2-2-3)

Prerequisites: Earth Science 101 and Mathematics 141 (or its equivalent), or permission of instructor.

Principles, methods, and techniques of investigating and interpreting the architecture of the rocks of the earth.

Earth Science 350. Geomorphology. (2-2-3)

Prerequisite: Earth Science 101 or permission of instructor.

Geological processes which shape our land surfaces as determined by topographic form and geological history. Special emphasis on the interpretation of regional land forms and significant geologic features in Kentucky. Field trips required.

Earth Science 377. Invertebrate Paleontology I. (2-2-3)

Prerequisites: Earth Science 215 and Biology 208, or permission of instructor.

Invertebrate animals of the geologic past; morphology, classification, paleoecology, and stratigraphic succession. Field trips required.

Earth Science 378. Invertebrate Paleontology II. (2-2-3)

Prerequisite: Earth Science 377.

Continuation of Earth Science 377. Field trips required.

Earth Science 379G. Vertebrate Paleontology. (2-2-3)

Prerequisite: Biology 208 or permission of instructor.

The Phylum Chordata as represented by the fossil record with emphasis on the Subphylum Vertebrata.

Earth Science 380G. Introduction to Paleobotany. (2-2-3)

Prerequisites: Earth Science 214 and Biology 215 or permission of instructor.

The fossil plant kingdom with discussion of their origin, morphology, and distribution throughout the geologic time scale. Laboratory studies will involve methods of investigating fossil plants and preparing specimens.

Earth Science 381. Stratigraphy and Sedimentation. (1-4-3)

Prerequisites: Earth Science 215 and 300.

An introduction to advanced stratigraphy with consideration of sedimentary rocks, their properties and classification, and the processes and environments which they represent.

Earth Science 390G. Climatology. (3-0-3) (Also Geography 390G)

Introduction to the physical elements of weather and climate;

classifications of types and distributions with particular reference to the effects of climate on the earth's physical and cultural landscapes.

Earth Science 400. Field Methods. (1-4-3)

Prerequisites: At least 15 hours of earth science and permission of instructor.

Methods of field techniques used to solve geologic problems; collecting and labelling of samples; measurement of stratigraphic sections. Field trips required.

Earth Science 410G. Introduction to Geophysics. (2-2-3)

Prerequisite: Earth Science 325; Physics 132 or 232.

Geophysical methods and applications in solving geological problems; limitations and advantages of each method in geophysical prospecting and interpretation of data.

Earth Science 413G. Micropaleontology. (2-2-3)

Prerequisite: Earth Science 214 or 378.

Collection, preparation, and classification of microfossils and a study of their significance to stratigraphy and paleoecology.

Earth Science 415. History of Geology. (2-0-2)

Prerequisites: Twelve hours of earth science and junior standing, or permission of instructor.

Important men and their contributions to the development of the geological sciences.

Earth Science 420G. Optical Mineralogy. (2-2-3)

Prerequisites: Earth Science 261 and Physics 132 (or equivalent).

An introduction to the polarizing microscope and its application in the study of transparent minerals. Systematic study of major mineral groups based largely on optical properties.

Earth Science 421G. Petrographic Methods. (2-2-3)

Prerequisite: Earth Science 420G.

Description and classification of rocks from information obtained by the study of thin sections with polarized light.

Earth Science 425G. Petroleum Geology. (2-2-3)

Prerequisites: Earth Science 215 and 325.

History and development of the petroleum industry and procedures in understanding source, migration, and accumulation of oil and gas.

Earth Science 471. Seminar. (1-0-1)

Prerequisite: Senior standing.

This seminar is designed to give the student an opportunity to become familiar with the literature in the geosciences, and to gain experience in presenting research papers.

Earth Science 476. Special Problems. (One to three hours)

Prerequisites: Eighteen hours in earth science and permission of instructor.

To provide interested and qualified students an opportunity for individual research. Problem must be approved prior to registration.

Mathematics

STATEMENT REGARDING PLACEMENT IN MATHEMATICS

Students who have credit for courses in mathematics equivalent to Mathematics 141 and 152, or Mathematics 165, or a more advanced course in mathematics are excused from taking the Mathematics Placement Examination. All other students are required to take the Mathematics Placement Examination prior to enrollment in Mathematics 141, 152, 165, or 175. This examination is administered to entering freshmen (as a group) at the beginning of each school term or it may be taken by individuals at any time at the office of the testing bureau. The purpose of the examination is to determine the level of mathematical maturity of a student enabling him to begin the study of mathematics at the highest level his background and achievement warrant.

Requirements:

For an Area of Concentration in Mathematics (Non-Teaching):

	Sem. Hrs.
Mathematics 175, 275, 276, 310, 350, 351, and 471 ----	22
To be selected from Mathematics 304, 355, 410, 420, 472, 485, 486, and 490 -----	14
Elective in biology -----	3
Elective in physical science (other than Science 103) --	3
Elective in science -----	6
Foreign language—French, German, or Russian -----	6
A minimum of 21 hours in a related field approved by the Head of the Department -----	21

Recommendation: Students who plan to pursue graduate study in mathematics, or to seek employment as an industrial mathematician, should complete the Area of Concentration in Mathematics.

For a Major (Non-Teaching):

Mathematics 175, 275, 276, and 471	13
Electives in mathematics above the 300-level as approved by the department	21
One of the following alternatives—	
Physics 231 and 232	10
or	
Physics 131 and 132 and three or four additional hours in science as approved by the department..	11-12

A minimum of twelve hours of credit in science is required in this program.

For a Major (Teaching):

	Sem.	Hrs.
Mathematics 175, 275, 276, and 471		13
Electives in mathematics above the 300-level as approved by the department		17
		<hr/>
		30

For a Minor:

Mathematics 175, 275, and 276	12
Electives in mathematics above the 300-level as approved by the department	9
	<hr/>
	21

For an Elementary Education Minor in Mathematics:

Mathematics 141 and 152 or 165	5-6
Mathematics 175, 231, and 232	10
Elective in mathematics approved by the department..	3
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	18-19

SUGGESTED PROGRAMS

The following programs have been devised to help students in selecting their courses and making their schedules. Close adherence to these suggested programs will aid in meeting all requirements for graduation.

Area of Concentration in Mathematics (Non-Teaching)

FRESHMAN YEAR

First Semester			Second Semester		
Eng.	101—Composition I	3	Eng.	102—Composition II	3
P.E.	—Activity course	1	Psy.	153—General Psychology	3
Math.	111—Slide Rule	1	Math.	275—Anal. Geom. and Cal. II	4
Math.	175—Anal. Geom. and Cal. I	4		Foreign Language	3
	Foreign Language	3	Hlth.	150—Personal Health	2
	Social Science Elective	3		Military (Men)	
	Military (Men)	2		or	
	or			Elective (Women)	2
	Elective (Women)				
		<hr/> 17			<hr/> 17

SOPHOMORE YEAR

First Semester			Second Semester		
Eng.	202—Intro. to Literature	3		English Elective	3
Math.	276—Anal. Geom. and		Math.	310—Calculus IV	3
	Calculus III	4	Sci.	105—Intro. to Biological Sci.	3
	Elect. in Phys. Sci.			Related Field	3
	other than 103	3		Elective	3
	Related Field	3		Military (Men)	
P.E.	—Activity course	1		or	
	Military (Men)	2		Elective (Women)	2
	or				
	Elective (Women)				
		<hr/> 16			<hr/> 17

JUNIOR YEAR

First Semester			Second Semester		
Math.	350—Intro. to Higher Algebra I	3	Math.	351—Intro. to Higher Algebra II	3
	Mathematics above 300	3		Mathematics above 300	3
	Related Field	3		Related Field	3
S.S.	300—Current World Problems	3		Science Elective	3
	Science Elective	3		Social Science Elective	3
		<hr/> 15			<hr/> 15

SENIOR YEAR

First Semester			Second Semester		
Math.	471—Seminar	1		Mathematics above 300	3
	Mathematics above 300	6		Related Field	3
	Related Field	6		Elective	9
Hist.	400—American Foundations	3			
		<hr/> 16			<hr/> 15

Provisional High School Certificate with a Major in Mathematics

FRESHMAN YEAR

First Semester			Second Semester		
Eng.	101—Composition I	3	Eng.	102—Composition II	3
Math.	175—Anal. Geom. and Cal. I	4	Math.	275—Anal. Geom. and Cal. II	4
Psy.	153—General Psychology	3	Ed.	100—Orientation in Education	1
Hlth.	150—Personal Health	2	P.E.	—Activity course	1
	Social Science	3		Social Science	3
	Military (Men)		Sci.	105—Intro. to Biological Sci.	3
	or			Military (Men)	
	Elective (Women)	2		or	
				Elective (Women)	2
		<hr/> 17			<hr/> 17

SOPHOMORE YEAR

First Semester				Second Semester			
Eng.	202—Intro. to Literature	3			Humanities or Com. Elec.	3	
Phys.	131—Elementary Physics I	4		Sci.	132—Elementary Physics II	4	
Math.	276—Anal. Geom. and Cal. III	4			Mathematics above 300	3	
	Humanities or Com. Elec.	3		Ed.	210—Human Gr. and Develop. I	3	
	Military (Men)			P.E.	—Activity course	1	
	or	2			Military (Men)		
	Elective (Women)				or	2	
					Elective (Women)		
		16				16	

JUNIOR YEAR

First Semester				Second Semester			
S.S.	300—Mathematics above 300	6			Mathematics above 300	6	
	Current World Problems	6		Ed.	100—Intro. to Student Teach.	1	
	Elective				Humanities or Com. Elec.	6	
		15			Elective	6	
						16	

SENIOR YEAR

First Semester				Second Semester			
Math.	471—Seminar	1		Ed.	477—Professional Semester	15	
	Mathematics above 300	3			(The Professional Semester may be taken either semester of the senior year)		
Hist.	400—American Foundations	3					
	Elective	9					
		16				15	

Bachelor of Science Degree with a Major in Mathematics
(Non-Teaching)

FRESHMAN YEAR

First Semester				Second Semester			
Eng.	101—Composition I	3		Eng.	102—Composition II	3	
P.E.	—Activity course	1		Hlth.	150—Personal Health	2	
Math.	175—Anal. Geom. and Cal. I	4		Math.	275—Anal. Geom. and Cal. II	4	
Psy.	153—General Psychology	3			Social Science Elective	3	
	Social Science Elective	3		Sci.	105—Intro. to Biological Sci.	3	
	Military (Men)				Military (Men)		
	or	2			or	2	
	Elective (Women)				Elective (Women)		
		16				17	

SOPHOMORE YEAR

First Semester				Second Semester			
Eng.	202—Intro. to Literature	3			English Elective	3	
Math.	276—Anal. Geom. and Cal. I	4			Mathematics above 300	6	
Phys.	131—Elem. Physics I	4-5		Phys.	131—Elem. Physics II	4-5	
or				or			
Phys.	231—General College Physics I	3		Phys.	232—General College Physics II	1	
	Elective			P.E.	—Activity course	1	
	Military (Men)	2			Military (Men)		
	or				or	2	
	Elective (Women)				Elective (Women)		
		16-17				16-17	

JUNIOR YEAR

First Semester				Second Semester			
S.S.	300—Mathematics above 300	3			Mathematics above 300	3	
	Current World Problems	3			Science Elective	3	
	Elective	9			Elective	9	
		15				15	

SENIOR YEAR			
	First Semester		Second Semester
Math. 471—Seminar	1	Mathematics above 300	6
	3	Elective	10
Hist. 400—American Foundations	3		
Elective	9		
	<hr/> 16		<hr/> 16

DESCRIPTION OF COURSES

NOTE: (3-2-4) means 3 hours class, 2 hours laboratory, 4 hours credit.

Mathematics 111. Slide Rule. (1-0-1)

(Credit in this course will not be accepted on the mathematics requirement for a degree.)

Multiplication; division; combined operations; powers and roots; ratio and proportions; trigonometric functions; reciprocals; powers of numbers using Log scales; applications.

Mathematics 121. Introduction to Statistics. (2-0-2)

(Credit in the course will not be accepted on the mathematics requirements for a degree.)

Basic concepts of probability, sampling, and the algebra of events. Investigation into the properties of selected discrete and continuous distributions.

Mathematics 131. General Mathematics I. (3-0-3)

Sets and natural numbers; the arithmetic and algebra of integers and rational numbers; first-degree equations and inequalities; equations with two variables; further extension of the number system; polynomials; ratio, proportion, and variation.

Mathematics 132. General Mathematics II. (3-0-3)

Prerequisite: Mathematics 131.

