

== BULLETIN OF ==
MOREHEAD
STATE COLLEGE
== MOREHEAD, KENTUCKY ==



**GENERAL
CATALOG
1959-61**

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BULLETIN
OF
Morehead State College

MOREHEAD, KENTUCKY

GENERAL CATALOG

1959-60

1960-61

MEMBER

**Kentucky Association of Colleges, Elementary and Secondary
Schools**

Southern Association of Colleges and Secondary Schools

American Association of Colleges for Teacher Education

American Council on Education

National Council for Accreditation of Teacher Education

Volume 27

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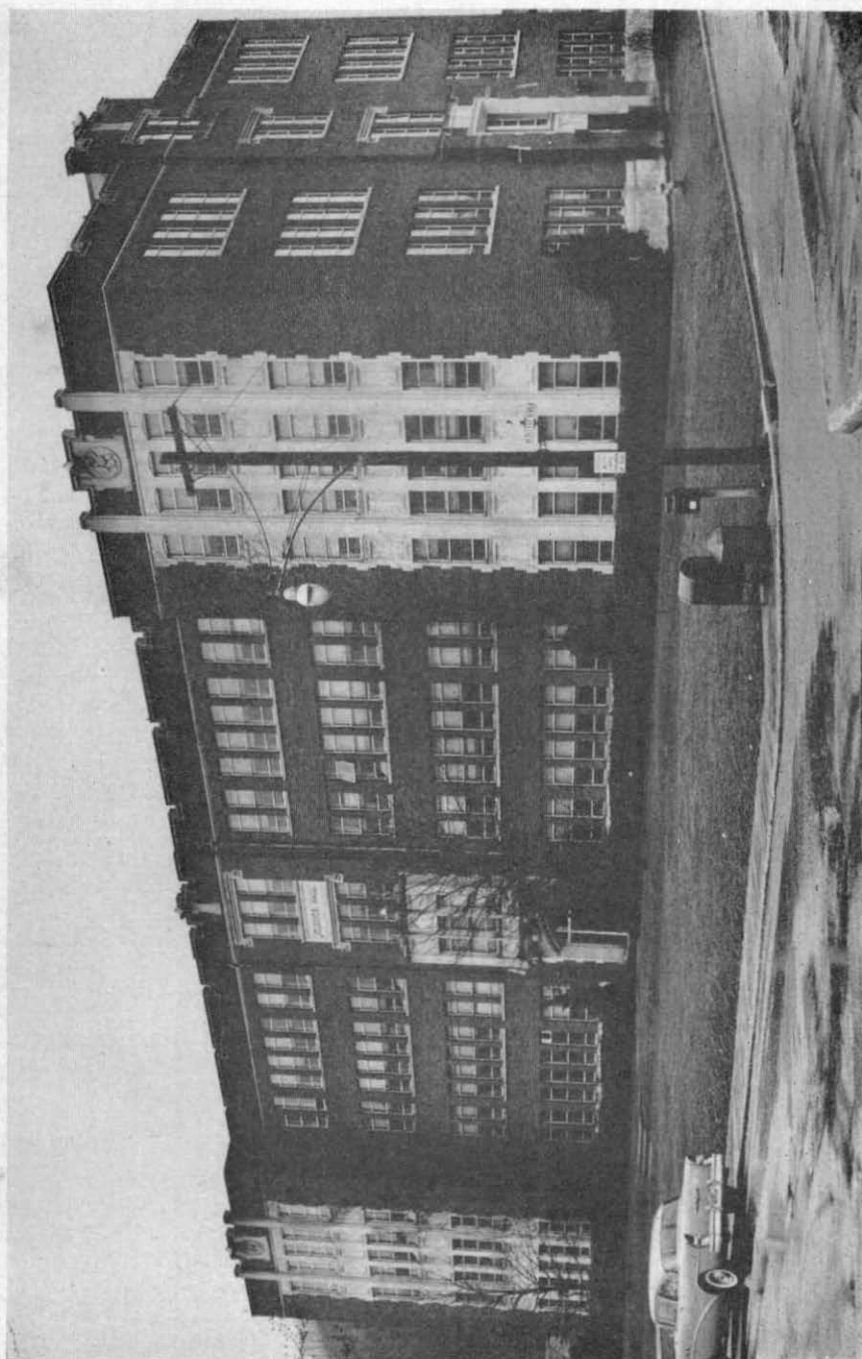
No. 1

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MOREHEAD, KENTUCKY

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College Calendar, 1959-60

FIRST SEMESTER

September 12	Saturday	Registration of Part-Time Students
September 14	Monday	Freshman Orientation begins (All freshmen are expected to report at Button Auditorium at 9:00 A.M.)
September 16	Wednesday	Registration of Freshmen
September 17	Thursday	Registration of upperclass students
September 18	Friday	Classes begin
September 21	Monday	Last day to register for full load
September 24	Thursday	Last day to register for credit
October 12	Monday	Students who drop courses after this date will automatically receive marks of "E" in the courses dropped
October 19	Monday	Freshman grade reports to the Dean of Instruction
November 16	Monday	Mid-term grade reports to the Registrar
November 25	Wednesday	Thanksgiving holiday begins at 12:35 P.M.
November 30	Monday	Class work resumed at 7:45 A.M.
December 19	Saturday	Christmas holiday begins at 12:00 M.
January 4	Monday	Class work resumed at 7:45 A.M.
January 25	Monday	Final examinations begin.
January 28	Thursday	All grades due in the Registrar's office by 3:00 P.M.
January 30	Saturday	First semester closes at 12:00 M.

SECOND SEMESTER

February 1	Monday	Orientation of new students
February 2	Tuesday	Registration of Freshmen
February 3	Wednesday	Registration of upperclass students
February 4	Thursday	Classes begin
February 6	Saturday	Last day to register for full load
February 9	Tuesday	Last day to register for credit
February 29	Monday	Students who drop courses after this date will automatically receive marks of "E" in the courses dropped
April 4	Monday	Mid-term grade reports to the Registrar
April 13	Wednesday	Spring Vacation begins at 12:35 P.M.
April 18	Monday	Class work resumed at 7:45 A.M.
May 29	Sunday	Baccalaureate Service
June 1	Wednesday	Final examinations begin
June 2	Thursday	Commencement exercises
June 3	Friday	Second semester closes at 5:00 P.M.
June 6	Monday	All grades due in Registrar's Office by 3:00 P.M.

SUMMER TERM 1960

June 13	Monday	Registration for the Summer Term
August 5	Friday	Summer Term closes

College Calendar, 1960-61

FIRST SEMESTER

September 10	Saturday	Registration of Part-Time Students
September 12	Monday	Freshman Orientation begins (All freshmen are expected to report at Button Auditorium at 9:00 A.M.)
September 14	Wednesday	Registration of Freshmen
September 15	Thursday	Registration of upperclass students
September 16	Friday	Classes begin
September 19	Monday	Last day to register for full load
September 22	Thursday	Last day to register for credit
October 10	Monday	Students who drop courses after this date will automatically receive marks of "E" in the courses dropped.
October 17	Monday	Freshman grade reports to the Dean of Instruction
November 14	Monday	Mid-term grade reports to the Registrar
November 23	Wednesday	Thanksgiving holiday begins at 12:35 P.M.
November 28	Monday	Class work resumed at 7:45 A.M.
December 17	Saturday	Christmas holiday begins at 12:00 M.
January 3	Tuesday	Class work resumed at 7:45 A.M.
January 23	Monday	Final examinations begin.
January 26	Thursday	All grades due in the Registrar's office by 3:00 P.M.
January 28	Saturday	First Semester closes at 12:00 M.

SECOND SEMESTER

January 30	Monday	Orientation of new students
January 31	Tuesday	Registration of Freshmen
February 1	Wednesday	Registration of upperclass students
February 2	Thursday	Classes begin
February 4	Saturday	Last day to register for full load
February 7	Tuesday	Last day to register for credit
February 27	Monday	Students who drop courses after this date will automatically receive marks of "E" in the courses dropped.
April 3	Monday	Mid-term grade reports to the Registrar
April 12	Wednesday	Spring Vacation begins at 12:35 P.M.
April 17	Monday	Class work resumed at 7:45 A.M.
May 28	Sunday	Baccalaureate Service
May 31	Wednesday	Final examinations begin
June 1	Thursday	Commencement exercises
June 2	Friday	Second Semester closes at 5:00 P.M.
June 5	Monday	All grades due in Registrar's Office by 3:00 P.M.

SUMMER TERM 1961

June 12	Monday	Registration for the Summer Term
August 4	Friday	Summer Term closes

Methodist Conference
see 4

Board of Regents

W. P. Butler

ROBERT R. MARTIN Frankfort, Kentucky
State Superintendent of Public Instruction,
ex officio chairman

W. H. CARTMELL Maysville, Kentucky

ALEX S. CHAMBERLAIN Ashland, Kentucky

CHARLES W. GILLEY Winchester, Kentucky

B. F. REED Drift, Kentucky

Dr. Joe Taylor Hyden
REVA E. SHANNON Louisa, Kentucky

E. BRUCE WALTERS Pikeville, Kentucky

OFFICERS OF THE BOARD

W. P. Butler

ROBERT R. MARTIN Chairman

W. H. CARTMELL Vice-Chairman

ANNA B. CARTER Secretary

Charles W. Gilley
W. H. CARTMELL, Representative of the Board of Regents on the
Council on Public Higher Education

Administrative Staff

ADRON DORAN	President
WARREN C. LAPPIN	Dean of Instruction
PALMER L. HALL	Director of Graduate Study
MERLE HOWARD	Director of Training School
MONROE WICKER	Director of School Services
IONE M. CHAPMAN	Librarian
W. H. RICE	Superintendent of Buildings and Grounds
RAY HORNBACK	Director of Public Relations

STUDENT PERSONNEL SERVICES

ROGER L. WILSON	Dean of Students
EARLYNE SAUNDERS	Associate Dean of Students
KATE B. HILL	Fields Hall
MAUD W. STROTHER	Allie Young Hall
J. T. MAYS	Men's Hall
GEORGE W. COOKE	Thompson Hall
JOHN E. COLLIS	College Apartments
WILLIAM J. MACK	Doran Student House
JUANITA HOWARD	School Nurse