Relations, functions, and graphs, basic trigonometry, logarithms; compound interest and annuities; permutations, combinations, and probability; mathematical induction and the binomial theorem; some topics in statistics; binomial and normal distributions.

Mathematics 141. Plane Trigonometry. (3-0-3)

Prerequisite: Mathematics 132 or consent of the Mathematics Placement Examination Committee. (A sufficiently high score on the Mathematics Placement Examination entitles a student to choose a more advanced course.)

Trigonometric functions; right triangles; law of sines, law of cosines; trigonometric identities; radian measure; inverse functions; logarithms; oblique triangles.

Mathematics 152. College Algebra. (3-0-3) or (5-0-3)

Prerequisite: Consent of Mathematics Placement Examination Committee. (A sufficiently high score on the Mathematics Placement Examination entitles a student to choose a more advanced course.)

Set theory; field and order axioms; special products and factoring; solution of linear, quadratic, and higher degree equations; exponents and radicals; variations; logarithms; progressions.

Mathematics 165. Algebra-Trigonometry. (5-0-5)

Prerequisite: Consent of the Mathematics Placement Examination Committee.

Algebra and trigonometry for those students who have a good background in algebra and trigonometry but require a serious review before beginning calculus.

Mathematics 175. Analytic Geometry and Calculus I. (4-0-4)

Prerequisites: Satisfactory score on the Mathematics Placement Examination, or Mathematics 141 and 152, or Mathematics 165.

Functions and graphs; linear equalities and inequalities; limits and continuity; differentiation and its applications; the definite integral.

Mathematics 231. Basic Mathematics I. (3-0-3)

(For elementary teachers.)

Number systems; sets; primes and divisibility; fractions.

Mathematics 232. Basic Mathematics II. (3-0-3)

(For elementary teachers.)

Prerequisite: Mathematics 231.

Algebraic sentences; real numbers; geometry of measurement; mathematical systems; methods of presentation of mathematical concepts.

Mathematics 275. Analytic Geometry and Calculus II. (4-0-4)

Prerequisite: Mathematics 175.

Conics and the line trigonometric and exponential functions; parametric equations; polar co-ordinates; plane vectors; methods and applications of integration.

Mathematics 276. Analytic Geometry and Calculus III. (4-0-4)

Prerequisite: Mathematics 275.

Solid analytic geometry; space vectors; series; partial differentiation; multiple integration; differential equations.

Mathematics 304. Mathematical Logic and Set Theory. (3-0-3)

Prerequisite: Mathematics 175.

Sets, relations, and mappings; constants and variables; real numbers; informal account of the propositional calculus and first order functional calculus; informal account of various axiomatic theories.

Mathematics 310. Calculus IV. (3-0-3)

Prerequisite: Mathematics 276.

Differential and integral calculus of functions of several variables; vector differential and integral calculus; infinite series; Fourier series.

Mathematics 350. Introduction to Higher Algebra I. (3-0-3)

(Mathematics 350 has replaced Mathematics 352. Credit cannot be earned for both 350 and 352.)

Prerequisite: Permission of instructor.

Groups; rings; integral domains; related topics.

Mathematics 351G. Introduction to Higher Algebra II. (3-0-3)

Prerequisite: Mathematics 350 or consent of instructor.

Fields; vector spaces; determinants; matrices; linear transformations.

Mathematics 353. Statistics. (3-1-3)

Prerequisite: Consent of instructor.

Introduction to the applications of statistics. Graphical presentation of data; measures of central tendency and dispersions; hypothesis testing; point and interval estimation; correlation and regression analysis; certain specific applications useful to particular disciplines (e.g., business students are introduced to the principles of construction of economic indexes and time series analysis; students in the behavioral sciences are introduced to the basic methods of analysis of variances; etc.)

Mathematics 355G. Probability. (3-0-3)

Prerequisite: Mathematics 275.

Introduction to the theory of probability and its applications to statistical analysis. Bernoulli, binomial, hypergeometric, multinomial, uniform, Poisson, and normal distribution models; random variables; mathematical expectation; laws of large numbers; conditional probability and stochastic independence.

Mathematics 363. Differential Equations. (3-0-3)

Prerequisite: Mathematics 276.

Methods of solutions of linear differential equations and applications to physical problems.

Mathematics 372G. College Geometry. (3-0-3)

Prerequisite: Mathematics 175 or consent of instructor.

Algebra of real numbers; incidence geometry; distance congruences; separation; Euclidean space (synthetic and metric); absolute geometry; parallelism; perpendicularity; circles and spheres; rigid motion.

Mathematics 373G. Principles and Techniques of Mathematics. (3-0-3)

Prerequisite: Mathematics 276.

For teachers and prospective teachers of secondary mathematics. Material from advanced mathematics extend topics of high school mathematics.

Mathematics 380G. Solid Analytic Geometry. (3-0-3)

Prerequisite: Mathematics 276.

Coordinates; planes and lines; surfaces; general equations of the second degree; co-ordinate and point transformations; matrix algebra.

Mathematics 401G. Design and Analysis of Experiments. (3-2-4)

Prerequisite: Mathematics 121 or 152.

Introduction to the applications of statistics to the fields of biology, medicine, agriculture, education, psychology, physical education, and the social sciences. Analysis of enumeration data; hypothesis testing; confidence intervals; analysis of variance; correlation; regression.

Mathematics 410G. Real Variables. (3-0-3)

Prerequisite: Mathematics 310.

Algebra of sets; the real number system and its topological properties; sequences and convergence; local and global properties of continuous functions; limits of functions; theory of differentiation and integration.

Mathematics 420G. Mathematical Statistics. (3-0-3)

Prerequisite: Mathematics 355.

Statistical theory of hypothesis testing and estimation procedures; limit theorems; bivariate and multivariate distributions; order statistics; tests of goodness of fit; nonparametric comparison of locations; distribution theory.

Mathematics 453G. Statistical Methods. (3-0-3)

Prerequisite: Mathematics 353 or 401.

A second course in statistical methods for students in the behavioral, physical, biological, or agricultural sciences.

Mathematics 460G. Group Theory. (3-0-3)

Prerequisite: Mathematics 350.

Structure of groups, derived groups; nilpotence and solvability; extensions; products.

Mathematics 471. Seminar. (1-0-1)

Prerequisite: Senior standing.

This seminar is designed to give the student an opportunity to become familiar with the bibliographies and literature in special fields in, or related to, mathematics. It gives him an introduction to research and serves to deepen and broaden his scientific philosophy.

Mathematics 472G. Analytic Projective Geometry. (3-0-3)

Prerequisite: Mathematics 276.

Homographies in one direction; geometry of points on a line and invariants; homogeneous coordinates in two dimensions; geometry in the projective plane; non-Euclidean geometries.

Mathematics 475G. Selected Topics. (One to six hours credit.)

Prerequisite: Consent of instructor.

Topics are offered which meet the needs of students and which are not included in the general curriculum, such as: various statistical methods courses, topology, Boolean algebra, various application courses, Galois theory, and others.

Mathematics 476. Special Problems. (One to three hours credit.)

Prerequisite: At least a minor in mathematics and consent of Instructor.

To give the student an opportunity to do advanced work as a continuation of an earlier course and to introduce the student to individual research. Topic must be approved prior to registration. Credit will vary with the problem.

Mathematics 481G. Mathematical Physics. (Also Physics 481G.) (3-0-3)

Prerequisite: Mathematics 363.

Series solutions to differential equations, partial differential equations, boundary value problems and applications of mathematics to physical problems.

Mathematics 485G. Vector Analysis. (3-0-3)

Co-requisite: Mathematics 276.

Vector algebra; vector functions of a single variable; scalar and vector fields; line integrals; generalizations and applications.

Mathematics 486G. Complex Variables. (3-0-3)

Prerequisite: Mathematics 310 or 485G or permission of instructor.

Algebra of complex variables; analytic functions; elementary functions; geometric interpretation; integrals; power series; residues and poles; conformal mappings.

Mathematics 490G. Theory of Numbers. (3-0-3)

Prerequisite: Mathematics 275.

Postulates; division algorithm; divisibility; prime numbers; linear and quadratic congruences.

Mathematics 491G. Classical Mechanics. (Also Physics 491G.) (5-0-5)

Prerequisites: Mathematics 276 and Physics 232.

Co-requisite: Mathematics 363.

Topics in vector analysis; statics and dynamics of a particle; energy and momentum; vibrations in one dimension; angular momentum; rigid-body statics and dynamics, relative motion; vector and scalar fields; introduction to the methods of Lagrange and Hamilton.

Mathematics 505. Advanced Topics. (3-0-3)

Prerequisite: Consent of instructor.

The object of this course is to provide an opportunity for advanced study in some area of mathematics.

Mathematics 510. Real Analysis. (3-0-3)

Prerequisite: Mathematics 410.

Lebesgue measure on the real line; integration and differentiation of real functions; classical Banach spaces; abstract spaces.

Mathematics 570. Research Problems. (One to three hours credit.)

Prerequisite: Consent of instructor.

The student is required to carry on individual research in mathematics. The problem to be investigated must be approved prior to registration.

Mathematics 575. Selected Topics. (One to six hours credit.)

Prerequisite: Consent of instructor.

Topics are offered which meet the needs of students and which are not included in the general curriculum, such as: advanced field theory; various statistical theory courses; ring theory.

Physics

Requirements:

<i>For a Major (Non-Teaching):</i>	Sem. Hrs.
Physics 231, 232, 311, 312, 332, 471, and 491-----	25
To be selected from Physics 340, 341, or 441-----	4
Elective in physics approved by the department---	3
	32

Students majoring in physics are also required to complete the following—

Mathematics 175, 275, 276, and 363-----	15
To be selected from Mathematics 310, 485, or 486--	3
Chemistry 111 and 112 -----	8
Biology -----	3

For a Major (Teaching):

Physics 131, 132, 231, 232, 301, 311, 312, 352, and 471 -----	30
(Physics 131 and 132 may be waived by the student, with departmental approval, and eight other hours of physics substituted.)	

Students majoring in physics are also required to complete the following:

Mathematics 175, 275, and 276-----	12
Biology -----	3
Chemistry 111 and 112 -----	8
Mathematics electives -----	6

For a Minor:

Physics 231 and 232 -----	10
Electives in physics approved by the department---	11
	21

SUGGESTED PROGRAMS

The following programs have been devised to help students in selecting their courses and making their schedules. Close adherence to these suggested programs will aid the student in meeting the requirements for graduation.

Bachelor of Science Degree with a Major in Physics (Non-Teaching)

FRESHMAN YEAR

First Semester			Second Semester		
Eng.	101—Composition I	3	Eng.	102—Composition II	3
Math.	175—Anal. Geom. and Cal. I	4	Math.	275—Anal. Geom. and Cal. II	4
Chem.	111—General Chemistry I	4	Chem.	112—General Chemistry II	4
Psy.	153—General Psychology	3	Sci.	105—Intro. to Biological Sci.	3
	Military (Men)		P.E.	—Activity course	1
	or			Military (Men)	
	Elective (Women)	2		or	
				Elective (Women)	2
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16			17		

SOPHOMORE YEAR

First Semester			Second Semester		
Eng.	202—Intro. to Literature	3		English Elective	3
Math.	276—Anal. Geom. and Cal. III	4	Math.	363—Differential Equations	3
Phys.	231—Gen. College Physics I	5	Phys.	232—Gen. College Physics II	5
Hlth.	150—Personal Health	2	P.E.	—Activity course	1
	Military (Men)			Social Science Elective	3
	or			Military (Men)	
	Elective (Women)	2		or	
				Elective (Women)	2
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16			17		

JUNIOR YEAR

First Semester			Second Semester		
S.S.	300—Current World Problems	3	Phys.	312—Light and Phys. Optics	3
Phys.	311—Heat and Thermo.	3		Physics Laboratory	2
	Physics Laboratory	2	Phys.	332—Elec. and Magnetism I	3
	Mathematics Elective	3		Elective	7
	Elective	5	<hr/>		
<hr/>			15		

SENIOR YEAR

First Semester			Second Semester		
Phys.	491—Classical Mechanics	5	Hist.	400—American Foundations	3
	Soc. Science Elective	3	Phys.	471—Seminar	1
	Elective	8		Physics Elective	3
<hr/>				Elective	8
16			<hr/>		
			15		