REGISTRAR'S OFFICE

LINUS A. FAIR	Registrar
MARY ELLA WELLS	Assistant Registrar
CATHERINE BACH	Clerk

BUSINESS OFFICE

HERBERT H. HOGAN	Business Manager
ROBERT W. STOKES	Assistant Business Manager
GERALDINE STEFENCavage	Cashier
ANITA FALLS	Order Writer
PATRICIA CLEVANGER	Machine Operator
BETTY HILL	Inventory Clerk
MILDRED TUCKER	Telephone Operator
JOHN E. COLLIS	Bookstore Manager
GLADYS BROWN	Cafeteria Director
EDITH CONYERS	File Clerk

SECRETARIES AND STENOGRAPHERS

ANNA B. CARTER	President's Office
LUCILLE SALLEE	Dept. of Education
ANNA LEE BAYS	Office of Dean of Instruction
JOYCE HART	Office of Dean of Students
VIRGINIA CAUDILL	Business Office
JEAN LAFFERTY	Business Office
BESSIE MARSHALL	Registrar's Office
BARBARA WALLS	Training School
AVALEEN COOKE	Public Relations
ANIS ISON	Library
LUCY OSBORNE	School Services
VERA SUBLETT	School Services

The Faculty

- ADRON DORAN, B.S., A.M., Ed.D. *President*
 B.S., Murray State College, 1932
 A.M., Murray State College, 1948
 Ed.D., University of Kentucky, 1950
 Morehead State College since 1954
- PAUL H. ADAMS, A.B., A.M. *Instructor in Physical Education,*
 A.B., Morehead State College, 1946 *Coach of Football*
 A.M., Morehead State College, 1956
 Morehead State College since 1956
- JOHN E. ALLEN, JR., A.B., A.M. *Instructor in Education, Supervising Teacher in Physical Education*
 A.B., Morehead State College, 1950
 A.M., Morehead State College, 1955
 Morehead State College since 1954
- MARY TUTTLE ANDERSON, B.E., A.M. *Assistant Professor of Education, Supervising Teacher Fourth Grade*
 B.E., Normal University (Illinois), 1937
 A.M., Teachers College, Columbia University, 1944
 Morehead State College since 1952
- ROSS C. ANDERSON, B.S., A.M. *Associate Professor of Commerce, Head of Department*
 B.S., Eastern (Ky.) State College, 1933
 A.M., University of Kentucky, 1938
 Morehead State College since 1938
- CHARLES E. APEL, A.B., B.S., M.S. *Associate Professor of Commerce*
 A.B., Wesley College, 1925
 B.S., University of North Dakota, 1925
 M.S., University of North Dakota, 1926
 Morehead State College since 1948
- GAERIEL C. BANKS, A.B., B.D., A.M. *Associate Professor of English*
 A.B., Transylvania College, 1917
 B.D., College of the Bible, 1921
 A.M., Yale University, 1924
 Morehead State College since 1936
- MARGUERITE BISHOP, B.S., B.S. in Lib. Sci. *Assistant Librarian*
 B.S., Morehead State College, 1935
 B.S., Columbia University, 1940
 Morehead State College since 1930

- PATTI BOLIN, A.B., B.S., A.M. Associate Professor
 A.B., Western (Ky.) State College, 1928 of Home Eco-
 B.S., Western (Ky.) State College, 1931 nomics, Head of
 A.M., University of Kentucky, 1938 Department
 Morehead State College 1940-1946,
 and since 1948
- SUZANNE BRADLEY, A.B., A.M., M.S., in Lib. Sci. Instructor in
 A.B., Morehead State College, 1953 Library Science,
 A.M., Morehead State College, 1955 Training School
 M.S., in Lib. Sci., University of Librarian
 Kentucky, 1958
 Morehead State College since 1958
- KATIE LOU BYRD, A.A., B.S., M.B.E. Instructor in
 A.A., Perkinson Jr. College, 1935 Commerce
 B.S., Mississippi Southern College, 1937
 M.B.E., University of Mississippi, 1954
 Morehead State College since 1956
- HENRY AMES CAREY, A.B., A.M., Ph.D. Professor of
 A.B., University of California, 1922 Economics and
 A.M., University of California, 1925 Sociology, Head
 Ph.D., Columbia University, 1931 of Department
 Morehead State College since 1944
- JOHN E. CARTER, JR., B.M., M.M. Instructor in Music
 B.M., Trinity University, 1952
 M.M., George Peabody College, 1953
 Morehead State College since 1956
- IRA T. CAUDILL, B.S., A.M. Instructor in Educa-
 B.S., Morehead State College, 1931 tion, Supervising
 A.M., Morehead State College, 1954 Teacher of
 Morehead State College since 1957 Mathematics
- THELMA C. CAUDILL, A.B., A.M. Instructor in
 A.B., Morehead State College, 1938 Corrective Speech
 A.M., Morehead State College, 1957
 Morehead State College since 1958
- IONE M. CHAPMAN, A.B., A.M., B.S. in Lib. Sci. Assistant Professor
 A.B., University of Illinois, 1925 of Library
 A.M., Columbia University, 1928 Science, Librarian
 B.S., University of Illinois, 1944
 Morehead State College since 1946

- NELL SUE CHEATHAM, B.S., M.S. *Instructor in*
 B.S., Kentucky Wesleyan, 1949 *Science and*
 M.S., University of Kentucky, 1951 *Mathematics*
 Morehead State College since 1955
- NAOMI CLAYPOOL, A.B., A.M. *Associate Professor*
 A.B., University of Kentucky, 1930 *of Art, Head of*
 A.M., Teachers College, *Department*
 Columbia University, 1932
 Morehead State College since 1925
- ALEX D. CONYERS, B.S., M.B.A. *Instructor in*
 B.S., University of Kentucky, 1954 *Commerce*
 M.B.A., University of Kentucky, 1958
 Morehead State College since 1958
- LAKE CORNETT COOPER, A.B., A.M. *Assistant Professor*
 A.B., Morehead State College, 1945 *of Mathematics*
 A.M., Morehead State College, 1947
 Morehead State College since 1956
- WALTER P. COVINGTON, A.B., A.M. *Assistant Professor*
 A.B., University of North Carolina, 1948 *of Speech and*
 A.M., University of North Carolina, 1949 *Dramatic Art*
 Morehead State College since 1950
- ALICE EVELYN COX, B.S., A.M. *Assistant Professor*
 B.S., University of Kentucky, 1937 *of Commerce*
 A.M., University of Kentucky, 1948
 Morehead State College since 1948
- LORENE SPARKS DAY, A.B., A.M. *Assistant Professor*
 A.B., Kentucky Wesleyan College, 1929 *of Education,*
 A.M., Teachers College, *Supervising*
 Columbia University, 1932 *Teacher in Social*
 Morehead State College since 1930 *Science*
- SAM J. DENNEY, A.B., A.M. *Assistant Professor*
 A.B., University of Kentucky, 1928 *of Education,*
 A.M., University of Kentucky, 1932 *Supervising*
 Morehead State College since 1936 *Teacher in*
English
- JOHNSON E. DUNCAN, B.M.E., M.M., Ph.D. *Professor of Music,*
 B.M.E., Northwestern University *Head of*
 (Illinois), 1941 *Department*
 M.M., Northwestern University, 1946
 Ph.D., George Peabody College, 1953
 Morehead State College since 1956

- PALMER L. HALL, A.B., A.M., Ed.D. *Associate Professor
of Education;
Director of
Graduate Study*
A.B., Tusculum College, 1931
A.M., University of Kentucky, 1952
Ed.D., University of Kentucky, 1955
Morehead State College since 1957
- RONDAL D. HART, A.B., B.S., A.M. *Instructor in Educa-
tion, Supervising
Teacher of
Industrial Arts*
A.B., Morehead State College, 1957
B.S., Morehead State College, 1958
A.M., Morehead State College, 1958
Morehead State College since 1958
- MARGARET B. HEASLIP, B.S., M.S., Ph.D. *Associate Professor
of Biology*
B.S., Ohio State University, 1947
M.S., Ohio State University, 1948
Ph.D., Ohio State University, 1950
Morehead State College since 1955
- DONALD F. HOLLAWAY, A.B., A.M. *Instructor in
Speech and
Dramatic Art*
A.B., Morehead State College, 1956
A.M., Morehead State College, 1958
Morehead State College since 1958
- RAYMOND R. HORNBACK, A.B. *Director of
Public Relations*
A.B., University of Kentucky, 1956
Morehead State College since 1956
- MERLE HOWARD, A.B., A.M. *Assistant Professor
of Education,
Director of
Training School*
A.B., University of Kentucky, 1948
A.M., University of Kentucky, 1949
Morehead State College since 1957
- KEITH HUFFMAN, A.B., A.M. *Associate Professor
of Music, Orches-
tra Director*
A.B., Morehead State College, 1943
A.M., University of Iowa, 1947
Morehead State College since 1947
- CRAYTON T. JACKSON, A.B., A.M., Ph.D. *Associate Professor
of Science*
A.B., Morehead State College, 1947
A.M., University of Kentucky, 1948
Ph.D., Cornell University, 1958
Morehead State College since 1958
- ALICE AVENELLE KAUFFMAN, B.S., M.S. *Instructor in Home
Economics*
B.S., University of Wisconsin, 1927
M.S., Iowa State College, 1944
Morehead State College since 1957

- ARCH S. LACEFIELD, A.B., A.M. *Assistant Professor*
 A.B., University of Kentucky, 1949 *of Literature*
 A.M., University of Kentucky, 1950 *and Languages*
 Morehead State College since 1955
- ALLEN T. LAKE, B.S., Ed.M. *Instructor in*
 B.S., Edinboro State Teachers College, 1949 *Science*
 Ed.M., University of Buffalo, 1950
 Morehead State College since 1957
- WARREN C. LAPPIN, A.B., A.M., Ed.D. *Professor of*
 A.B., Transylvania College, 1920 *Education, Dean*
 A.M., University of Chicago, 1929 *of Instruction*
 Ed.D., Indiana University, 1941
 Morehead State College since 1923
- ROBERT G. LAUGHLIN, A.B., A.M. *Associate Professor*
 A.B., Morehead State College, 1937 *of Health and*
 A.M., University of Kentucky, 1941 *Physical Educa-*
 Morehead State College since 1935 *tion, Head of*
Department
- JOHN H. LAWTON, A.B., A.M., Ph.D. *Assistant Professor*
 A.B., Emerson College, 1937 *of Speech*
 A.M., Boston College, 1940
 Ph.D., University of Iowa, 1957
 Morehead State College since 1957
- JOHN H. LONG, A.B., A.M., Ph.D. *Associate Professor*
 A.B., University of Florida, 1938 *of English*
 A.M., University of Florida, 1948
 Ph.D., University of Florida, 1951
 Morehead State College since 1951
- EDWARD J. LUCKE, B.S., A.M. *Assistant Professor*
 B.S., East Tennessee State College, 1951 *of Physical Edu-*
 A.M., George Peabody College, 1953 *cation, Assistant*
 Morehead State College since 1956 *Basketball Coach*
- MARY SUE LUCKE, B.S., A.M., *Instructor in*
 B.S., Radford College, 1951 *Physical Edu-*
 A.M., Morehead State College, 1958 *cation*
 Morehead State College since 1958
- WILLIAM J. MACK, A.B., A.M. *Instructor in Physi-*
 A.B., Morehead State College, 1947 *cal Education,*
 A.M., University of Kentucky, 1948 *Director Doran*
 Morehead State College since 1957 *Student House*

- HILDRETH MAGGARD, A.B., A.M. *Instructor in English*
 A.B., Transylvania College, 1926
 A.M., Teachers College, Columbia University, 1936
 Morehead State College since 1958
- DONALD L. MARTIN, B.S., M.S. *Assistant Professor of Geography*
 B.S., Southern Illinois University, 1952
 M.S., Southern Illinois University, 1953
 Morehead State College since 1957
- FRED MARZAN, B.M., M.M. *Assistant Professor of Music*
 B.M., Eastman School of Music, 1952
 M.M., University of Michigan, 1956
 Morehead State College since 1956
- JESSE T. MAYS, A.B., A.M. *Assistant Professor of Industrial Arts, Head of Department*
 A.B., Union College, 1931
 A.M., George Peabody College, 1933
 Morehead State College since 1933
- HUBERT J. MCSHEA, A.B., A.M., Ph.D. *Professor of Education, Director of Testing Bureau*
 A.B., Catholic University, 1938
 A.M., Catholic University, 1944
 Ph.D., Catholic University, 1945
 Morehead State College since 1947
- JUANITA MINISH, A.B., A.M. *Assistant Professor of Education, Supervising Teacher of Foreign Languages*
 A.B., Transylvania College, 1919
 A.M., George Peabody College, 1930
 Morehead State College since 1930
- ETHEL J. MOORE, A.B., A.M. *Assistant Professor of Languages and Literature*
 A.B., Western (Ky.) State College, 1932
 A.M., University of Kentucky, 1954
 Morehead State College since 1955
- HAZEL NOLLAU, B.S., M.S. *Assistant Professor of Education, Supervising Teacher of Science*
 B.S., University of Kentucky, 1934
 M.S., University of Kentucky, 1935
 Morehead State College since 1943
- MARY P. NORTHCUTT, A.B., A.M. *Instructor in Education, Supervising Teacher of Second Grade*
 A.B., Morehead State College, 1954
 A.M., Morehead State College, 1955
 Morehead State College since 1955

- PAUL C. OVERSTREET, A.B., M.S. Associate Professor
 A.B., Asbury College, 1913 of Mathematics
 M.S., University of Iowa, 1925 and Physics
 Morehead State College since 1946
- WILLIAM BURR OWSLEY, B.S., A.M., Ph.D. Professor of
 B.S., Western (Ky.) State College, 1931 Biology, Head
 A.M., Western (Ky.) State College, 1935 Division of
 Ph.D., Ohio State University, 1945 Science and
 Morehead State College since 1950 Mathematics
- ANN G. PEMBERTON, B.S., M.S. Assistant Professor
 B.S., Tennessee Polytechnical Institute, 1953 of Physical
 M.S., George Peabody College, 1957 Education
 Morehead State College since 1957
- GUY D. PENNY, B.S., A.M. Instructor in
 B.S., University of Mississippi, 1950 Physical Educa-
 A.M., University of Mississippi, 1958 tion, Head Foot-
 ball Coach
- TONEY C. PHILLIPS, A.B., A.M. Assistant Professor
 A.B., Athens College, 1937 of Chemistry
 A.M., George Peabody College, 1950
 Morehead State College since 1951
- ROSCOE PLAYFORTH, A.B., A.M. Assistant Professor
 A.B., Eastern (Ky.) State College, 1938 of Sociology
 A.M., University of Kentucky, 1948
 Morehead State College since 1957
- JAMES F. PRINCE, A.B., A.M. Instructor in
 A.B., University of South Carolina, 1942 English
 A.M., University of South Carolina, 1947
 Morehead State College since 1957
- CLIFFORD R. RADER, A.B., A.M., Ph.D. Professor of History
 A.B., Eastern (Ky.) State College, 1934 and Government,
 A.M., University of Kentucky, 1937 Head of
 Ph.D., University of Kentucky, 1945 Department
 Morehead State College since 1947
- VIRGINIA RICE, B.S., M.S. Assistant Professor
 B.S., University of Kentucky, 1927 of Education, Su-
 M.S., University of Kentucky, 1952 pervising Teacher
 Morehead State College since 1947 of Home Eco-
 nomics

- LEONARD ROBERTS, A.B., A.M., Ph.D. *Professor of*
 A.B., Berea College, 1939 *English, Head of*
 A.M., State University of Iowa, 1943 *Division of*
 Ph.D., University of Kentucky, 1954 *Languages and*
 Morehead State College since 1958 *Literature*
- NORMAN N. ROBERTS, B.S., M.S. *Assistant Professor*
 B.S., Morehead State College, 1950 *of Industrial Arts*
 M.S., The Stout Institute, 1951
 Morehead State College since 1952
- EARLYNE SAUNDERS, A.B., A.M. *Instructor in*
 A.B., Morehead State College, 1937 *History, Associate*
 A.M., University of Kentucky, 1958 *Dean of Students*
 Morehead State College since 1958
- VIOLET C. SEVERY, B.M., M.M. *Instructor in Music*
 B.M., University of Redlands, 1934
 M.M., University of Redlands, 1956
 Morehead State College since 1956
- ERA MAE SMELLEY, B.S., A.M. *Assistant Professor*
 B.S., Stephen F. Austin State College, 1935 *of Education,*
 A.M., Stephen F. Austin State College, 1941 *Supervising*
 Morehead State College since 1948 *Teacher of*
Fifth Grade
- ALBERT F. STEWART, A.B., A.M. *Assistant Professor*
 A.B., Berea College, 1936 *of Languages and*
 A.M., University of Kentucky, 1953 *Literature*
 Morehead State College since 1956
- LAWRENCE R. STEWART, A.B., A.M., M.Ed., Ph.D. *Associate Professor*
 A.B., Morehead State College, 1939 *of Education*
 A.M., Marshall College, 1948
 Ed.M., George Peabody College, 1954
 Ed.D., George Peabody College, 1956
 Morehead State College since 1958
- EASTON STUHR, B.S., A.M. *Instructor in*
 B.S., Johns Hopkins University, 1946 *English*
 A.M., Northwestern University, 1949
 Morehead State College since 1957
- NORMAN TANT, B.S., A.M., Ph.D. *Professor of*
 B.S., State Teachers College *Education,*
 (Jacksonville, Ala.), 1940 *Director of*
 A.M., George Peabody College, 1948 *Visual*
 Ph.D., George Peabody College, 1952 *Education*
 Morehead State College since 1952

- ZELL S. WALTER, B.S., A.M., Ed.D. *Professor of*
 B.S., Ohio Northern University, 1925 *Education,*
 A.M., University of Chicago, 1932 *Head of*
 Ed.D., University of Cincinnati, 1942 *Department*
 Morehead State College since 1948
- NONA BESS WATSON, A.B., A.M., B.S. in Lib. Sci. *Assistant Librarian*
 A.B., Union University, 1919
 A.M., Teachers College, Columbia
 University, 1932
 B.S., George Peabody College, 1943
 Morehead State College since 1949
- BLANCHE J. WALTZ, B.S., A.M. *Instructor in Edu-*
 B.S., University of Louisville, 1929 *cation, Supervis-*
 A.M., Morehead State College, 1957 *ing Teacher of*
 Morehead State College since 1953 *Sixth Grade*
- HAZEL WHITAKER, A.B., A.M. *Assistant Professor*
 A.B., Morehead State College, 1940 *of Education,*
 A.M., Morehead State College, 1950 *Supervising*
 Morehead State College since 1950 *Teacher of*
Third Grade
- MONROE WICKER, A.B., A.M. *Associate Professor*
 A.B., Tusculum College, 1930 *of Education,*
 A.M., University of Kentucky, 1940 *Director Bureau*
 Morehead State College since 1947 *of School Service*
- ELLA O. WILKES, B.S., M.S. *Associate Professor*
 B.S., George Peabody College, 1924 *of Geography*
 M.S., University of Chicago, 1931
 Morehead State College since 1932
- CLARICA WILLIAMS, A.B., B.S. in Lib. Sci. *Assistant Professor*
 A.B., Eastern (Ky.) State College, 1936 *of Library Sci-*
 B.S., University of Kentucky, 1946 *ence*
 Morehead State College since 1950
- ROGER L. WILSON, A.B., A.M. *Associate Professor*
 A.B., Eastern (Ky.) State College, 1936 *of Education,*
 A.M., University of Kentucky, 1947 *Dean of Students*
 Morehead State College since 1953
- JERRY L. WING, A.B., A.M. *Instructor in*
 A.B., Morehead State College, 1951 *Physical Edu-*
 A.M., Morehead State College, 1952 *cation*
 Morehead State College since 1957

- LESLIE E. WOELFLIN, A.B., A.M.Assistant Professor
A.B., Western (Ky.) State College, 1948 of Music
A.M., State University of Iowa, 1950
Morehead State College since 1956
- CARL N. WOODS, A.B., A.M.Assistant Professor
A.B., Morehead State College, 1939 of Social Science
A.M., George Peabody College, 1951
Morehead State College since 1956
- GEORGE THOMPSON YOUNG, A.B., A.M.Assistant Professor
A.B., Centre College, 1931 of Education,
A.M., Teachers College, Supervising
Columbia University, 1935 Teacher of Social
Morehead State College since 1932 Science
- THOMAS D. YOUNG, A.B., A.M.Associate Professor
A.B., University of Kentucky, 1925 of Art
A.M., Columbia University, 1932
Morehead State College since 1936



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 three times. In 1926 it became Morehead State Normal School and Teachers College; in 1930, Morehead State Teachers College; and in 1948 Morehead State College. The college 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 college.