Provisional High School Certificate with a Major in Physics

FRESHMAN YEAR

First Semester			Second Semester		
Eng.	101—Composition I	3	Eng.	102—Composition II	3
Math.	175—Anal. Geom. and Cal. I	4	Math.	275—Anal. Geom. and Cal. II	4
Chem.	111—General Chemistry I	4	Chem.	112—General Chemistry II	4
Psy.	153—General Psychology	3	Sci.	105—Intro. to Biological Sci.	3
	Military (Men)		Ed.	100—Orientation in Education	1
	or			Military (Men)	
	Elective (Women)	2		or	
				Elective (Women)	2
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16			17		

SOPHOMORE YEAR

First Semester			Second Semester		
Eng.	202—Intro. to Literature	3		Humanities or Com. Elec.	3
Math.	276—Anal. Geom. and Cal. III	4		Mathematics Elective	3
Phys.	131—Elementary Physics I	4	Phys.	132—Elementary Physics II	4
Hlth.	150—Personal Health	2	Ed.	210—Human Gr. and Develop. I	3
P.E.	—Activity course	1	P.E.	—Activity course	1
	Military (Men)			Military (Men)	
	or			or	
	Elective (Women)	2		Elective (Women)	2
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16			16		

JUNIOR YEAR

First Semester			Second Semester		
Phil.	300—Philosophy of Science	3	S.S.	300—Current World Problems	3
Phys.	231—Gen. College Physics I	5	Phys.	232—Gen. College Physics II	5
	Social Science Elective	3	Ed.	300—Intro. to Student Teach.	1
	Elective	6		Humanities Elective	3
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17			15		

SENIOR YEAR

First Semester			Second Semester		
Hist.	400—American Foundations	3	Ed.	477—Professional Semester	15
Phys.	301—Laboratory Techniques	2		(The Professional Semester may be taken either semester of the senior year)	
Phys.	471—Seminar	1			
Phys.	311—Heat and Thermo.	3			
	Social Science Elective	3			
	Elective	4			
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16			15		

DESCRIPTION OF COURSES

NOTE: (3-2-4) means 3 hours class, 2 hours laboratory, 4 hours credit.

Physics 131. Elementary Physics I. (3-2-4)

Prerequisites: Working knowledge of algebra and trigonometry. Basic principles of mechanics and heat.

Physics 132. Elementary Physics II. (3-2-4)

Prerequisite: Physics 131.

Electricity and magnetism, light, nuclear and atomic physics.

Physics 231. General College Physics I. (4-2-5)

Co-requisite: Mathematics 275.

Introduction to mechanics and heat. Laws of motion, conservation principles.

Physics 232. General College Physics II. (4-2-5)

Prerequisite: Physics 231; Co-requisite: Mathematics 276.

Introduction to electricity and magnetism, optics, and modern physics.

Physics 301G. Laboratory Techniques. (0-4-2)

Prerequisite: Physics 132 or 232.

This course will emphasize the construction and manipulation of special apparatus of interest to high school teachers of general science and physics.

Physics 311. Heat and Thermodynamics. (3-0-3)

Co-requisite: Physics 232.

Equations of state of gases, thermodynamic processes, kinetic theory.

Physics 312. Light and Physical Optics. (3-0-3)

Prerequisite: Physics 232.

Geometrical and physical optics, including wave motion, interference refraction, reflection, diffraction, polarization, and spectra.

Physics 332. Electricity and Magnetism I. (3-0-3)

Prerequisite: Physics 232.

Topics in classical electricity and magnetism: electrostatics, magnetostatics, dielectrics, D.C. and A.C. circuits; Maxwell's equations.

Physics 340. Experimental Physics I. (0-4-2)

Prerequisite: Physics 232.

Selected experiments in electrical measurements and electromagnetic theory.

Physics 341. Experimental Physics II. (0-4-2)

Prerequisite: Physics 232.

Selected experiments in mechanics, heat, optics, wave-motion.

Physics 350G. Radiation Physics. (3-2-4)

Prerequisite: Physics 132 or 232.

Atomic and nuclear structure; radioisotope techniques, sanitary science; waves and particles.

Physics 352. Concepts of Modern Physics. (3-0-3)

Prerequisite: Physics 232.

Relativity, quantum mechanics, atomic physics, statistical physics, solid state physics, and nuclear physics.

Physics 361. Fundamentals of Electronics. (1-4-3)

Prerequisite: Physics 232.

Characteristics of vacuum tubes, rectifiers, amplifiers, oscillators, and gas filled tubes.

Physics 410G. Solid State Physics. (3-0-3)

Prerequisite: Physics 352.

A systematic investigation of phenomena such as conductivity, specific heat, magnetism, and semi-conduction in solids. Solution of Schrodinger's equation in crystal fields.

Physics 432G. Electricity and Magnetism II. (3-0-3)

Prerequisite: Physics 332.

Continuation of Physics 332. Solutions of Maxwell's equations, and relativistic electrodynamics.

Physics 441. Experimental Physics III. (0-4-2)

Prerequisite: Physics 232.

Selected experiments in atomic and nuclear physics.

Physics 452G. Nuclear Physics. (3-0-3)

Prerequisite: Physics 232; Co-requisite: Math. 363.

An introduction to nuclear physics including binding energies, nuclear forces, transmutation of nuclei; natural and artificial radio-activity, etc.

Physics 471. Seminar. (1-0-1)

Prerequisite: Senior standing.

This seminar is designed to give the student an opportunity to become familiar with the literature in physics, and to gain experience in presenting research papers.

Physics 476. Special Problems. (One to three hours)

Prerequisite: Open only to physics majors having eighteen hours of physics above Physics 132, and consent of instructor. Topic to be approved prior to registration.

Physics 481G. Mathematical Physics. (3-0-3)

Prerequisite: Mathematics 363.

Series solutions to differential equations, partial differential equations, boundary value problems, and applications of mathematics to physical problems.

Physics 491G. Classical Mechanics. (Also Mathematics 491G.) (5-0-5)

Prerequisite: Physics 232; Co-requisite: Mathematics 363.

Topics in vector analysis; statics and dynamics of a particle; energy and momentum; vibrations in one dimension; angular momentum; rigid-body statics and dynamics; relative motion; vector and scalar fields; introduction to the methods of Lagrange and Hamilton.

Physics 492G. Advanced Mechanics. (3-0-3)

Prerequisite: Physics 491.

Continuation of Physics 491 with emphasis on gravitation, hydrodynamics, Lagrange and Hamiltonian formulations; rotation of a rigid body and small oscillations.

Physics 493G. Quantum Mechanics. (3-0-3)

Prerequisites: Physics 352 and 491.

Bohr-Wilson-Sommerfeld theory; Schroedinger's equations and atomic spectra.



SCHOOL OF SOCIAL SCIENCES

Roscoe H. Playforth, Dean

Economics

Geography

History

Political Science

Sociology



MOREHEAD STATE UNIVERSITY

THE GENERAL PROGRAM OF THE SCHOOL

The curriculum of the School of Social Sciences of Morehead State University includes courses in economics, geography, history, political science, and sociology designed to acquaint the student with the world in which he lives. Specifically the School performs the following functions:

It gives a four-year program of studies combining cultural education with specializations in one or more fields of the social sciences.

It offers a preparation for advanced study in each of the five disciplines included in the area of the social sciences.

It not only provides a foundation for graduate study, but also offers a program leading to the degree of Master of Arts in the field of history.

Although the University in general, and the School of Social Sciences in particular, offers a variety of instructional programs and is expanding its graduate offerings, a sound liberal education continues to be its major concern. All students doing their major work in the School are required to complete a basic general education program.

The School of Social Sciences offers courses leading to three degrees—Associate of Arts degree in social work, Bachelor of Arts degree, and Master of Arts degree.

Associate of Arts degree in social work. This degree is earned upon the successful completion of a two-year program of prescribed and elective work. The program is designed to prepare individuals to enter employment in the social service agencies at the community level.

Bachelor of Arts degree. The several fields of the social sciences may be used as areas of specialization in meeting the major requirements for this degree.

Master of Arts degree with specialization in history. Students majoring in history for the Master of Arts degree may specialize in American history, European history, non-western history, or a combination of these. (See p. 407 of this catalog for more detailed information concerning this degree.)

Preparation for Teaching. Students desiring certification to teach one or more of the social sciences in the secondary school may secure the desired preparation at Morehead. Consult the Index for references to the sections of this catalog concerned with the field of your choice.

Preparation for the Study of Law. The degree of Bachelor of Arts is accepted by all law schools as meeting their requirements for admission. The Pre-Legal Committee of the Association of American Law Schools stresses the importance of a well-rounded education. The study of law rests upon a broad knowledge of western civilization, including its political, economic, and social institutions. Therefore, students preparing for law should include in their undergraduate programs courses which afford this broad background.

The pre-law student should seek the advice of his academic adviser in arranging his courses and should also check for any particular requirements of the law school he plans to attend. Much of the last two years of his work should usually be drawn from—English, philosophy, history, political science, economics, sociology, and psychology.

Preparation for Training in Social Work. The Department of Sociology of Morehead State University is a member of the Council of Social Work Education. For undergraduate preparation for admission to Graduate Schools of Social Work the Council advises an undergraduate liberal education with a concentration in the social sciences.

There are some positions in the helping services of public assistance, public welfare, and as social work assistants which can be secured by holders of the bachelor's degree. Students who are planning for such a career should understand that there is, at present, no professional social work program offered at Morehead but the liberal education which is a prerequisite to graduate education in the social work areas is available. Also, the available undergraduate programs in social work provide excellent bases for non-professional employment in the helping services immediately after graduation from the School of Social Sciences with a major in sociology and an emphasis on social welfare.

Preparation for Work in State Government. The School of Social Sciences of Morehead State University in cooperation with the other Kentucky state institutions of higher education provides an internship type of program in political science designed to prepare for employment in state government.

OBJECTIVES OF THE SCHOOL OF SOCIAL SCIENCES

1. To provide, through the area of concentration, a broad preparation in the social sciences for teachers in the secondary schools.
2. To offer major and minor programs for students who prefer a more concentrated preparation in one or more of the primary social science fields: economics, sociology, social welfare, geography, history, and political science.
3. To provide courses of primary interest to those pursuing the program planned for training teachers for the elementary schools.
4. To provide courses which have been especially organized as part of the general education program of the University.
5. To provide a balanced selection of experiences for those students who may wish to enlarge their training in the general area of the social sciences or in some particular subject of that area.
6. To provide courses and experiences preparatory for service in government, particularly the government of the Commonwealth and its political subdivisions.

Requirements:

<i>For an Area of Concentration in Social Science:</i>	Sem. Hrs.
History 131, 132, 241, and 242	12
Additional advanced credit in history	9
Political Science 241 and 242	6
Sociology 101 and 301	6
Economics 201 and 202	6
Geography 100 and 211	6
Advanced electives from economics, geography, political science, or sociology	12
Total for an Area of Concentration	57

Provisional High School Certificate with an Area of Concentration in Social Science

FRESHMAN YEAR

First Semester			Second Semester		
Eng.	101—Composition I	3	Eng.	102—Composition II	3
P.E.	—Activity course	1	P.E.	—Activity course	1
Sci.	103—Intro. to Physical Sci.	3	Sci.	105—Intro. to Biological Sci.	3
Geog.	100—Fund. of Geography	3	Ed.	100—Orientation in Education I	3
Hist.	131—Western Civilization I	3	Hist.	132—Western Civilization II	3
Hlth.	150—Personal Health	2	Psy.	153—General Psychology	3
	Military (Men)			Military (Men)	
	or			or	
	Elective (Women)	2		Elective (Women)	2
		<hr/> 17			<hr/> 16

SOPHOMORE YEAR

First Semester			Second Semester		
Eng.	202—Intro. to Literature	3		Humanities or Com. Elec.	3
Hist.	241—U.S. 1492-1865	3	Hist.	242—U.S. Since 1865	3
Soc.	101—General Sociology	3	Ed.	210—Human Gr. and Develop. I	3
Econ.	201—Principles of Economics	3	Econ.	202—Economic Problems	3
P.S.	241—Government of the U.S.	3		Science or Math. Elec.	3
	Military (Men)			Military (Men)	
	or			or	
	Elective (Women)	2		Elective (Women)	2
		<hr/> 17			<hr/> 17

JUNIOR YEAR

First Semester			Second Semester		
P.S.	242—State and Local Govt.	3	Geog.	211—Economic Geography	3
Soc.	301—Sociological Theory	3	Ed.	300—Intro. to St. Teaching	1
Hist.	—Advanced Elective	3	Hist.	—Advanced Elective	3
S.S.	—*Adv. Social Sci. Elective	3	S.S.	—*Adv. Social Sci. Elective	6
	Science or Math. Elective	3		Humanities or Com. Elec.	3
		<hr/> 15			<hr/> 16

SENIOR YEAR

First Semester			Second Semester		
Hist.	—Advanced Elective	3	Ed.	477—Professional Semester	15
S.S.	—Adv. Social Sci. Elective	3		(The Professional Semester may be taken either semester of the senior year.)	
	Humanities or Com. Elec.	3			
	Elective	6			
		<hr/> 15			<hr/> 15

*Must be approved by the adviser.