LOCATION

Morehead State College 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 three-hundred and fifty 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.

BUILDINGS

The buildings of the college, situated on the edge of the mountain slope overlooking the valley of Triplett Creek, present an imposing panorama of architectural beauty. They are of Tudor-Gothic design, the library being the best example of the type, and all conform in general style. The Administration Building occupies the central position in the group. Allie Young Hall, Johnson Camden Library, Fields Hall, Button Auditorium, Senff Natatorium, Lappin Science Hall, Doran Student House, and the President's Home form an arc to the west of the campus, while Thompson Hall, Breckinridge Training School, Baird Music Building, Men's Hall, the Stadium and the Fieldhouse complete the arc toward the east. All of these buildings are of reinforced concrete, red brick and stone, and are fireproof.

ADMINISTRATION BUILDING

This structure, the first of the group to be completed, was ready for occupancy in 1926. In it are located the administration offices; the Testing Bureau; the Bureau of Audio-Visual Aids; and the offices and classrooms of the departments of commerce, education, economics and sociology, and history and political science.

ALLIE YOUNG HALL

Also built in 1926, this dormitory for women was named for Judge Allie W. Young, to whom goes most of the credit for the establishment of the college at Morehead and for its early success. He was a member of the first Board of Regents and served in that capacity until his death in 1935. This dormitory has 68 rooms. The Department of Art and the Divisions of Public Relations and Field Services are housed on the ground floor.

FIELDS HALL

Named in honor of the wife of Governor William Jason Fields, the women's dormitory was completed in 1927 and has 80 rooms. Mrs. Fields was the first woman appointed to the Morehead Board of Regents, serving in that capacity from 1924 to 1928. The ground floor of this building includes office and classroom space for the Division of Languages and Literature.

THOMPSON HALL

This dormitory was first occupied in 1927 and was named for the Honorable J. H. Thompson of Bourbon County who served as Speaker of the House of Representatives at the time the bill was passed which authorized the establishment of the college. The building contains 82 student rooms and the ground floor provides quarters for the Little Theater and classes in dramatic art.

MEN'S HALL

This dormitory for men, completed in 1937, contains 99 rooms. Like all the other residence halls, it is modern throughout and is well equipped and furnished.

PRESIDENT'S HOME

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

BUTTON AUDITORIUM

Button Auditorium, dedicated to the memory of Frank C. Button, first president of the college, is a building which contains the main auditorium and also houses indoor physical education facilities. The auditorium, main floor and balcony, has a seating capacity of 1,500 and that portion of the building that is used for physical education includes the facilities essential to a modern program in this important field of education.

BRECKINRIDGE TRAINING SCHOOL

The Robert J. Breckinridge Training School was completed in 1931. Named in honor of the sixth Superintendent of Public Instruction of the Commonwealth, who did so much for the public schools of the state, this building houses a complete twelve-grade school program and serves as the laboratory school of the college.

JAYNE MEMORIAL STADIUM

Jayne Memorial Stadium, built in 1930 as a memorial for W. L. Jayne who served as a member of the faculty from 1924 until his death in 1930, is a concrete structure with a seating capacity of 2,000. The space beneath the stadium is utilized for dressing quarters for home and visiting teams.

SENFF NATATORIUM

Located west of Button Auditorium is Senff Natatorium named in honor of Judge Earl Senff who served as a member of the Board of Regents from 1926-1930 and from 1932-1936. During these periods he also served as Secretary of the Board. The building contains a ninety-foot by thirty-foot swimming pool, a spectators' gallery, and dressing and shower rooms. The filtration and purification facilities are such as meet the highest standards of health and sanitation.

LAPPIN SCIENCE HALL

This four-story brick structure was completed in 1937 and was named Lappin Science Hall in 1958 honoring Warren C. Lappin who was completing his thirty-fifth year of service to the college as an instructor, as Director of the Training School, and since 1940 as Dean of Instruction. The building houses the departments of—industrial arts, agriculture, geography, mathematics and physics, biology, chemistry, and home economics. The classrooms, laboratories, and shops are furnished with the most modern apparatus and equipment.

HOME MANAGEMENT HOUSE

The Home Management House, an attractive modern residence, was purchased by the college in 1933. It serves as a laboratory in homemaking for the students in home economics. All majors in home economics are required to complete a period of residence in this home.

POWER PLANT

The Power Plant, completed in 1936, furnishes water, power, and heat for the college. It assures Morehead one of the best water systems in the state.

MACHINE SHOP

The Machine Shop was first used by classes in 1949. This building is equipped as a general machine shop and affords students an opportunity to gain experience in sheetmetal work as well as to gain facility in the use of machines used in processing heavier metals.

JOHNSON CAMDEN LIBRARY

This white stone building, occupying a prominent place in the center of the campus, bears the name of the Honorable Johnson Camden, former United States senator from Kentucky. The library has reading rooms and research facilities for 2000 students, and a book-housing capacity of 100,000 volumes. At present there are approximately 50,000 catalogued books, an extensive magazine section, and a large collection of bulletins, pamphlets, and public documents.

BAIRD MUSIC BUILDING

Baird Music Building was first occupied in 1953 and the following year was dedicated to the memory of William Jesse Baird who died while serving as the fifth president of the college. This building contains offices, classrooms, practice and ensemble rooms, and a large rehearsal hall which is also used for recitals and concerts. Constructed in keeping with the most recent thinking concerning buildings of this type, facilities are provided for carrying on a comprehensive program in this field of growing interest.

FIELDHOUSE

The first basketball game was played in the Fieldhouse in December of 1956. This building, which has a spectator seating capacity of 5,000, contains all of the features considered to be desirable in a structure of this type. This addition to the physical plant gives Morehead basketball facilities that are modern in every respect.

DORAN STUDENT HOUSE

This student-center on the campus was completed in 1957 and was named by the Board of Regents the Doran Student House in honor of Adron Doran, the seventh president of the college, whose administration of the institution began in 1954, and who was instrumental in securing this much needed addition to the physical facilities of the college. The building contains an air conditioned cafeteria and grill; the college bookstore and post office; club rooms, lounges, and recreation facilities for both students and faculty.

MEN'S DORMITORY

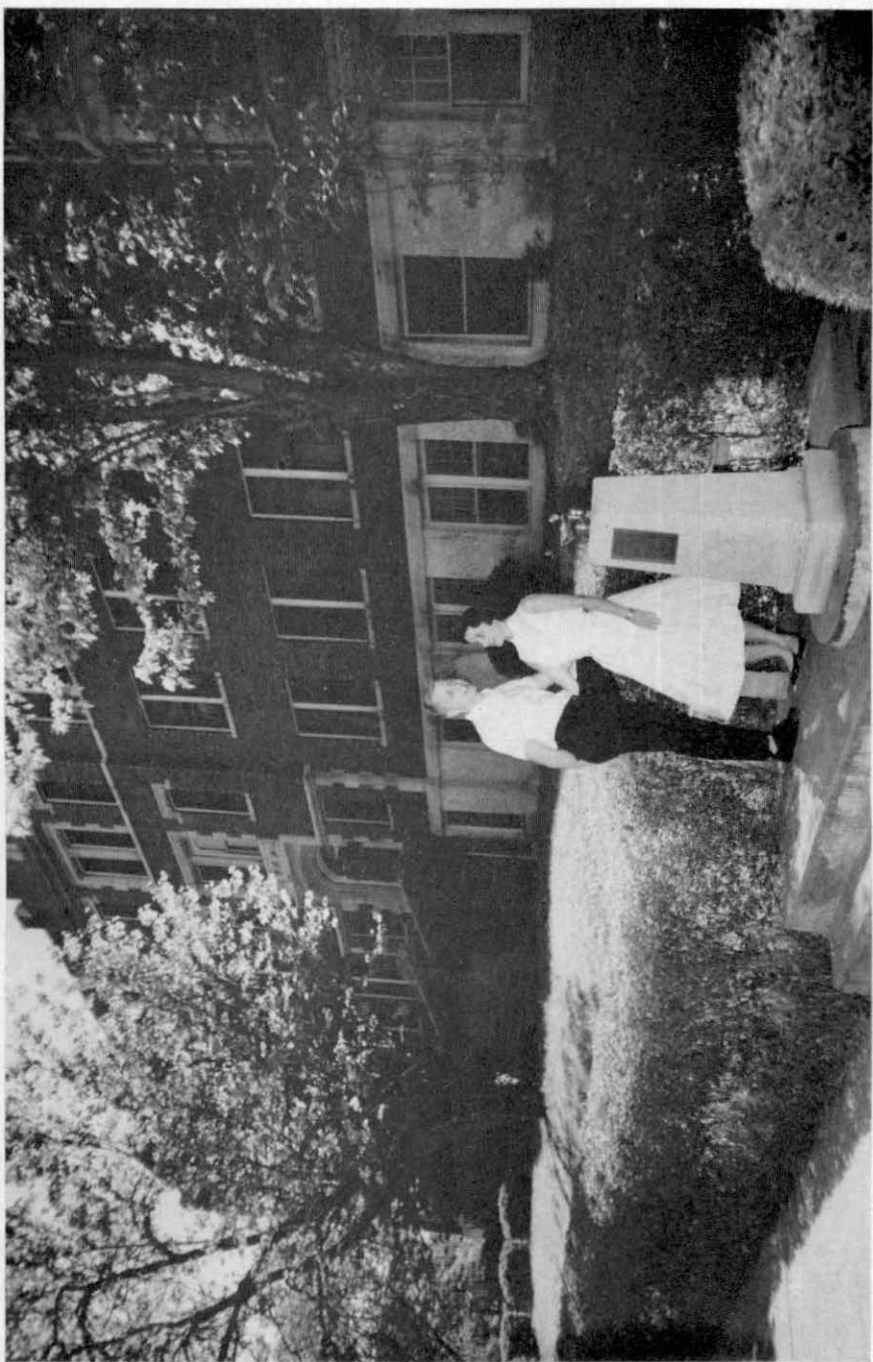
To take care of the increased enrollment of the college, plans have been completed and contracts signed for the construction of a new dormitory for men that will contain 201 bedrooms. The architecture of this building will be in keeping with that found in the other buildings on the campus and the contractors are expected to have it ready for occupancy by February 1960.

HOUSING CENTER

A second building project that is being undertaken is that of a housing center for married students and faculty. When completed, the center will include one hundred studio apartments and one- and two-bedroom apartments, and will compare favorably with facilities of this type regardless of location.

*North Main
Hall*

*Lakeview
Terrace*



Instructions To Students

PROCEDURE FOR ADMISSION

All correspondence concerning admissions should be addressed to the Registrar, Morehead State College, Morehead, Kentucky.

REQUIREMENTS FOR ADMISSION

ADMISSION TO THE FRESHMAN CLASS:

Without Examination. Graduates of high schools accredited by the Kentucky Association of Colleges, Secondary and Elementary Schools and by the State Department of Education are admitted without examination, provided they have earned credit for 15 units of high school work acceptable to Morehead. No specific courses are required for entrance, but not more than four units in one subject field will be accepted. If credit in foreign language is offered for entrance, at least one unit in the language must have been earned.

By Examination. Students who have earned 15 units of high school credit acceptable for college entrance may enter Morehead provided they pass an entrance examination satisfactorily.

Special 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 of this college by the person certifying to them and must be on file at the time of registration.

ADMISSION TO ADVANCED STANDING:

Students entering Morehead from other colleges must present a statement of honorable dismissal from the college 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 before the time of registration.

ADMISSION AS A SPECIAL STUDENT:

Students 21 years of age or over, who have not met the entrance requirements of the college may be admitted as special students and are permitted to carry courses for which they are prepared. Special students are not considered as candidates for any degree or certificate until they have fulfilled college entrance requirements, or until they have completed 64 hours of residence work with a minimum standing of 2.5, as well as all other requirements for the degree or certificate in question.

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 Instruction. No credit will be given

for this work, nor will the student be permitted to take an examination for credit.

ADMISSION TO THE GRADUATE SCHOOL:

Regulations governing admission to the graduate school are explained in detail on page 61 of this catalog.

CREDIT GRANTED TO VETERANS FOR SERVICE

Credit for specialized courses taken while in the military service may be allowed on the basis of proficiency examinations, information compiled by the American Council on Education and/or the recommendations of the Armed Forces Institute.

Credit for courses completed while in service, will not be granted until after the student has been in residence at this college for one term.

WHEN TO ENTER

The school year is composed of two semesters of eighteen weeks each and one summer term of eight weeks. It is desirable, of course, that students enter at the beginning of the Fall Semester, since the year's work is organized to start at that time. By attending during all terms, it is possible for capable and ambitious students to complete the four years of college work in three and one-half years. It is important that all prospective students should note the latest date at which they may enter if they are to carry a full load and receive full credit.

WHAT TO BRING

Students expecting to room in the dormitories should bring the following articles: laundry bag, a pair of blankets, window curtains, and necessary toilet articles, including towels. The school provides pillow cases, sheets and bedspreads and has them laundered. Students who plan to room in private homes should ascertain before coming to school the articles they will be required to furnish.

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 College, to the Dean of Students prior to entrance.

RESERVING ROOMS IN DORMITORIES

Anyone desiring a room in one of the college dormitories should write the Dean of Students and enclose \$36.00 to secure a reservation. This should be done prior to August 1. This amount constitutes one-half of the room rent for one semester and is so applied at the time the student enrolls. After making this deposit, a student desiring to cancel his reservation may do so by notifying the Dean of Students 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 Dean of Students and room assignments are not completed until satisfactory arrangements for all college expenses are made with the Business Office.

DORMITORY LIFE

Students living in the dormitories are expected to care for their rooms, and keep them clean, orderly, and *ready for daily inspection*. The college 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 college 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 students are expected to room on the campus unless they are granted permission by the Dean of Students to room elsewhere.

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

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. The college does not attempt to collect rents or to act in any way as a collection agency.

ROOMS FOR MARRIED COUPLES

The college maintains a limited number of rooms for married couples and, in addition, a number of apartments are available on the campus for the use of families.

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

BOARDING FACILITIES

Boarding facilities are provided in the college cafeteria and the cost will average approximately \$10.00 per week.

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.

FAILURE IN OTHER COLLEGES

Students who have been denied the privilege of re-entering, or have been dismissed from other colleges, will not be permitted to enter Morehead State College until such time as they would be permitted to re-enter the institution from which they were dismissed. Exceptions to this regulation may be made provided the institution concerned recommends acceptance of the student.

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. Students will not be permitted to register at the regular registration period and then enter school at a later date.

CHANGE IN SCHEDULE

Every student upon entrance must prepare a schedule of courses approved by a faculty adviser. This program cannot be changed, except by permission of the Dean of Instruction and the instructors concerned.

Courses not recorded in the Registrar's Office will carry no credit.

A fee of \$1.00 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 regular student may carry each semester is 12 semester hours, and the normal amount is 16 semester hours. A freshman will not be permitted to carry more than 17½ semester hours, including one hour in Freshman Orientation, during his first semester in residence.

A student who has earned a quality-point standing of 3.0 during the previous term may schedule not to exceed 18 semester hours with the permission of the Dean of Instruction; 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; 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; 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.

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 and the maximum load that may be carried by a graduate student during a semester is 16 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 grade of work done by students will be marked 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 days of the next term in residence, if credit is granted. Otherwise the mark automatically becomes an "E.")

THE NUMBERING OF COURSES

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

A minimum of 43 semester hours of work offered for a 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 Director of Graduate Study.

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 3.00.

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 .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 residence work completed at Morehead is considered.

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 does not bring his standing up to at least 1.7 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 second semester. In this

case, he may be permitted to take a full load in approved courses (generally courses in which low marks have been earned during the academic year) the following summer. He will then be removed from the probation list if his total standing for both semesters and the summer term is 1.7.

A student who has been dropped for poor scholarship may re-enter after the lapse of one semester. After being dropped for poor scholarship the second time, he is not eligible for re-admission.

ABSENCES

When a student enrolls he is expected to attend all regular exercises of the college. Class absences seriously hinder scholarship and the college authorities request the cooperation of parents 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 Instruction.)

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 College Nurse, the Dean of Students, or a physician.
2. Representing the College. If the absence has occurred because the student was representing the College in a recognized activity—music, athletics, etc.,—lists of such students are sent to the instructors by the Dean of Students.
3. Authorized Field Trips. Lists of students participating in authorized field trips are sent to the instructors by the Dean of Students.
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 absences are reported to the Dean of Instruction.

*The difference between excused and unexcused absences is—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 College, it is with the definite understanding that they agree to abide by the regulations

of the institution. The authorities of the college, in cooperation with the students, will make whatever regulations are deemed necessary from time to time.

WITHDRAWALS

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

EXPENSES

The incidental fee for students residing in Kentucky is \$45.00 for each semester. The incidental fee for students residing outside Kentucky is \$90.00 per semester. This incidental fee is payable at the time of registration.

TERMS OF PAYMENT

All fees and room rent are payable in advance at the time of registration. Remittance should be made by check drawn to Morehead State College.

The college has a special payment plan for those who are unable to pay the entire expenses for the semester at the time of registration. This plan enables the student to pay his fees in installments during the semester, the first payment being made at the time of registration and the final payment made at least two weeks before the close of the semester. Information concerning this special arrangement may be obtained by writing the Business Manager, but permission to use this plan will be granted only when absolutely necessary.

Students will not be permitted to attend classes until their registration cards have been approved by the Business Office, and such approval will be given only after satisfactory financial arrangements have been made.

MEDICAL FEE:

Each dormitory student is charged a medical fee of \$3.00 a semester which is payable at the time of registration. The payment of this fee entitles a student to the services of the school nurse and to the services of a physician for minor ailments.

LAUNDRY FEE:

Each dormitory student is charged a laundry fee of \$2.25 a semester which is payable at the time of registration. This fee covers the rental charge on sheets, pillowcases, and bedspreads furnished by the College and provides laundry services for them.

STUDENT ACTIVITIES FEE:

To cover the cost of attending all athletic contests in Morehead sponsored by the college, special entertainments scheduled during the semester, including the Civic Concert Series and a subscription

to the Trail Blazer, a fee of \$5.50 a semester is charged to all students carrying more than six hours. The payment of this fee entitles a student to free participation in the activities indicated. A fee of \$1.00 is charged during the summer session.

LABORATORY FEE:

No special laboratory fees are charged at Morehead but a general laboratory fee of \$4.50 a semester is collected from all students carrying more than six hours. This fee is payable at the time of registration.

SWIMMING FEE:

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

Faculty members and employees of the college 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 Breckinridge Training 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.

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.

YEARBOOK FEE:

In compliance with a request made by students, a fee of \$5.00 is charged for the Raconteur, the college yearbook. Two dollars is collected when the student registers for the First Semester and pays for the individual picture in the yearbook. The remainder of the fee is collected at the time of registration for the Second Semester. Students registering for the Second Semester who have not been enrolled during the First Semester pay the entire amount of the fee at the second-semester registration.

FEE FOR LATE REGISTRATION:

Students who enroll after the day of registration are required to pay an additional fee of \$3.00 for each day they are late.

FEE FOR CHANGE OF SCHEDULE:

A fee of \$1.00 will be charged for each voluntary change which a student makes in his schedule after it has been prepared and approved at the time of registration. Students are advised to give careful study to the program of classes and the requirements to be met before having their class schedules approved. If a change in schedule is requested by the Dean, the student will not be expected to pay this fee.