DESCRIPTION OF COURSES

Social Science 300. Current World Problems. Three hours.

Prerequisite: Junior standing.

Custom and usage in the relations of nations; geographic, industrial, population, and military elements of national power; factors in post war balance of power; limitations on national power; contemporary world issues and conflicts; and twentieth century approaches to world peace.

Social Science 471. Seminar. One hour.

The purpose of this course is to promote group discussion of problems, methods of investigation, and theory in the social sciences. Current social science periodicals and reports are used as bases for study and discussion.

Social Science 500. Contemporary World Problems. Three hours.

Prerequisite: Twelve hours in social science.

A study of the historical, physical, cultural and political factors underlying current international issues. Particular attention is centered on the broad aspects of international law, the structure and operation of the United Nations Organization, and other contemporary international agencies and arrangements.

Social Science 510. Development of American Democracy. Three hours.

Prerequisite: Twelve hours in social science.

The ideas, institutions, customs and experiences from which the contemporary American way of life has developed. Attention is given to European and early American influences as well as to more recent and current developments. Comparisons and contrasts with alien ideologies and ways of living are also stressed.

Economics

Mr. Fincel

Mr. Ginzburg

Mr. Magda

Objectives:

1. To help the student understand the economy in which he lives with all its backgrounds and inter-relationships of environment and other economic factors that have enabled man to survive and progress; to provide him with sound theory and basic facts that he may need in guidance and planning.
2. To equip the potential high school teacher with materials so that he may give suitable instruction in economics at that level of education.
3. To provide a basic foundation for those desiring to do graduate work in economics.
4. To help prepare students for careers as consultants in economics, in law, in government service, in business, and in other professions.

Requirements:

<i>For a Major in Economics:</i>		Sem. Hrs.
Economics 201, 202, 349, 350, and 442 -----		15
Advanced electives in economics approved by the adviser -----		15
Seminar 471 -----		1
		<hr/> 31
<i>For a Major in Economics and Sociology:</i>		
Economics 201, 202, and 350 -----		9
Sociology 101, 203, and 301 -----		9
Advanced electives in economics and sociology ap- proved by the adviser -----		18
Seminar 471 -----		1
		<hr/> 37
<i>For a Minor in Economics:</i>		
Economics 201, 202, 349, 350, and 442 -----		15
Advanced electives in economics approved by the adviser -----		6
		<hr/> 21

SUGGESTED PROGRAM

The following programs have been devised to help students in selecting their courses and arranging their schedules. These schedules need not be followed specifically from semester to semester but close adherence to them will aid students in meeting the requirements for graduation.

Provisional High School Certificate with a Major in Economics**FRESHMAN YEAR**

First Semester			Second Semester		
Eng.	101—Composition I	3	Eng.	102—Composition II	3
P.E.	—Activity course	1	P.E.	—Activity course	1
Sci.	103—Intro. to Physical Sci.	3	Sci.	105—Intro. to Biological Sci.	3
Hlth.	150—Personal Health	2	Ed.	100—Orientation in Education	1
	Humanities or Com. Elec.	3	Psy.	153—General Psychology	3
	Second Major	3		Second Major	3
	Military (Men)	3		Military (Men)	3
	or			or	
	Elective (Women)	2		Elective (Women)	2
		<hr/> 17			<hr/> 16

SOPHOMORE YEAR

First Semester		Second Semester	
Eng.	202—Intro. to Literature 3	Ed.	210—Human Gr. and Develop. I 3
Econ.	201—Principles of Economics 3	Econ.	202—Economics Problems 3
	Science or Math. Elective 3		Science or Math. Elective 3
	Humanities or Com. Elec. 3		Second Major 6
	Second Major 3		Military (Men) 2
	Military (Men) 2		or
	or		Elective (Women) 2
	Elective (Women) 2		
	17		17

JUNIOR YEAR

First Semester		Second Semester	
Econ.	349—Ec. History of the U.S. 3	Econ.	442—Money and Banking 3
Econ.	350—Price Theory 3	Ed.	300—Intro. to St. Teaching 1
	Humanities or Com. Elec. 3	Econ.	—*Advanced Electives 6
	Second Major 6		Second Major 6
	15		16

SENIOR YEAR

First Semester		Second Semester	
Hist.	400—American Foundations 3	Ed.	477—Professional Semester 15
S.S.	471—Seminar 1		(The Professional Semester may be taken either semester of the senior year)
Econ.	—*Advanced Electives 9		
	Second Major 3		
	16		15

*Must be approved by adviser.

Provisional High School Certificate with a Major in Economics and Sociology

FRESHMAN YEAR

First Semester		Second Semester	
Eng.	101—Composition I 3	Eng.	102—Composition II 3
P.E.	—Activity course 1	P.E.	—Activity course 1
Sci.	103—Intro. to Physical Sci. 3	Sci.	105—Intro. to Biological Sci. 3
Soc.	101—General Sociology 3	Soc.	203—Contemp. Social Prob. 3
Psy.	153—General Psychology 3	Ed.	100—Orientation in Education 1
Hlth.	150—Personal Health 2		Elective 3
	Military (Men) 2		Military (Men) 2
	or		or
	Elective (Women) 2		Elective (Women) 2
	17		16

SOPHOMORE YEAR

First Semester		Second Semester	
Eng.	202—Intro. to Literature 3		Humanities or Com. Elec. 3
	Science or Math. Elective 3		Science or Math. Elective 3
Econ.	201—Principles of Economics 3	Econ.	202—Economic Problems 3
Ed.	210—Human. Gr. and Develop. I 3		Elective 6
	Elective 3		Military (Men) 2
	Military (Men) 2		or
	or		Elective (Women) 2
	Elective (Women) 2		
	17		17

JUNIOR YEAR

First Semester			Second Semester		
Econ.	350—Price Theory	3	*Econ. or Soc. Electives	9	
Soc.	301—Sociological Theory	3	Humanities or Com. Elec.	3	
Ed.	300—Intro. to St. Teaching	1	Elective	3	
	Humanities or Com. Elec.	3			
	Electives	6			
<hr/>			<hr/>		
16			15		

SENIOR YEAR

First Semester			Second Semester		
Hist.	400—American Foundations	3	Ed.	477—Professional Semester	15
S.S.	471—Seminar	1	(The Professional Semester may be taken either semester of the senior year.)		
	*Econ. or Soc. Electives	9			
	Elective	2			
<hr/>			<hr/>		
15			15		

*Must be approved by adviser.

DESCRIPTION OF COURSES

Economics 201. Principles of Economics. Three hours.

Prerequisite: Sophomore standing.

Economic organization; production and the forms of business units; consumption and the laws of price, money, banking, and exchange; distribution of wealth and income.

Economics 202. Economic Problems. Three hours.

Prerequisite: Economics 201.

The economics of distribution; government; international trade; investments and payments; problems of labor; problems of American agriculture; transportation; contrasting economic systems.

Economics 211. Economic Geography. Three hours.

(See Geography 211.)

Economics 302. Labor Problems. Three hours.

Prerequisite: Economics 201 or 202, or upper division standing.

Organized labor; labor legislation; the capitalistic regime; economic inequality; standards of living; industrial conflicts; state control and regulation.

Economics 304. Marketing. Three hours.

Prerequisite: Economics 201.

Raw materials and products; organized exchange; analysis of market; market price; manufactured products; warehouses; cooperative societies; distribution organizations.

Economics 305. Comparative Economic Systems. Three hours.

Prerequisites: Economics 201 and 202.

A study of influential theories of the major economic systems: Capitalism, Marxism, and Communism. Descriptive analyses of the operation of the corresponding economics.

Economics 310. Business Cycles. Three hours.

Prerequisite: Economics 201 and 202.

A study of the characteristics of cyclical fluctuations relating to the expansion and contraction of business.

Economics 339. Economic History of Europe. Three hours.

Prerequisite: Junior standing.

Medieval and early modern backgrounds; agriculture, industry, and trade from Napoleonic Wars to the First World War; labor legislation and organization to 1914; the First World War and its aftermath; economic experiments in Europe.

Economics 349. Economic History of the United States. Three hours.

Prerequisite: Junior standing.

Early colonial commerce; transportation and communication; rise of big business; monopoly and antitrust laws; the labor movement; agricultural development; government and the economy; foreign policy and trade; effects of war; business cycles; basic principles of the American economy.

Economics 350. Price Theory. Three hours.

Prerequisites: Economics 201 and 202.

A study of intermediate economic theory emphasizing theory of utility; pricing under the various market structures, and distribution of income.

Economics 440G. World Manufacturing. Three hours.

(See Geography 440G.)

Economics 441G. Public Finance. Three hours.

Prerequisite: Economics 201.

Public expenditures; public revenue; taxation; public credit; financial administration of government.

Economics 442G. Money and Banking. Three hours.

Prerequisite: Economics 201.

Credit and banking; nature of credit—personal credits, bank

credit; bank reserves; bank notes; state banks; the national banking system; the federal reserve system — member banks, gold reserve; money market.

Economics 443G. Investments. Three hours.

Prerequisite: Economics 201.

Corporation bonds; bonds secured by land or real estate; civil obligations; interest; the influence of market upon price of stocks and bonds.

Economics 447G. Introduction to International Economics. Three hours.

Prerequisites: Economics 201 and 202.

The theory of international speculation and exchange; comparative costs and terms of trade; government control on foreign trade; national income and balance of payments; monetary reserves and exchange rates; foreign investment and economic development; economic implications of the present role of the United States in international affairs.

Economics 450G. Social Science Research and Statistics. Three hours.

(See Sociology 450G.)

Economics 455G. Economic Development and Growth. Three hours.

Prerequisites: Economics 201 and 202.

An analytical survey of the significant factors affecting economic development with particular reference to underdeveloped regions. Theories of growth and development; analytical concepts prominent in such theories; implications for central problems of developments.

Economics 583. Development of Economic Thought I. Three hours.

Prerequisites: Graduate standing and twelve hours in economics.

Economic contributions of the ancient Hebrews, Greeks, and Romans; the early scholastics; physiocrats; Adam Smith; Ricardo; John Stuart Mill.

Economics 584. Development of Economic Thought II. Three hours.

(A continuation of Economics 583.)

Economic contributions of the Socialists and recent economic thought.

Sociology

Mr. Reser, Chairman of the Division of Economics and Sociology.

Mr. Crawford
Mr. Dotson
Mr. Duncan

Mr. El-Shamy

Mrs. Patton
Mr. Playforth
Mrs. Sabie

Objectives:

1. To help the students understand human society with all its backgrounds and interrelationships of men and environment; to measure society's capacity for survival and progress; and to provide for him sound theory and basic facts which he may need for social guidance and planning.
2. To prepare teachers of the subject for the secondary schools particularly as it is involved in the total program of the social studies.
3. To prepare for careers in the scientific study of society, social work, law, teaching in institutions of higher learning, or other professions.
4. To orient the potential teacher in behavioral relationships and to further his understanding of the society in which he will be teaching.

Requirements:

<i>For a Major in Sociology:</i>	Sem. Hrs.
Sociology 101, 203, 301, 305, and 450-----	15
Social Science 471 -----	1
Advanced credit in sociology approved by the adviser -----	15
Minimum for a Major-----	31
 <i>For a Minor in Sociology:</i>	
Sociology 101, 203, and 301-----	9
Advanced credit in sociology approved by the adviser -----	12
Minimum for a Minor-----	21

For a Major in Economics and Sociology:

Economics 201, 202, and 350.....	9
Sociology 101, 203, and 301.....	9
Social Science 471	1
Advanced credit in economics and/or sociology approved by the adviser.....	18
Minimum for a Major.....	37

For a Major in Sociology with Emphasis on Social Work:

Sociology 101, 203, 301, and 450.....	12
Social Work 210, 220, 225, and 315.....	12
Social Science 471	1
Advanced credit in Sociology or Social Work.....	6
Minimum for a Major	31

For the Two-Year Program in Social Work:

Sem. Hrs.