EXPENSES AT MOREHEAD FOR ONE SEMESTER:

Incidental fee	\$ 45.00*
Room rent	54.00**
Board estimated at \$10 per week	180.00
College post office box rent75
Estimated cost of books	20.00
Laboratory fee	4.50
Student activity fee	5.50
Raconteur fee	2.00***
Medical service	3.00
Laundry service	2.25
<hr/>	
	\$317.00

*For residents of Kentucky. Out-of-state Incidental Fee—\$90.00

**This figure beginning first semester 1960-61—\$72.00

***Total Raconteur Fee—\$5.00, collected as follows: For students who enroll for both semesters of the school year—\$2.00 at the first semester registration and \$3.00 at the second semester registration; for students registering only for the second semester—\$5.00 at the second semester registration.

EXPENSES TO BE PAID IN ADVANCE FOR ONE SEMESTER:

Incidental fee	\$ 45.00
Room rent in the dormitories	54.00
College post office box rent75
Laboratory fee	4.50
Student activity fee	5.50
Raconteur Fee	2.00
Medical service	3.00
Laundry service	2.25
<hr/>	
	\$117.00

PART-TIME FEES:

The Incidental Fee for undergraduate students who are residents of Kentucky and enrolled for less than twelve hours of work during a regular semester is \$4.00 per semester hour. This fee for out-of-state students is \$8.00 per semester hour.

The Incidental Fee for graduate students who are residents of Kentucky and enrolled for less than nine hours of work during a

regular semester is \$5.00 per semester hour. This fee for out-of-state students is \$10.00 per semester hour.

All students enrolling for more than six hours during a semester are required to pay the regular laboratory and activity fees.

FEES FOR GRADUATE INSTRUCTION:

Residents of Kentucky — \$5.00 per semester hour. Maximum \$60.00.

Out-of-state students — First nine hours, \$10.00 per hour. Next three hours, \$5.00 per hour. Maximum \$105.00.

CREDIT:

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

All previously incurred expenses at the college 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.

OPPORTUNITY FOR STUDENT EMPLOYMENT

The college has made it possible for a limited number of students to earn a part of their expenses, such as board or room rent, or both, by doing various kinds of work. The work opportunities available are in the cafeteria, dormitories, offices, and various buildings. Other students may find employment of various types in Morehead. Students desiring employment should apply for information to the Dean of Students.

Since the entering student cannot always find immediate employment, it is recommended that no new student register unless he has sufficient funds to cover the expenses of the first semester. It is not advisable for a student to spend more than 20 hours per week on outside work if he is carrying an average college program.

Students desiring employment should note the following regulations:

1. The following classes of students are eligible to be appointed for employment: a. Students whose character and previous record give promise of successful college work; b. Individuals who are in need of financial assistance.

2. Employment is contingent upon the student's satisfactory performance of all his college duties, cheerful conformity to all

college regulations, maintenance of proper standards of conduct, and the economical use of both time and money.

3. Students who are given employment by the college are expected to carry a normal schedule of work unless specifically excused by action of the Dean of Instruction.

4. Employment may be terminated at any time if the worker is not performing his assigned tasks satisfactorily.

5. All students employed by the college must maintain an average mark of "C" or better.

6. Students employed by the institution are expected to perform their duties regularly and will not be allowed substitutes on week-ends.

SCHOLARSHIPS

A number of scholarships are available to worthy 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. Unless otherwise noted, all scholarship awards are made on the recommendation of the Committee on Fellowships, Scholarships, and Student Aid and the right is reserved by this committee to administer competitive examinations to applicants.

General Scholarships — The college has provided for fifty scholarships, each carrying a stipend of \$50.00 a semester, which are available to any students who meet the institutional requirements for such awards.

Music Scholarships — A number of scholarships are granted to students who demonstrate special proficiency in music. The amount of the stipend varies according to need, proficiency and interest. These scholarships are administered by the Department of Music.

Morehead Women's Club Scholarships—The Morehead Women's Club has established two scholarships for worthy young women. The recipients of these awards receive grants of \$100.00 per year.

Alumni Scholarships — The Morehead Alumni Association has initiated a plan to provide a number of scholarships carrying stipends of \$100.00 each.

Button Memorial Scholarships. The alumni of the Morehead Normal School, the forerunner of Morehead State College, provide for two scholarships which pay the regular college 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 1947 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 Division of Science and Mathematics. The

amount of the scholarship is one hundred dollars, which is to be applied to the next year's expenses at Morehead.

Home Economics Club Scholarship. The Morehead Home Economics Club makes a scholarship grant of \$100 a year to an outstanding prospect in the field of home economics.

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."

Basketball Tournament Scholarships. The basketball teams of Breckinridge Training School, Morehead High School, Morgan County High School, and Sharpsburg High School participate in a tournament each year, the proceeds of which are used in partial payment of the expenses at Morehead of a student from each of these schools.

Keeneland Foundation Scholarships. The Keeneland Foundation has made arrangements whereby four four-year scholarships are available to worthy students. Each of these scholarships carries a stipend of \$300 per year.

Harbison-Walker and Southeast Coal Company Scholarships. The Harbison-Walker Company of Olive Hill and the Southeastern Coal Company of Whitesburg, Kentucky, award a number of scholarships each year to prospective students of their own choice. Several of the students receiving these awards have enrolled at Morehead.

NATIONAL DEFENSE STUDENT LOAN PROGRAM

The National Defense Student Loan Program was authorized by the National Defense Education Act of 1958. In accordance with law and regulations, the college has agreed to establish a special student loan fund. The amount of money available for loan to students will depend upon the amount Congress is willing to appropriate.

Any full-time student whose academic record is satisfactory and any prospective student (high school graduate) whose record indicates that he is capable of performing satisfactory college work is eligible to apply for a loan. Each applicant must demonstrate genuine financial need.

The law provides that special consideration must be given to students with superior academic background and who express a desire to teach in elementary or secondary schools, and also whose academic background indicates a superior capacity or preparation in

science, mathematics, engineering, or a modern foreign language. The interest rate on loans is 3 per cent.

Applications for a loan and inquiries concerning the program should be sent to the Dean of Students.

AWARDS AND PRIZES

Inkpot Awards—The *Inkpot* annually awards three prizes for outstanding manuscripts submitted by freshman writers. The awards, presented during a spring convocation program, are made for the best entries in the following fields: fiction, essay, poem. Winning manuscripts are published in the *Inkpot*, and each award-winner receives a pen-and-paperweight desk set.

Inez Faith Humphrey Awards in English Literature—These awards, honoring Miss Humphrey, who served for many years as a valued member of the English Department, are presented annually to the authors of outstanding manuscripts in creative writing. Entries may be submitted by any junior or senior who is a full-time student in residence during the year in which the awards are granted and who has maintained a grade average of "C" for the first semester and for the second semester up to the closing date for submission of manuscripts. Awards are made in the categories of poem and play one year, and in the categories of story and essay the following year. Each of these awards amounts to approximately seventy-five dollars.

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 give residence credit. No in-service teacher is permitted to earn more than six hours during a semester, or twelve hours during the school year, of undergraduate credit; and no in-service teacher is permitted to earn more than four hours during a semester, or eight hours during the school year, of graduate credit.

These classes are included in the regular class schedules that are issued each term.

EXTENSION AND CORRESPONDENCE COURSES

EXTENSION COURSES:

The College 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 \$130.00 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 \$6.50 a semester hour will be charged each student.

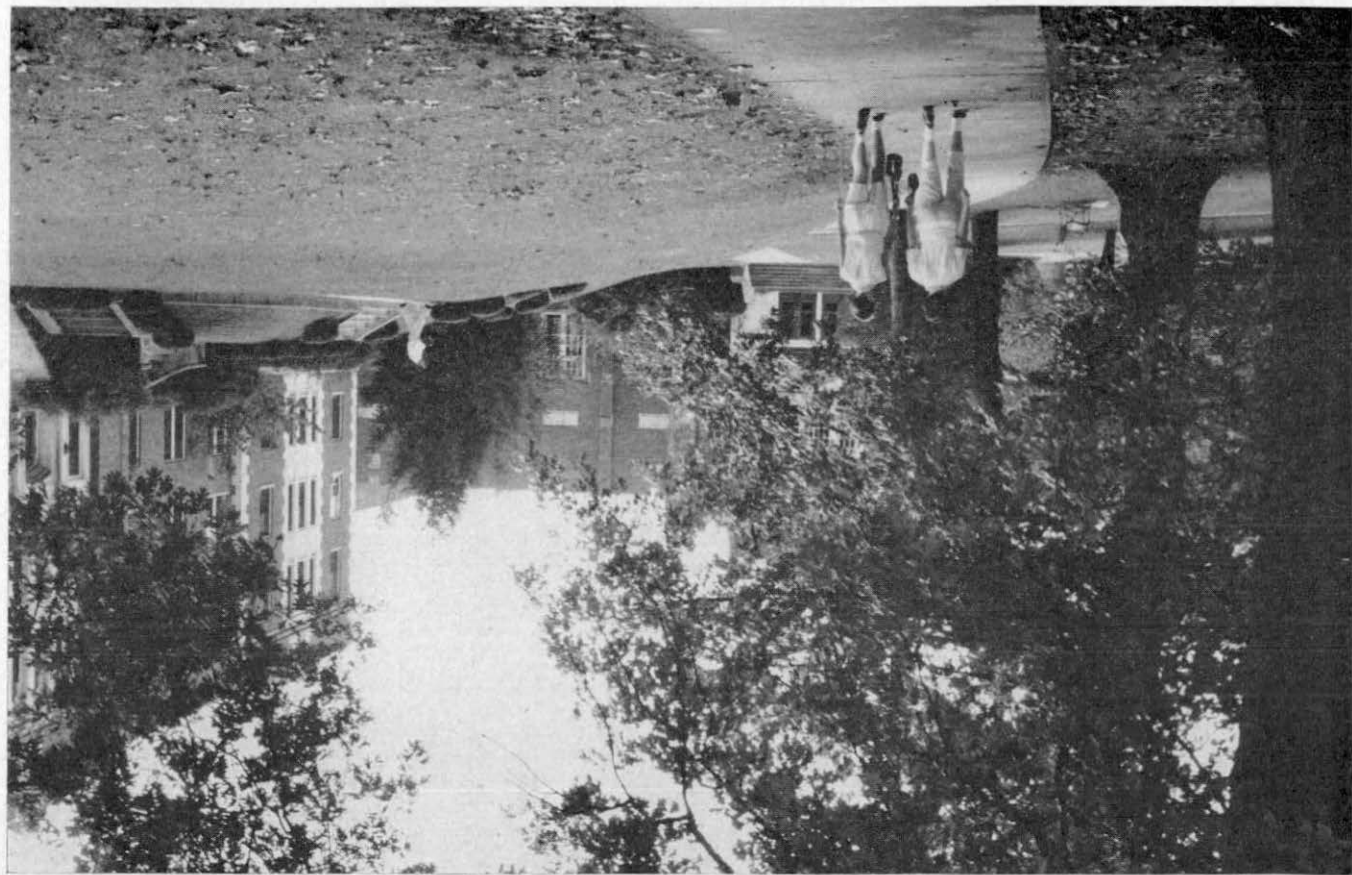
The College is also in position to offer a limited number of graduate courses in suitable study centers. Enrollment in these courses is limited to graduate students and the fee for a three-hour graduate course is \$480.00. The minimum individual fee for a graduate course by extension is \$8.00 a semester hour.