Sociology 101, 203, 210, 215, 220, 225, 315 and 354..	24
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Additional requirements:

English 101, 102, and 202.....	9
Science 103 and 105.....	6
Psychology 153	3
Speech 101	3
Health 150	2
Economics 201	3
Physical Education—Activity courses.....	2
Military Science (Men) or	
Elective (Women)	8
Elective	6

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SUGGESTED PROGRAMS

The following programs have been devised to help students in selecting their courses and making their schedules. These suggested schedules need not be followed specifically from semester to semester, but close adherence to them will aid the student in meeting all requirements for graduation.

Provisional High School Certificate with a Major in Sociology

FRESHMAN YEAR

First Semester				Second Semester			
Eng.	101—Composition I	3		Eng.	102—Composition II	3	
P.E.	—Activity course	1		P.E.	—Activity course	1	
Sci.	103—Intro. to Physical Sci.	3		Sci.	105—Intro. to Biological Sci.	3	
Soc.	101—General Sociology	3		Soc.	203—Contemp. Social Prob.	3	
Hlth.	150—Personal Health	2		Ed.	100—Orientation in Education	1	
	Humanities or Com. Elec.	3		Psy.	153—General Psychology	3	
	Military (Men)				Military (Men)		
	or	2			or	2	
	Elective (Women)				Elective (Women)		
<hr/>				<hr/>			
17				16			

SOPHOMORE YEAR

First Semester				Second Semester			
Eng.	202—Intro. to Literature	3			Humanities or Com. Elec.	3	
Ed.	210—Human Gr. and Develop. I	3		Soc.	301—Sociological Theory	3	
	Science or Math. Elective	3			Science or Math. Elective	3	
	Humanities or Com. Elec.	3			Second Major	6	
	Second Major	3			Military (Men)		
	Military (Men)				or	2	
	or	2			Elective (Women)		
	Elective (Women)						
<hr/>				<hr/>			
17				17			

JUNIOR YEAR

First Semester				Second Semester			
Soc.	305—Cultural Anthropology	3		Ed.	300—Intro. to St. Teaching	1	
	*Sociology Elective	3			*Sociology Electives	6	
	Second Major	9			Second Major	9	
<hr/>				<hr/>			
15				16			

SENIOR YEAR

First Semester				Second Semester			
Hist.	400—American Foundations	3		Ed.	477—Professional Semester	15	
S.S.	471—Seminar	1			(The Professional Semester may be taken either semester of the senior year.)		
Soc.	450—Soc. Sci. Res. and Stat.	3					
	*Sociology Electives	6					
	Second Major	3					
<hr/>				<hr/>			
16				15			

*Must be approved by adviser.

Provisional High School Certificate with a Major In Sociology
(Social Work Emphasis)

FRESHMAN YEAR

First Semester				Second Semester			
Eng.	101—Composition I	3		Eng.	102—Composition II	3	
P.E.	—Activity course	1		P.E.	—Activity course	1	
Sci.	103—Intro. to Physical Sci.	3		Sci.	105—Intro. to Biological Sci.	3	
Soc.	101—General Sociology	3		Soc.	203—Contemp. Social Prob.	3	
Hlth.	150—Personal Health	2		Ed.	100—Orientation in Education	1	
	Humanities or Com. Elec.	3		Psy.	153—General Psychology	3	
	Military (Men)				Military (Men)		
	or	2			or	2	
	Elective (Women)				Elective (Women)		
<hr/>				<hr/>			
17				16			

SOPHOMORE YEAR

First Semester			Second Semester		
Eng.	202—Intro. to Literature	3	Ed.	210—Human Gr. and Develop. I	3
Soc.	210—Orient. to Social Welfare	3	Soc.	215—Field of Social Work	3
	Science of Math. Elective	3		Science or Math. Elective	3
	Humanities or Com. Elec.	3		Second Major	6
	Second Major	3		Military (Men)	2
	Military (Men)	2		or	
	Elective (Women)	2		Elective (Women)	2
<hr/>			<hr/>		
17			17		

JUNIOR YEAR

First Semester			Second Semester		
Soc.	301—Sociological Theory	3	Ed.	300—Intro. to St. Teaching	1
Soc.	225—Intro. to Social Case Work	3	Soc.	315—Child Welfare Services	3
	Second Major	9		Humanities or Com. Elec.	3
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15			16		

SENIOR YEAR

First Semester			Second Semester		
Hist.	400—American Foundations	3	Ed.	477—Professional Semester	15
S.S.	471—Seminar	1		(The Professional Semester may be taken either semester of the senior year.)	
Soc.	450—Soc. Sci. Res. and Stat.	3			
	*Sociology Elective	6			
	Second Major	3			
<hr/>			<hr/>		
16			15		

*Must be approved by adviser.

Provisional High School Certificate with a Major in Economics and Sociology

FRESHMAN YEAR

First Semester			Second Semester		
Eng.	101—Composition I	3	Eng.	102—Composition II	3
P.E.	—Activity course	1	P.E.	—Activity course	1
Sci.	103—Intro. to Physical Sci.	3	Sci.	105—Intro. to Biological Sci.	3
Soc.	101—General Sociology	3	Soc.	203—Contemp. Social Prob.	3
Psy.	153—General Psychology	3	Ed.	100—Orientation in Education	1
Hlth.	150—Personal Health	2		Elective	3
	Military (Men)	2		Military (Men)	2
	or			or	
	Elective (Women)	2		Elective (Women)	2
<hr/>			<hr/>		
17			16		

SOPHOMORE YEAR

First Semester			Second Semester		
Eng.	202—Intro. to Literature	3		Humanities or Com. Elec.	3
	Science or Math. Elective	3		Science or Math. Elective	3
Econ.	201—Principles of Economics	3	Econ.	202—Economic Problems	3
Ed.	210—Human. Gr. and Develop. I	3		Elective	6
	Elective	3		Military (Men)	2
	Military (Men)	2		or	
	or			Elective (Women)	2
	Elective (Women)	2			
<hr/>			<hr/>		
17			17		

JUNIOR YEAR

First Semester			Second Semester		
Econ.	350—Price Theory	3	*Econ. or Soc. Electives	9	
Soc.	301—Sociological Theory	3	Humanities or Com. Elec.	3	
Ed.	300—Intro. to St. Teaching	1	Elective	3	
	Humanities or Com. Elec.	3			
	Electives	6			
		<hr/> 16			<hr/> 15

SENIOR YEAR

First Semester			Second Semester		
Hist.	400—American Foundations	3	Ed. 477—Professional Semester	15	
S.S.	471—Seminar	1	(The Professional Semester may be taken either semester of the senior year.)		
	*Econ. or Soc. Electives	9			
	Elective	2			
		<hr/> 15			<hr/> 15

*Must be approved by adviser.

Two-Year Program in Social Work

FIRST YEAR

First Semester			Second Semester		
Eng.	101—Composition I	3	Eng. 102—Composition II	3	
P.E.	—Activity course	1	P.E. —Activity course	1	
Soc.	101—General Sociology	3	Soc. 215—Field of Social Work	3	
Soc.	210—Orient. to Social Welfare	3	Soc. 220—Public Welfare Admin.	3	
Psy.	153—General Psychology	3	Soc. 203—Contemp. Social Problems	3	
	Military (Men)		Hlth. 150—Personal Health	2	
	or		Military (Men)	2	
	Elective (Women)	2	Elective (Women)	2	
		<hr/> 15			<hr/> 17

SECOND YEAR

First Semester			Second Semester		
Eng.	202—Intro. to Literature	3	Soc. 315—Child Welfare Services	3	
Ed.	210—Human Gr. and Develop. I	3	Soc. 354—Social Psychology	3	
Soc.	225—Intro. to Soc. Case Work	3	Econ. 201—Principles of Economics	3	
Sci.	103—Intro. to Physical Science	3	Sci. 105—Intro. to Biological Science	3	
Spch.	101—Basic Speech	3	Elective	3	
	Military (Men)		Military (Men)	2	
	or		Elective (Women)	2	
	Elective (Women)	2			
		<hr/> 17			<hr/> 17

DESCRIPTION OF COURSES

Sociology 101. General Sociology. Three hours.

Man and culture; studies in human personality and individual behavior as members of a group; heredity versus environment; social interaction patterns; forms of group behavior and group classifications; races of man and their social significance; communities; social institutions; social change and invention; and social control.

Sociology 170. Rural Sociology. Three hours.

(Also Agriculture 170.)

A study of the culture and social organization of rural societies; socio-economic aspects of agriculture; conditions and movements of rural populations; rural social institutions and agencies; rural-urban relations; emphasis on the Appalachian Region.

Sociology 203. Contemporary Social Problems. Three hours.

Problems concerning environment; wealth; poverty; population; mental efficiency; race; the family; child welfare; public opinion; crime and delinquency; and other contemporary social problems.

Sociology 210. Orientation to Social Welfare. Three hours.

An introduction to the organization and function of selected social work agencies in the community. Lectures, discussions, and observational visits. A prerequisite to all social welfare courses.

Sociology 215. Field of Social Work. Three hours.

Function, method, and philosophy of contemporary social work. The divisions of the field (case work, group work, community organization, institutional work, social action, and research) and professional status of social work considered.

Sociology 220. Public Welfare Administration. Three hours.

Public programs providing security of income, including social insurance for retired workers and public aid for families in need, along with the history and philosophy of their development will be presented. Origin and necessity of government measures for income security in the modern industrial society and how each agency is administered.

Sociology 225. Introduction to Social Case Work. Three hours.

This course is designed to provide the student with a basic knowledge of social case work methods and philosophy and to enable him to apply this knowledge at the beginning level. Introduction to the general principles of social case work. Discussion based on selected readings and case records.

Sociology 301. Sociological Theory. Three hours.

Prerequisites: Junior standing and Sociology 101.

A survey of the development of sociological theory; analysis of theoretical approaches to society; contributions of major theorists to contemporary sociological practice.

Sociology 302. Population Problems. Three hours.

Population studies on local, state, national, and world bases. The socio-cultural method is applied in interpretations of vital statistics. Topics covered include; population theories; life expectancy; population composition; differential birth and death rates; distributions of population; internal and international migrations; and population policies.

Sociology 303. Social Ethics. Three hours.

(See Philosophy 303.)

Sociology 304. Social Institutions. Three hours.

Factors and resources upon which man's social institutions are founded; cultural heritage of the Western World; marriage and the family; economic institutions; education; recreation; science, religion; government; institutional processes; future of western culture.

Sociology 305G. Cultural Anthropology. Three hours.

Cultural horizons; patterns of man's cultural development; primitive hunting, domestication of animals, farming, trade, and transportation; art; social institutions; social organizations; government and law; religion and magic; knowledge and science; invention, diffusion, convergence as seen among American Indian tribes, African Negro tribes, Eskimo and others.

Sociology 315. Child Welfare Services. Three hours.

A study of community and national programs for child care and protection, including aid to dependent children and other social security services.

Sociology 323. Urban Sociology. Three hours.

Ecological and social characteristics of urban life in contrast to rural community life; growth of cities; problems of large cities; housing and urban renewal; social pathologies of the cities; metropolitan planning; social change in the urban area; the effect of urbanization on social relations and institutions.

Sociology 354G. Social Psychology. Three hours.

Group behavior of lower animals; social functions of language; theories of human nature; dependable motives; emotional behavior; individual and class differences; racial differences; the individual in the group; culture and personality; personality problems; social factors in abnormality; social factors in delinquency and crime.

Geography

Mr. Clark
Mrs. Conley

Mr. Gartin
Mr. Gould
Mr. D. Martin

Mrs. Martin
Mr. Robinson

Objectives:

1. To provide competent instruction in geography for teachers of the subject at elementary and high school levels.
2. To offer a field of major study for students wishing to do graduate work in this field.
3. To broaden the cultural development of students by introducing them to the idea of man's varied adjustments to different physical environments.
4. To afford training to those choosing careers as professional geographers. Such personnel is in demand by government agencies and by business, commercial, and industrial firms.

Requirements:

For a Major:

Geography 100, 101, 211, and 241.....	12
Electives in systematic geography selected from 250, 390, and 440.....	6
Electives in regional geography selected from 320, 328, 331, 383, and 400.....	6
Geography credit approved by the department.....	6
- Social Science 471	1
<hr/>	
Minimum for a Major.....	31

For a Minor:

Geography 100, 101, 211, and 241.....	12
Elective in systematic geography selected from 390, 405, or 440.....	3
Geography credit approved by the department.....	6
<hr/>	
Minimum for a Minor.....	21

SUGGESTED PROGRAM

The following program has been devised to help students in selecting their courses and making their schedules. These suggested schedules need not be followed specifically from semester to semester, but close adherence to them will aid the student in meeting all requirements for graduation.

Provisional High School Certificate with a Major in Geography

FRESHMAN YEAR

First Semester			Second Semester		
Eng.	101—Composition I	3	Eng.	102—Composition II	3
P.E.	—Activity course	1	P.E.	—Activity course	1
Sci.	103—Intro. to Physical Sci.	3	Sci.	105—Intro. to Biological Sci.	3
Geog.	100—Fund. of Geography	3	Geog.	101—Physical Geography	3
Hlth.	150—Personal Health	2	Psy.	153—General Psychology	3
	Second Major	3	Ed.	100—Orientation in Education	1
	Military (Men)			Military (Men)	
	or			or	
	Elective (Women)	2		Elective (Women)	2
		<hr/> 17			<hr/> 16

SOPHOMORE YEAR

First Semester			Second Semester		
Eng.	202—Intro. to Literature	3		Humanities or Com. Elec.	3
Geog.	211—Economic Geography	3	Geog.	241—Anglo-America	3
	Science or Math. Elective	3		Science or Math. Elective	3
	Second Major	6	Ed.	210—Human Gr. and Devel. I	3
	Military (Men)			Second Major	3
	or			Military (Men)	
	Elective (Women)	2		or	
		<hr/> 17		Elective (Women)	2
					<hr/> 17

JUNIOR YEAR

First Semester			Second Semester		
	*Geography Electives	6		*Geography Electives	6
	Humanities or Com. Elec.	3	Ed.	100—Intro. to Student Teaching	1
	Second Major	6		Humanities or Com. Elec.	3
		<hr/> 15		Second Major	6
					<hr/> 16

SENIOR YEAR

First Semester			Second Semester		
Hist.	400—American Foundations	3	Ed.	477—Professional Semester	15
S.S.	471—Seminar	1		(The Professional Semester may be taken either semester of the senior year)	
	*Geography Electives	6			
	Second Major	6			
		<hr/> 16			<hr/> 15

*Must be approved by adviser.

DESCRIPTION OF COURSES

Geography 100. Fundamentals of Geography. Three hours.

A study of man's varied response and adjustment to his natural and cultural environment; human activity within the major climatic regions of the world. This course is basic to further study in geography.

Geography 101. Physical Geography. Three hours.

Study of the physical elements of the earth and their areal distribution; weather, climate, landforms, earth materials, water resources and natural vegetation analyzed and interpreted as elements of human habitation; correlated field trips and laboratory studies.

Geography 211. Economic Geography. Three hours.

Study of world commodities and their regional distribution. Analysis of land uses, agriculture, manufacturing, and extractive industries against a background of natural and cultural environments; consideration of economic factors in current international affairs.

Geography 241. Anglo-America. Three hours.

An intensive study of the major land-use regions of Anglo-America, their physical and cultural landscapes; an introduction to advanced regional analysis.

Geography 250. Cartography—Map Interpretation. Three hours.

History of map-making; properties and qualities of maps; characteristics of map projections; construction of basic projections.

Geography 300. Regional Geography. Three hours.

Prerequisite: Geography 100.

This course is planned primarily to guide the elementary teacher toward an understanding of the nature of regional geography. Brief regional description of the earth's surface, including both man-made and natural features. Principal regions of the world are studied in as much detail as so comprehensive a course allows. Not open to geography majors or minors, except elementary education area majors.

Geography 310. Australia. Three hours.

Prerequisite: Geography 100.

Resources of Australia, New Zealand, and neighboring islands of the Pacific; significance of position and political connections of these lands.

Geography 319. Middle America. Three hours.

Strongly emphasizing cultural and historical traditions, this course offers a close study of Mexico, the Central American republics, and the islands of the caribbean. Against the background of a diversified physical setting, significant relationships are shown between the early Indian and later Spanish-colonial cultures and the present-day economy and social structure.

Geography 320. South America. Three hours.

Prerequisite: Geography 100.

Regional analysis on national and continental basis with treatment of the physical, cultural, and economic characteristics; stress upon prospects of expansion for settlement, development of resources, and growth of industries. Special attention to the relationships of this continent with the United States.

Geography 328G. Africa. Three hours.

Prerequisite: Geography 100.

Study of Africa on the basis of its resources both natural and cultural; changing political conditions and affiliations of African countries; recognition of, and reasons for, the growing importance of this continent in world affairs.

Geography 331. Europe. Three hours.

Prerequisite: Geography 100.

European problems with their geographic background. Geographic factors in the economic, social, and political structure of Europe; emphasis on natural regions, resource distribution, and industrial development.

Geography 344. Kentucky. Two hours.

Prerequisite: Geography 100 and one additional course in physical geography or physical geology.

A detailed study of the physiographic divisions and subdivisions; interpretations of the weather and climate; drainage patterns; natural resources; occupations and land use; a survey of political units and consideration of traditions and potentialities of this state.

Geography 344A. Kentucky Field Studies. One hour.

Prerequisite: Current enrollment in Geography 344.

Selected readings pertaining to areas under study; observation trips into these areas with directed investigations; written geographical interpretation of these areas required.

Geography 350. Cartography—Map Compilation and Construction. Three hours.

Prerequisite: Geography 250.

Selection of source material for the base and body of the map; mechanical reproduction; construction of complex projections; basic aerial photo interpretation.

Geography 383G. Asia. Three hours.

Prerequisite: Geography 100.

A study of the man-land relations which characterize this large and diverse region. An evaluation of a continent in the midst of change in terms of geographic potentials.

Geography 390G. Climatology. Three hours.

Introduction to the physical elements of weather and climate; classifications of types and their distribution with particular reference to the effects of climate on the earth's physical and cultural landscapes.

Geography 400G. Soviet Union. Three hours.

Prerequisite: Geography 100.

Systematic and regional study of the Soviet Union. Special attention is given to the resource base, with appraisal of the agricultural and industrial strength of the country; consideration of the effects of governmental policy on economic growth.

Geography 401G. Workshop in Resource Use and Conservation. Three hours.

Analysis of regional development emphasizing the total integrated economy of region studied. Distribution and reserve depletion of resources. Field trips made under the leadership of conservation specialists; seminars and lecture presented by well-known authorities.

Geography 405G. Conservation of Natural Resources. Three hours.

A study of natural resources basic to human welfare with special emphasis on lands, water, minerals, forests, and wildlife and their interrelationships.

Geography 415G. Seminar. Geography Field Tour. Three hours.

Prerequisite: Six hours in geography.

Geographic reconnaissance of selected regions. Directed reading before departure; briefing sessions on the campus; lecture and observation in the field; interpretation and analysis for a written report.

Geography 440G. World Manufacturing. Three hours.

Prerequisite: Six hours in geography or approved studies.

Interpretive analysis of the pattern and function of selected manufacturing industries; location theory; sources of raw materials; and location of markets, labor supply, and transportation; trends in regional industrial changes.

Geography 500. Political Geography. Three hours.

Permission of the instructor.

Recognition of content and concepts of political geography; basic factors in evaluating strength of a nation; application of these understandings to world political patterns.

Geography 501. Special Problems. Three hours.

Permission of the instructor.

Supervised comprehensive investigation of selected problems in the field of geography.

Geography 523. Southeast Asia. Three hours.

A study of the Southeast Asia region, between India-Pakistan to west, China to the north, and Australia to the south. Intensive study of the politico-geographic, socio-economic, and resource potential problems of its countries.

Geography 529. The Mediterranean. Three hours.

A course designed to emphasize the Mediterranean Sea as a focal point of Western culture, the graduate student is afforded the opportunity for intensive study of any or all of the related areas of three continents: Southern Europe, Northern Africa, and Southwestern Asia.

Geography 540. Resources and Industries. Three hours.

Study of the resource base, nature, structure and distribution of industry, and its function in a national economy.

History

Mr. Hicks, Chairman of the Division of History and Political Science.

Mr. Anderson	Mr. Ferlanto	Mr. Howard
Mr. Burgess	Mr. Ferling	Mr. LeRoy
Mr. Dewing	Mr. Flatt	Mr. Murdock
Mr. Exelbirt	Mr. Folmar	Mr. Norman

Objectives:

1. To give a maximum number of students an understanding of the background and complexities of civilization; of man's striving, hopes, and accomplishments.
2. To offer a sound and comprehensive program wherein students may acquire greater familiarity with the broad movements of history, an intense knowledge of given fields, and an awareness of historical criticism and techniques.
3. To offer students an excellent foundation for other programs in the college curriculum including literature, pre-law, librarianship, and education.
4. To stimulate the development of history teachers, researchers, and writers at all educational levels.

Requirements:

For a Major:

History 131, 132, 241, and 242-----	12
Seminar 471 -----	1
Advanced history credit approved by department--	18
<hr/>	
Minimum for a Major-----	31

For a Minor:

History 131, 132, 241, and 242-----	12
Advanced history credit approved by department---	9
<hr/>	
Minimum for a Minor-----	21

For the Master of Arts degree:

Students majoring in history for the Master of Arts degree may emphasize either American history, English history, non-western history, or a combination of these.

**Requirements for Unconditional Admission to Graduate Study in History:*

1. General admission to graduate study.
2. Completion of an undergraduate major or minor in history.
3. A minimum standing of 3.0 on all undergraduate history courses above the freshman level.
4. General proficiency in the social sciences.

Requirements for the Degree:

1. Completion of a minimum of 18 semester hours of approved course work in history. At least 12 hours of this work must be earned in courses open only to graduate students.
2. Completion of an approved thesis.
3. Completion of a minimum of 30 semester hours of graduate work. (This includes the credit allowance for the thesis.)
4. A reading knowledge of a modern foreign language.
5. Successful completion of a final oral examination including defense of the thesis. Written examinations may also be required at the discretion of the student's committee and the Dean of Graduate Programs.

*See the section on Graduate Study for more detailed information (Pp. 113-6)

SUGGESTED PROGRAM

The following program has been devised to help students in selecting their courses and making their schedule. These suggested schedules need not be followed specifically from semester to semester, but close adherence to them will aid in meeting the requirements for graduation.

The Provisional High School Certificate with a Major in History

FRESHMAN YEAR

First Semester			Second Semester		
Eng.	101—Composition I	3	Eng.	102—Composition II	3
P.E.	—Activity course	1	P.E.	—Activity course	1
Sci.	103—Intro. to Physical Science	3	Sci.	105—Intro. to Biological Science	3
Hist.	131—Western Civilization I	3	Hist.	132—Western Civilization II	3
Hlth.	150—Personal Health	2	Ed.	100—Orientation in Education	1
	Elective	3	Psy.	153—General Psychology	3
	Military (Men)			Military (Men)	
	or	2		or	2
	Elective (Women)			Elective (Women)	
		17			16

SOPHOMORE YEAR

First Semester			Second Semester		
Eng.	202—Intro. to Literature	3		Humanities or Com. Elec.	3
Hist.	241—U.S. of America 1492-1865	3	Hist.	242—U.S. of America Since 1865	3
	Science or Math. Elective	3		Science or Math. Elective	3
Ed.	210—Human Gr. and Devel. I	3		Elective	6
	Humanities or Com. Elec.	3		Military (Men)	
	Military (Men)			or	
	or	2		Elective (Women)	2
	Elective (Women)				17
		17			17

JUNIOR YEAR

First Semester			Second Semester		
	Humanities or Com. Elec.	3	Ed.	300—Intro. to St. Teaching	1
	History Electives	6		History Electives	6
	Elective	6		Elective	8
		15			15

SENIOR YEAR

First Semester			Second Semester		
S.S.	471—Seminar	1	Ed.	477—Professional Semester	15
	History Electives	6		(The Professional Semester may be taken either semester of the senior year)	
	Electives	9			15
		16			15

DESCRIPTION OF COURSES

History 131. Western Civilization I. Three hours.

The story of western man and the rise of western civilization from the cities of Sumer through the classical age; the rise of Christianity; the opening of the New World; and the period of the Reformation.

History 132. Western Civilization II. Three hours.

From the age of the Reformation and the rise of the nation-state to the atomic age and man's quest for peace.

History 241. United States of America, 1492-1865. Three hours.

A survey of the basic tenets of American life from the age of discovery to the War Between the States.

History 242. United States of America Since 1865. Three hours.

A continuation of History 241, beginning with the reconstruction period and culminating with today's social and economic problems.

History 325. The Old South. Three hours.

Prerequisite: Six hours of history or permission of the instructor.

A study of the colonial origins of the southern states; the development of its regional characteristics; the origin and development of Negro slavery; the growth of southern sectionalism; the movement for independence.