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

CORRESPONDENCE COURSES:

Morehead also offers college courses by correspondence. The fee for this work is \$6.50 a semester hour.

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



Information of Particular Interest To Freshmen

1. What has been the history of the college?

Morehead State College was established in 1922 and has operated continuously since September, 1923. For a more complete statement see page 21 of this bulletin.

2. Is Morehead an accredited institution?

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

- a. The Southern Association of Colleges and Secondary Schools.
- b. The National Council for the Accreditation of Teacher Education.

3. What types of training are offered at Morehead?

The college offers several types of training. These are—

- a. A four-year program for elementary teachers.
- b. A four-year program for high school teachers with opportunities for major study in agriculture, commerce, economics and sociology, English, modern languages, history, political science, biology, chemistry, geography and geology, mathematics, physics, art, music, home economics, industrial arts, physical education and speech and dramatic art.
- c. A four-year program of general academic training with the same opportunities for major study as those listed above. This program does not prepare for teaching.
- d. A four-year program qualifying Smith-Hughes teachers of vocational home economics.
- e. Graduate work leading to the degree of Master of Arts in Education.
- f. One- and two-year programs for stenographers and secretaries.
- g. A four-year program in commerce.
- h. Preliminary training for professional study in medicine, dentistry, law, pharmacy, engineering, veterinary medicine, medical technology, nursing, forestry, 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 college 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 9 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 his 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 Dean of Students. For a more complete statement see page 37 of this bulletin.

6. What are the requirements for admission at Morehead?

Our admission requirements are similar to those of any standard four-year college. A complete statement of these requirements may be found on page 27 of this bulletin.

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

Anyone wishing to be admitted to the college should write to the Registrar, Morehead State College, Morehead, Kentucky. The Director of Public Relations will then send to the student all necessary forms and instructions for completing the application.

8. What are the requirements for graduation at Morehead?

To graduate at Morehead you must earn a minimum of 128 semester hours of college 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.

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 College Calendar for information concerning the Orientation Schedule.

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

The incidental fee for Kentucky students is \$45.00 per semester and for out-of-state students this fee is \$90.00. An itemized list of the usual expenses of students is estimated on page 36 of this bulletin.

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

The college plant includes four dormitories, two for men and two 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 limited 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 college also operates its own cafeteria. 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 college 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 49 of this catalog.

Auxiliary Agencies

HEALTH PROGRAM

The college maintains an infirmary on the first floor of Fields Hall under the constant supervision of a resident nurse. A part of the \$3.00 medical fee charged each student at registration is for the upkeep of the infirmary and for this small fee any and all students may receive medical advice at stated times, and on other occasions by appointment. Minor ailments receive immediate attention, and such minor operations are performed as practitioners usually perform, but no major operations are performed in the college infirmary.

LYCEUM AND SPECIAL ENTERTAINMENTS

A portion of the activity fee, paid by each student at registration, is used by the college 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 activity tickets) 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 college year special speakers and lecturers are invited to come to the college. 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.

RELIGIOUS ENVIRONMENT

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

There are nine churches in Morehead, representing the following denominations: Baptist, Catholic, Christian, Methodist, Church of God, Episcopal, Church of Christ, 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 themselves with the church of their choice and to find a church home. All denominations are represented in the college faculty, who for the most part have their memberships in the Morehead churches.

CONVOCATION EXERCISES

Convocation exercises are held on Thursday of each week. Special meetings may be called on other days of the week, as occasion may demand. These programs are an integral part of the institutional life. 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. All students are required to attend.

One-half hour of credit is deducted from the student's total credits for each unexcused absence from the Thursday convocation.

ATHLETICS

The college 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 by the college.

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

COMMENCEMENT

The college 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 college degree are required to participate in the commencement exercises unless excused by the Dean of Instruction.

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

TRAIL BLAZER

The Trail Blazer, official newspaper of the Morehead State College, is published bi-weekly by the student body. The Trail Blazer is a member of the Kentucky Intercollegiate Press Association and has gained state-wide recognition in contests sponsored by the association. Students who have had journalistic experience or who are interested in the newspaper field are encouraged to try for staff positions.

INKPOT

The Inkpot, the literary magazine, provides a publishing medium for those students and alumni who are interested in creative writing. This magazine is issued periodically and is sponsored by the Division of Languages and Literature.

RACONTEUR

The Raconteur, the college year book, is published annually by the senior class. This book, containing as it does a history of the college year in pictures, is a valued possession of all Morehead students.

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 college 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.

Student Organizations

The Morehead Players, the college 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. It is the production unit in dramatic arts and speech. The College Auditorium, Breckinridge Auditorium, and the scene shop furnish opportunities for testing theories with practice for public and experimental productions.

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.

Beaux Arts Club is a group of art-minded students who organized in the fall of 1935 to stimulate an interest in the fine arts and crafts and also to foster a congenial atmosphere for engaging in art activities. All applicants must submit some art work or give an art appreciation talk. These are judged by the membership committee. Some of the activities of this organization are the sponsoring of: (1) a trip to the Cincinnati museum and other places of art interest each term; (2) art competitions; (3) art demonstrations; (4) art plays; and (5) making of favors and programs for activities on the campus.

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.

The *Crescendo Club* is composed of students who are interested in music and musical activities. Its purpose is to foster appreciation of music by means of interesting programs, participation in small ensemble groups, and assisting in attaining better community programs.

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.

The Campus Club is an organization whose membership is open to men students upon invitation. Members are selected from those students who have demonstrated ability as leaders on the campus. A scholastic standing of two is prerequisite for pledging.

The Agriculture Club is composed of men who are interested in the study of agriculture and who are also concerned with doing something that will make them capable of becoming better citizens. During the past two years this club has been very active and its members have contributed their special abilities to the general welfare of the college. Much of the landscaping found on the campus at the present time has been done by this organization.

Student National Education Association. The SNEA 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 groups.

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.

Alumni Association. The purpose of the Alumni Association is to stimulate mutual interest between the college 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. Meetings are held during the Homecoming celebration in the Fall.

Kappa Mu was organized in 1938. Membership is composed of majors and minors in commerce who maintain a scholastic standing of better than "C," with a superior standing in commerce. The purpose of the club is to develop interest in commercial activities and at the same time to promote a better understanding between students and faculty through an interesting and instructive social program. Meetings are bi-monthly.

The 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."

The Women's Recreation Association is an organization open to all women students interested in participating in any form of physical activity. Tournaments for the various sports are held during the proper season. The entire group holds meetings at the call of the council.

The MSTC (Mystic) Club was organized in memory of Coach Len Miller. This organization supervises the elections of cheerleaders and is in charge of all pep rallies on the campus. It fosters keen interest and participation in all sports.

The Student Council. This is the governing body of the Association of Morehead State College 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 College; and to develop in its members the desirable qualities of self-reliance, initiative, co-operativeness, high ideals, and loyalty. Membership on the Council is secured through election by the student body.

A.C.S. The Morehead branch of the American Chemical Society is made up of chemistry majors who are planning careers in chemistry. Topics of mutual interest are discussed at their meetings.

Open Forum. 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.

YWCA. The Young Women's Christian Association, a popular organization on the campus, sponsors a program that is both social and religious. While the primary purpose of the organization is to foster the religious life of the students, it often furnishes a very wholesome form of social life in the way of informal entertainments. For example, a picnic for the entire student body is an annual club project.

New students are invited to become members of this organization, and are especially invited to call upon the members for assistance in their efforts to align themselves with college life. There are no special requirements for membership, but regular attendance at the meetings on the first and third Thursdays of each month is expected.

Newman Club. The Newman Club is an international as well as a nationwide organization which is represented on most college and university campuses. Its purpose is to create unity among Catholic students in schools of higher learning.

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 by the membership of the club.

Wesley Club. The Morehead Wesley Club is one of many Wesley organizations in colleges 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. Not only are Methodist students invited to attend Wesley Club, but members of all faiths are welcome.

Baptist Student Union—The purpose of this organization is to strengthen, correlate, and unify all of the separate Baptist unit 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.

The Veterans' Club—Membership in this organization 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 extra-curricular program of the college; and to better enable students with mutual interests and a background of common experience to gather for fellowship.

Les Courants—This organization is 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.

The Cosmopolitan Club—This 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.



Degrees and Certificates

CURRICULA

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

1. Provisional Elementary Certificate and degree.
2. Provisional High School Certificate and degree.
3. Standard Elementary Certificate.
4. Standard High School Certificate.
5. Bachelor's degree without a certificate.
6. Bachelor's degree and the certificate in Vocational Home Economics.
7. Bachelor's degree with an area in business administration.
8. Provisional certificates for superintendents, principals, supervisors, and guidance counselors.
9. Standard certificates for principals, supervisors, and guidance counselors.
10. Degree of Master of Arts in Education.

DEGREES

The college awards two undergraduate degrees, the Bachelor of Arts and the Bachelor of Science. Each degree may be taken with or without a teaching certificate.