History 326. The South Since 1865. Three hours.

Prerequisite: Six hours of history or permission of the instructor.

Reconstruction; cotton economy and tenancy; one party system; biracialism; Southern society and culture; industrialism and urbanization; the future of the South.

History 330. Ancient History. Three hours.

Prerequisite: Six hours of history or permission of the instructor.

A detailed study of the rise of civilization from its conception among the cities of Sumer with emphasis on the cultural contributions of the Greeks and Romans.

History 333. Medieval Europe. Three hours.

Prerequisite: Six hours of history or permission of the instructor.

The story of western man from the collapse of the Roman world to the Renaissance of the sixteenth century. Emphasis is placed upon the cultural aspects of the Age of Faith.

History 334. The Renaissance and Reformation. Three hours.

Prerequisite: Six hours of history or permission of the instructor.

A social and intellectual history of the beginning of the modern world with emphasis upon the cultural, social, and political aspects which culminated in the reform movements.

History 335. Europe, 1648-1815. Three hours.

Prerequisite: Six hours of history or permission of the instructor.

A detailed accounting of western man from the age of absolutism to the establishment of the First French Republic and its resultant aftermath, the Napoleonic Empire.

History 338. Nineteenth Century Europe. Three hours.

Prerequisite: Six hours of history or permission of the instructor.
From the Vienna Congress to the end of the late unification period with emphasis on the political isms and nationalistic trends of the century.

History 339. Economic History of Europe. Three hours.

(See Economics 339.)

History 343. American Political Parties. Three hours.

(See Political Science 343.)

History 344. A History of Kentucky. Three hours.

Prerequisite: Six hours of history or permission of the instructor.
From the early settlements of Kentucky through the creation of the Commonwealth, with emphasis upon its constitutional, social and economic development.

History 345. The American Frontier. Three hours.

Prerequisite: Six hours of history or permission of the instructor.
The Westward movement in the shaping of American life and institutions with emphasis upon the merits and limitations of the Turnerian thesis.

History 349. Economic History of the United States. Three hours.

(See Economics 349.)

History 351. England to 1660. Three hours.

Prerequisite: Six hours of history or permission of the instructor.
A study of the development of the political, social, and economic institutions of England to the fall of the Puritan Commonwealth.

History 352. England Since 1660. Three hours.

Prerequisite: Six hours of history or permission of the instructor.
A continuation of History 351, detailing the history of England from the Restoration Period through the creation of the British Empire and the Rise of the Commonwealth. Special emphasis is placed upon the rise of the English parliamentary system.

History 377G. Colonial Latin-America. Three hours.

Prerequisite: Six hours of history or permission of the instructor.
The Amerindian civilization; the arrival of the Spanish and Portuguese explorers and conquistadores; the growth of empire, social, governmental and commercial activities; and the revolutions of 1810-1825.

History 378G. Republican Latin-America. Three hours.

Prerequisite: Six hours of history or permission of the instructor.

This course examines the major political, economic, and social developments in the former Spanish colonies as well as in Brazil. Concentration will be placed upon the military dictatorships, the problems of stability and maturity, and the recent dangers from external interferences.

History 400. American Foundations. Three hours.

A course designed for a study of the great issues of American history, from the Constitutional Convention to the role of the United States as a major world power.

History 440G. Colonial America. Three hours.

Prerequisite: Six hours of history or permission of the instructor.

A study in the founding of the nation from the age of discovery to the outbreak of the Revolutionary War. Attention is given to the political, economic, and social forces within the colonial system and the contribution of experimentation in the New World, culminating in the American character and democracy.

History 441G. American Revolution and Federal Period. Three hours.

Prerequisite: Six hours of history or permission of the instructor.

The student's attention is directed to the causes of the Revolution, the military, economic and social history of the Revolution, the transition from the Confederation Period to the Federal Period, and the administrations of Washington, Adams, Jefferson, and Madison.

History 442G. The United States: Middle Period. Three hours.

Prerequisite: Six hours of history or permission of the instructor.

An analysis of national political and social movements beginning with the opening of the west following our second war with Great Britain. Special emphasis is placed on the political leaders of these turbulent years as the United States sought compromise but found civil war.

History 443G. The United States, 1860-1900. Three hours.

Prerequisite: Six hours of history or permission of the instructor.

Emphasis is placed upon the reconstruction era of American history and the rise of big business with its resultant epoch of America as a world power.

History 444G. The American Constitution. Three hours.

(See Political Science 444G.)

History 445G. The United States Since 1900. Three hours.

Prerequisite: Six hours of history or permission of the instructor.

A history of the American people in the twentieth century from the impulses of Progressivism to the Great Society. Of vital interest are the evolution in civil liberties, the challenges of the radical left and right, the rise of labor, and America's emerging world leadership.

History 448G. United States Foreign Relations. Three hours.

Prerequisite: Six hours of history or permission of the instructor.

A survey designed to acquaint the student with the foreign relations of the United States, from the French Alliance of 1778 to America's role in the United Nations.

History 449G. United States Social and Intellectual History. Three hours.

Prerequisite: Six hours of history or permission of the instructor.

A history of American thought and the changing social ideas of the American people; the impact of science; education and the popularization of knowledge; protest and reform; and the interrelations of various expressions of the American spirit—in literature, philosophy, and the arts.

History 450G. The World Since 1914. Three hours.

Prerequisite: Six hours of history or permission of the instructor.

The history of a century of conflict, from World War I to man's attempt to legislate world peace. Special emphasis is placed upon the twentieth century isms—fascism, nazism, and communism.

History 453. Russia to 1917. Three hours.

Prerequisite: Six hours of history or permission of the instructor.

The story of Russia from Kievan times to the modern era ending with the overthrow of the Romanov dynasty.

History 454. Russia Since 1917. Three hours.

Prerequisite: Six hours of history or permission of the instructor.

Beginning with the Communist Revolution the student is introduced to all facets of Russian history concluding with the period of the Cold War.

History 460. Africa to 1900. Three hours.

Prerequisite: Six hours of history or permission of the instructor.

An examination of four basic developments in the history of the African continent. The early Sudan Kingdom and the Eastern City-States; the first European contacts; the rise and fall of the slave trade; and the establishment of European colonies.

History 461. Africa Since 1900. Three hours.

Prerequisite: Six hours of history or permission of the instructor.

The French, German, and Italian influences; the advance of nationalism; and the problems of independence.

History 476G. American History. Directed Readings. One to three hours.

Prerequisite: Open only to history majors or minors or permission of the instructor.

After selecting his field of interest the student will be assigned topics for independent study.

History 477G. European History: Directed Readings. One to three hours.

Prerequisite: Open only to history majors or minors or permission of the instructor.

After selecting his field of interest, the student will be assigned topics for independent study.

History 478G. Non-Western History. Directed Readings. One to three hours.

Prerequisite: Open only to history majors and minors or by permission of the instructor.

After selecting his field of interest the student will be assigned topics for independent study.

History 510. American Biography. Three hours.

The characteristics and services rendered by men and women who have played leading roles in the history of the nation. Extensive reading with oral and written reports. Designed both for teachers of the social studies and for general education.

History 530. European Historiography. Three hours.

Prerequisite: Open only to history majors or minors or by permission of the instructor.

The development of history as a written subject; the works and philosophies of outstanding European historians from Herodotus to the contemporary science.

History 532. The French Revolution. Three hours.

A study in detail of the causes, course, and results of the French Revolutionary period.

History 535. European Intellectual History. Three hours.

Beginning with the transition from the Medieval to the Modern period, the student is introduced to the major schools of thought which have influenced and shaped today's world.

History 540. American Historiography. Three hours.

Prerequisite: Open only to history majors and minors or by permission of the instructor.

An analysis of the works of prominent American historians from the colonial period to the present. Emphasis is placed upon the ideas, range, and art of history, affording a basic understanding and comparative knowledge of historical interpretations.

History 541. The Slavery Controversy. Three hours.

A study of the controversy growing out of differences concerning slavery within voluntary societies; the rise of antislavery political parties and political issues involving the slavery question.

History 542. Seminar: American Colonial Period. Three hours.**History 543. Seminar: The United States: Formative Years. Three hours.****History 544. Seminar: Nineteenth Century United States. Three hours.****History 545. Seminar: Twentieth Century United States. Three hours.****History 550. Seminar: Latin-America. Three hours.****History 552. Seminar: Nineteenth Century Europe. Three hours.****History 560. Seminar: The World in the Twentieth Century. Three hours.****History 570. Seminar: Africa. Three hours.****History 599. Thesis. One to six hours.**

Required of all candidates for the A. M. in history.

Political Science

Mr. Bizzel

Mr. Feldman

Mr. G. Young

Mr. Huang

Objectives:

1. To provide the student with a background sufficient to enable him to exercise with intelligence the duties which come with living in a democratic society.
2. To develop an understanding of the institutions which make up our government and the basic principles that control their operation.
3. To give the student who does his major or minor work in the field of political science a well-balanced training in the major divisions of the field.
4. To prepare for service in government, particularly for public administration.
5. To provide teachers with a more thorough foundation for, and a greater appreciation of American principles and practices of democracy.

Requirements:

<i>For a Major:</i>	Sem. Hrs.
Political Science 241, 242, 333, 343, 444, and 450 ---	18
Advanced credit in political science -----	12
Seminar 471 -----	1
	<hr/>
Minimum for a Major -----	31
 <i>For a Minor:</i>	
Political Science 241, 242, 333, 343, and 450 -----	15
Advanced credit in political science -----	6
	<hr/>
Minimum for a Minor -----	21

PRE-PROFESSIONAL PROGRAMS BASED ON POLITICAL SCIENCE

Pre-Law Program

Preparation for the study of law requires no special curriculum but does require an emphasis on courses in writing and speaking. While most law schools do not require the bachelor's degree for entrance, it is recommended that preparatory studies be directed toward that end. This means that all general education requirements should be met, as well as requirements for a degree in some particular field. The field of political science is recommended as a type of desirable training for pre-law students.

Preparing for Government Service

No special curriculum is suggested for preparation for government service other than the general political science major requirements with a wide diversity of electives. However, students wishing to specialize on Public Administration should select courses dealing with public finance, personnel, and planning as well as administration.

SUGGESTED PROGRAM

The following program has been devised to help students in selecting their courses and making their schedules. These suggested schedules need not be followed specifically from semester to semester, but close adherence to them will aid the students in meeting all requirements for graduation.

Provisional High School Certificate with a Major in Political Science

FRESHMAN YEAR

First Semester				Second Semester			
Eng.	101—Composition I	3		Eng.	102—Composition II	3	
P.E.	—Activity course	1		P.E.	—Activity course	1	
Sci.	103—Intro. to Physical Sci.	3		Sci.	105—Intro. to Biological Sci.	3	
P.S.	241—Government of the U.S.	3		P.S.	242—State and Local		
Hlth.	150—Personal Health	2			Government	3	
	Second Major	3		Ed.	100—Orientation in Education	1	
	Military (Men)			Psy.	153—General Psychology	3	
	or	2			Military (Men)		
	Elective (Women)				or	2	
					Elective (Women)		
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17				16			

SOPHOMORE YEAR

First Semester				Second Semester			
Eng.	202—Intro. to Literature	3			Humanities or Com.		
P.S.	333—Comparative Government	3			Elective	3	
Ed.	210—Human Gr. and Develop. I	3		P.S.	343—Amer. Political Parties	3	
	Science or Math. Elective	3			Science or Math. Elective	3	
	Humanities or Com.				Second Major	6	
	Elective	3			Military (Men)		
	Military (Men)				or	2	
	or	2			Elective (Women)		
	Elective (Women)						
<hr/>				<hr/>			
17				17			

JUNIOR YEAR

First Semester			Second Semester		
	Humanities or Com.		Ed. 100—Orientation in Education	1	
	Elective	3	*Electives in Political Sci.	6	
P.S. 444—	The Amer. Constitution	3	Second Major	9	
	*Electives in Political Sci.	3			
	Second Major	6			
		<hr/> 15			<hr/> 16

SENIOR YEAR

First Semester			Second Semester		
Hist. 400—	American Foundations	3	Ed. 477—Professional Semester	15	
S.S. 471—	Seminar	1	(The Professional Semester may be taken either semester of the senior year)		
P.S. 450—	International Relations	3			
	Elective in Political Sci.	3			
	Second Major	6			
		<hr/> 16			<hr/> 15

*Must be approved by adviser.

DESCRIPTION OF COURSES

Political Science 241. Government of the United States. Three hours.

Prerequisite: One year of college work or the consent of the instructor.

Origins; the Constitution and its makers; the citizens—his rights, his political privileges; the Executive—his powers and functions; the Cabinet; the Senate; the House of Representatives; regulation of commerce; war powers; political parties—their origin and functions; judicial power; government of territories.

Political Science 242. State and Local Government. Three hours.

Prerequisite: Political Science 241.

The place of the states in the nation; the state constitution; state legislature; the state executive; state administration; state finance; state courts; state parties and politics; reconstruction of state government; the history of local government; the American city; municipal government; rural government.

Political Science 300. Municipal Government. Three hours.

Present-day role of cities in local government; types of structure and administration; emergence of new models; county-city annexations in metropolitan areas; revamping of the tax structure.

Political Science 333. Comparative Government. Three hours.

Prerequisite: Political Science 241.

Constitutional development; political organization; legislation; administration; party systems; courts; local government; the cabinet; recent development and proposed changes.

Political Science 343. American Political Parties. Three hours.
(Also History 343G)

Prerequisite: Political Science 241.

The political party as a part of the political machinery; party organization; party activities; campaign methods; reform movements; public opinion and party leadership; true function of parties and party responsibility.

Political Science 344. Kentucky Government. Three hours.

Prerequisite: Political Science 241.

Constitutional development; governmental organization of Kentucky—executive, legislative, judicial; local government; party development; present-day governmental problems.

Political Science 350. Early Political Theory. Three hours.

Prerequisite: Political Science 241.

Early political institutions and ideas; Greek and Roman contributions to the theory and practice of government; development of church and state relationships; nature and authority of law; transition from the city state to the national state.

Political Science 351G. Recent Political Theory. Three hours.

Prerequisite: Political Science 241.

The theory of the national state; absolutism and the theory of divine right; the concept of sovereignty; right to resist and the theory of natural rights and natural law; rise of radicalism; rights of the citizen and the growth of liberalism; fascism and communism; democracy in an industrial society.

Political Science 360. International Organizations. Three hours.

Prerequisite: Political Science 241.

Theories and precedents of past international organizations; social and economic forces leading to any shaping various regional organizations; background and establishment of the United Nations; problems and issues underlying the current operation of the world organization; analysis of the Charter with emphasis on possible revisions.

Political Science 364. Intergovernmental Relations. Three hours.

Prerequisites: Political Science 241, 242, and 300.

Role of the Federal Government in the design and administration of intergovernmental programs; state and local government participation in intergovernmental programs; urban renewal; conflict and cooperation in interstate relations; allocation of resources and responsibilities at the various levels.

Political Science 400G. Pressure Groups and Politics. Three hours.

Prerequisite: Political Science 241 or 242.

An analysis of interest groups and their techniques of political propaganda. The group studies include—labor, industry, labor, farmers, and others in American society.

Political Science 444G. The American Constitution. Three hours.

(Also History 444G)

Prerequisite: Political Science 241.

Principles of constitutional interpretation; the federal system; separation of powers and judicial review; principles and precedents underlying current interpretations in such fields as civil rights, government and the economy; social and welfare legislation.

Political Science 446G. Personnel Administration. Three hours.

A study of manpower utilization and development with emphasis on the concept of the merit system in public administration and on employee responsibilities and values as well as the operational considerations in such systems.

Political Science 448G. Public Administration. Three hours.

Prerequisites: Political Science 241 and 242.

Administrative organizations; state control of local administration; personnel problems; financial administration; administrative law; public relations; standards for measuring administrative performance.

Political Science 450G. International Relations. Three hours.

Prerequisites: History 142 and 232; Political Science 333, or nine hours of political science.

Foundations of international relations; the United States' foreign policy; geographic position; economic and strategic factors; instruments of policy; regional and world politics; problems of European peace; problems of peace in Asia; the United States and the world powers; background of World War II; the United Nations Organization and the problem of lasting peace.

Political Science 500. Seminar: State and Local Government. Three hours.

Prerequisites: Political Science 241, 242, 300 and 360G.

Intensive and detailed study of state and local government including interstate and local cooperation and coordination in programs of mutual concern such as regional planning, compacts, etc.

Political Science 520. Seminar: International Relations. Three hours.

Prerequisite: Political Science 450.

Training in methodology and use of the tools for individual research in international relations. Emphasis on Europe, South-East Asia, Latin America, and North-Central Africa.

MILITARY SCIENCE



A stylized line drawing of a building. On the left is a tall, narrow spire. To its right is a long, low horizontal structure. A sign is mounted on this structure, containing the text 'MOREHEAD STATE UNIVERSITY'. Below the sign are several vertical lines representing columns or supports.

MOREHEAD STATE UNIVERSITY

Military Science

Morehead State University follows the policy of requiring all male students to complete the Basic Course in Military Science. This means that all male students include military science on their schedules during the freshman and sophomore years unless they are excused for one or more of the reasons explained later in this section.

The primary mission of the Reserve Officers' Training Corps (ROTC) is to produce junior officers for all components of the United States Army. A vital secondary mission is to impart citizenship training, develop leadership potential, and to stimulate and motivate the student for future useful service in behalf of the Nation in whatever profession he chooses. The basic aim is to develop in each student habits of cheerful and appropriate response to constituted authority, loyalty, patriotism, self-discipline, personal bearing and precision.

The program offered at Morehead is the General Military Science curriculum which provides instruction in leadership and military fundamentals common to all branches of the Army. Upon graduation, and completion of the Advanced Course, a student may be commissioned in one of the fourteen branches consonant with his academic major, his preference, and the requirements of the military service. The branches of the military service available are — Armor, Artillery, Infantry, Signal Corps, Corps of Engineers, Chemical Corps, Adjutant General's Corps, Finance Corps, Military Police Corps, Quartermaster Corps, Medical Service Corps, Transportation Corps, and Military Intelligence.

The Army R.O.T.C. (Reserve Officers Training Corps) program at Morehead State University is divided into two courses of two years each. These are the **Basic Course** normally taken in the freshman and sophomore years, and the **Advanced Course** taken in the junior and senior years. Completion of the Basic Course is normally a prerequisite for the Advanced Course. Between the junior and senior years the student attends a Summer Camp at an Army Post where he is given an opportunity to put into practice the military theory learned at the University and is evaluated as a potential officer. Successful completion of the Basic and Advanced Courses, the Summer Camp, and a Bachelor's Degree are required to be eligible for a commission.

BASIC COURSE—(Military Science I and Military Science II). The ROTC Basic Course of two years duration is required by the University for all able-bodied male students. This course is a University requirement for graduation. Once the student is enrolled he must continue in the Basic Course each semester he is enrolled in the University until the Basic Course has been completed satisfactorily. Students may be excused from this requirement in rare cases upon recommendation of the Professor of Military Science, after a personal interview, and approval by the President of Morehead State University. Students may be excused from formal enrollment in the Basic Course in the following instances:

- a. If not a citizen of the United States. (Exceptions may be made by the Professor of Military Science.)
- b. If under 14 years of age; or if the individual cannot qualify for appointment as a Second Lieutenant prior to reaching 28 years of age.
- c. If medically unfit to perform General Military Service.

A student who has prior military service or who has completed ROTC training in high school or at another college or university will, after a conference with the Professor of Military Science, be enrolled in the course for which prior military training qualifies him, or be excused from enrollment under specified conditions.

Students transferring to Morehead after completing part of the Basic Course elsewhere must continue the course at this University until successful completion. Students transferring to Morehead who have not been enrolled in the Basic Course elsewhere will be required to enroll in and complete the Basic Course if their classification upon enrollment is less than that of a second semester sophomore (less than 45 semester hours accepted by this University). Students transferring to Morehead with a classification of second-semester sophomore or junior, without previous military training, may qualify for the ROTC Advanced Course by attendance at a Basic Training Camp during the summer between the sophomore and junior years. In any event, male transfer students must consult with the Professor of Military Science for determination of their enrollment status.

ADVANCED COURSE—(Military Science III and Military Science IV). The Advanced Course is offered students who have successfully completed the Basic Course and who have been recommended by the Professor of Military Science and approved by the

President of the University. Such recommendations and approvals will be limited to those students who have shown special interest and ability during the Basic Course, who have expressed a desire to continue in the Advanced Course to qualify for a commission in the Regular Army or the Army Reserve, who are physically qualified, and who achieve satisfactory scores on the prescribed standardized qualification tests. A student selected for the Advanced Course will receive subsistence pay of \$50.00 per month, or approximately \$1000.00 for the two-year course. During the summer following the junior year, students in the Advanced Course will attend a Summer Camp of six weeks duration. While attending Summer Camp members of the Advanced Course are paid at the rate of one-half of the base pay of a Second Lieutenant; are furnished subsistence, housing, uniforms and medical care; and are paid a travel allowance to and from Camp. Enrollment in the Advanced Course is limited to students who can qualify for appointment as Second Lieutenants prior to reaching 28 years of age (27 for Regular Army Commission) with exceptions being made for prior-service men. Those who enroll must sign a contract with the United States Government to complete the Advanced Course and attend Summer Camp. Upon completion of the Advanced Course and recommendation of the Professor of Military Science and the President of the University, students may be commissioned as Second Lieutenants in the Army Reserve at the time of their graduation. Distinguished Military Students, so designated in their senior year by the Professor of Military Science and the President of the University for outstanding achievement during the preceding three-year period, have an opportunity to apply for Regular Army Commissions. This opportunity is extended only to those students of high leadership potential and who stand academically in the upper one-third of the Advanced Course.

Selected and qualified seniors may take flight training at government expense in order to receive a private pilot's license. University credit is not granted for this extra training.

CREDIT—The Basic Course is presented in two classroom hours and one Leadership Laboratory hour per week for both Military Science I (freshmen) and Military Science II (sophomores) and two hours of credit are awarded for each semester's participation.

The Advanced Course is presented in four classroom hours and two Leadership Laboratory hours per week during one semester, and in one classroom hour and two Leadership Laboratory hours the other semester, during the junior and senior years. In addition, the advanced cadets are required to take a three-hour elective substi-

tution course during one semester of each year. (See the Advanced Course curriculum for Military Science III and IV). The student receives four hours of credit one semester and one hour the other semester for a total of five hours credit each year in the Advanced Course. He receives constructive credit toward meeting Advanced Course requirements as prescribed by law for the three-hour elective substitution course each year.

Since the Basic Course in Military Science is a University requirement for a degree, male students should confer with their faculty advisors or the Dean of their School to determine the most advantageous use of ROTC credits.

MEDICAL EXAMINATIONS—Section 44 of the National Defense Act requires that ROTC students must be "physically fit to perform military duty, or will be so upon arrival at military age." In meeting this requirement of the law the medical examination required by the University of a student entering Morehead for the first time will be used as the basis for physical classification for ROTC. (See p. 58 of the Catalog.)

Physical examinations for students selected for enrollment in the Advanced Course will be arranged for by the Professor of Military Science at no cost to the students.

DESCRIPTION OF COURSES

Military Science 101. Introduction to Military Science. Two hours.

Organization of the Army and ROTC; individual weapons and marksmanship; *basic military subjects; leadership laboratory. Three contact hours per week.

Military Science 102. Basic Military Training I. Two hours.

U. S. Army and national security; *basic military subjects; leadership laboratory. Three contact hours per week.

Military Science 201. Basic Military Training II. Two hours.

Map and aerial photograph reading; introduction to basic tactics and techniques; leadership laboratory. Three contact hours per week.

Military Science 202. Basic Military Training III. Two hours.

American military history; leadership laboratory. Three contact hours per week.

*Includes military first aid, care of mass casualties; drill and ceremonies.

Military Science 301. Advanced Military Training I. One hour.
(Fall Semester Only)

Branches of the Army; **pre-camp orientation; leadership laboratory; ***academic elective substitution course.

Military Science 302. Advanced Military Training II. Four hours.
(Spring Semester only)

Leadership; military teaching principles; small unit tactics and communications; leadership laboratory.

Military Science 401. Advanced Military Training III. Four hours.
(Fall Semester only)

Operations; logistics; army administration; military law; leadership laboratory.

Military Science 402. Advanced Military Training IV. One hour.
(Spring Semester only)

The role of the United States in world affairs; service orientation; leadership laboratory; academic elective substitution course.

**This five-hour sub-course may be introduced as substitute instruction in leadership laboratory and for prescribed field-training exercises.

***Must be selected from upper division courses in English, Foreign Language, Speech, Science, Mathematics, Psychology, Geography, History, or Political Science and must be approved by the Professor of Military Science.

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MOREHEAD STATE UNIVERSITY

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