The degree of Bachelor of Science 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 the following subjects—agriculture, biology, chemistry, commerce, geology, home economics, industrial arts, mathematics, library science and physics. Students completing any of the other four-year curricula are granted the degree of Bachelor of Arts.

GENERAL REQUIREMENTS FOR THE BACHELOR'S DEGREE

The candidate for the 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 residence work completed at this college.
3. 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.)
4. Not less than 43 semester hours of work offered for the degree must be selected from courses numbered 300 or above.

5. The credits earned must include a minimum of 12 hours in natural science and 12 hours in social science. Three hours of the 12 hours required in social science must be earned in History 400.

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. The heads of the departments in the major and minor fields must approve the program to be followed before the blank is filed. Two majors, or one major and two minors, may be selected.

A student may choose his major or minor from any one of the subjects listed below:

Agriculture	Home Economics
Art	Industrial Arts
Biology	Mathematics
Chemistry	Music
Commerce	Physical Education
English	Physics
French	Political Science
Geography and Geology	Sociology and Economics
History	Speech and Dramatic Art

In addition to the available subject fields listed above, the student may complete a minor in—

Latin
Spanish
Library Science

AREAS OF CONCENTRATION

To meet the needs of high school teachers who will teach entirely in a general subject area, Areas of Concentration may be selected in lieu of majors and minors.

Provision for Areas of Concentration was made by the state authorities with three ideas in mind: first, more and more secondary teachers are teaching in one department or field of work; second, greater opportunity is afforded for integrated preparation; and third, with the greater emphasis on graduate preparation for secondary teachers, extensive knowledge in some general field becomes exceedingly important as an adequate background.

Areas of Concentration may be taken in the areas of

Social Science	Home Economics	Music
Science	Commerce	Art
	English	

Requirements for Certificates and Degrees

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	3
326 Teaching of Reading	3
333 Fundamentals of Elementary Education	4
427 Professional Semester	15
Minimum in Education	(29)

b. ENGLISH

101 Writing and Speaking	3
102 Writing and Speaking	3
201 Introduction to Literature	3
202 Introduction to Literature	3
Speech or Dramatic Art	3
Minimum in English	(15)

c. SOCIAL SCIENCE

History 400 American Foundations	3
(Required of all seniors who do not have credit for six hours of American history at the college level)	
*To be selected from economics, geography, history, political science and sociology	18
Minimum in Social Science	(21)

d. SCIENCE

101 Introduction to Biological Science	3
102 Introduction to Biological Science	3
103 Introduction to Physical Science	3
104 Introduction to Physical Science	3
Minimum in Science	(12)

e. FINE ARTS

Art	
121 Public School Art	3
221 Advanced Public School Art	2
Music	
100 Rudiments of Music	3
221 Music for the Elementary Teacher	2
Fine Arts	
160 Appreciation of the Fine Arts	2
Minimum in Fine Arts	(12)

f. LIBRARY SCIENCE	
227 Literature and Materials for Children.....	3
g. HOME ECONOMICS	
302 Nutrition for Elementary Teachers	2
h. HEALTH AND PHYSICAL EDUCATION	
100a Orientation in Physical Education	1½
100b Orientation in Physical Education	1½
Additional activity courses in the sophomore year	1
104 Personal Hygiene	2
320 Plays and Games for the Elementary School... Minimum in Health and Physical Education	2 (6)
i. FRESHMAN ORIENTATION	1
(Required of all first-semester freshmen)	
j. *ELECTIVE	27
k. See General Requirements for the Bachelor's Degree, p. 55 Minimum for the degree	128

*All elective courses must be selected with the approval of the student's adviser and the following factors are to be considered—

1. Each candidate for this certificate must complete a subject-matter minor.
2. The student's interests, strengths, and weaknesses are to be considered.
3. The selection should be made with the requirements of the program of the elementary school in mind. Among the more recent trends in this program are: emphasis on the study of science; including the study of foreign languages in the elementary program; strengthening the experiences in health and nutrition; added significance in the field of the fine arts; strengthening in work in mathematics; and the use of specialists at the elementary level—special teachers of art, music, health and physical education, speech and also elementary school librarians and guidance counselors.

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

a. EDUCATION	
100 Orientation in Education	1
210 Human Growth and Development I	3
477 Professional Semester	15
Minimum in education	(19)
b. ENGLISH	
101 Writing and Speaking	3
102 Writing and Speaking	3

- | | | |
|----------------------------------|--|-------|
| 201 | Introduction to Literature | 3 |
| 202 | Introduction to Literature | 3 |
| | Minimum in English | (12) |
| c. HEALTH AND PHYSICAL EDUCATION | | |
| 104 | Personal Hygiene and Public Safety | 2 |
| 285 | Community Recreation | 2 |
| | Activity courses in physical education..... | 2 |
| | Minimum in health and physical
education | (6) |
| d. MAJOR STUDY | | |
| | Two academic majors of not less than 24 semester
hours each; or one academic major or not less
than 24 semester hours and two academic minors
of not less than 18 semester hours each; or an area
of concentration of not less than 48 semester
hours | 48-60 |
| e. CORE CURRICULUM | | |
| | A minimum of 27 semester hours to be selected
from three or four of the following fields, not less
than six hours to be offered in any field..... | 27 |
| | (Two of these groups must be in fields different
from the majors and minors or area of concentra-
tion. One group may be in the same field but not
in the same subject as a major or minor). | |
| | 1. Fine Arts—art, dramatics and music | |
| | 2. Foreign Language | |
| | 3. Mathematics | |
| | 4. Science—biology, chemistry, physics, geology | |
| | 5. Social Science—economics, geography, history,
political science, sociology | |
| | 6. Vocational subjects — agriculture, commerce,
home economics, industrial arts, library science,
military science. | |
| f. | ELECTIVE | 4-16 |
| g. | See General Requirements for the Bachelor's De-
gree, page 55 | |
| | Minimum for the degree | 128 |

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

	Sem. Hrs.
a. One foreign language	12
b. English	12
c. Science—biology, chemistry, physics, geology.....	12
d. Mathematics	7
e. Social Science	12
f. Health and Physical Education	4

(At least two of these credits must be earned in activity courses)

- g. Two academic majors of not less than 24 semester hours each; or one academic major of not less than 24 semester hours and two academic minors of not less than 18 semester hours each; or an area of concentration of not less than 48 semester hours 48-60
- h. Elective 9-21
- i. See General Requirements for the Bachelor's Degree, page 55
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, chemistry, commerce, geology, home economics, industrial arts, library science, mathematics, 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, chemistry, commerce, geology, home economics, industrial arts, library science, mathematics, and physics; and (b) there is no foreign language requirement for this degree.

Graduate Study

Morehead State College offers a program of study leading to the degree of Master of Arts in Education. The program is designed to provide a fifth year of training for teachers in the elementary and secondary schools, supervisors, and administrators.

REQUIREMENTS FOR THE MASTER'S DEGREE

I. Admission to Graduate Work

1. Graduates of accredited four-year colleges are admitted to graduate work on application to the Director of Graduate Study. This application must be accompanied by a transcript of undergraduate credit.
2. Graduates of non-accredited colleges must meet the conditions for graduation at Morehead State College before their applications for graduate work will be approved.
3. If the student's undergraduate preparation is inadequate, this deficiency must be made up by taking designated courses which will not be counted for graduate credit.
4. The student's graduate program is pursued under the direction of a committee of three members. This committee is composed of two members appointed from the graduate faculty and the Director of Graduate Study.
5. The applicant for a degree must arrange a program of graduate work under the direction of his graduate committee, and he is not admitted to complete graduate standing until this program has been approved by his committee.

II. Admission to Candidacy

1. To be admitted to candidacy for the graduate degree, the student must have a minimum of 12 semester hours of undergraduate credit in education, including credit in student teaching; must secure approval of his complete graduate program, including his thesis problem, from his Graduate Committee; pass a comprehensive qualifying examination; and have the final approval of the Committee on Graduate Instruction.
2. The student may apply for admission to candidacy not earlier than the twelfth week of residence as a graduate student and must apply not later than the eighteenth week before the degree is granted.
3. Admission to graduate courses does not necessarily mean admission to candidacy for the master's degree.

III. General Requirements

1. The master's degree may be earned in either of two ways—
 - a. If the student elects to write a thesis, the degree may

be secured by completing a minimum of 36 weeks in residence and a minimum of 24 semester hours of work in regular courses. b. If the student so desires he may elect to do additional course work in lieu of writing a thesis. In this event the minimum requirements for the degree are 30 semester hours of credit and 36 weeks of residence. Students who expect to continue their training beyond the level of the master's degree are strongly advised to write a thesis.

2. The student is required to have an average standing of 3.0 on all work offered for the degree, and no credit is allowed for a mark below C.
3. Graduate students may enroll in certain upper division courses for which they are qualified, but at least 50 per cent of all course work must be in courses open only to graduate students.
4. One-half of the course requirements and one-half of the residence work must be done as a full-time graduate student.
5. The following will not be accepted for graduate credit:
 - (1) work done by the candidate as an undergraduate;
 - (2) work done in undergraduate courses as a special student;
 - (3) credit earned in courses in the lower division; and
 - (4) credit earned by correspondence.
6. In evaluating residence for part-time students, one semester hour of class work entitles the student to one and one-half weeks of residence. This regulation applies to students who carry less than a minimum full-time load.
7. Students holding what would ordinarily be considered as full-time positions are not permitted to receive graduate credit for more than four semester hours of work during any semester.
8. A maximum of six semester hours may be earned by extension or in another graduate school with the approval of the student's graduate committee.
9. The minimum full-time graduate load for a semester is nine semester hours. No graduate student is permitted to earn more than 16 semester hours of credit in any semester.
10. In all cases the requirements for the degree must be completed within five years from the date of beginning graduate work.
11. Before the master's degree is granted, the candidate must be qualified to receive a teaching certificate based on a four-year undergraduate curriculum. (The certificate referred to may either be a Kentucky certificate or a teaching credential valid in another state.)

Departmental Offerings

AGRICULTURE

Mr. Haggan

Objectives:

1. To help students in meeting the requirements in vocational agriculture and the work of the county agent.
2. To prepare students for positions in industry.
3. To aid students in becoming good farm managers.
4. To develop a greater appreciation of a rural way of life that leads to a higher standard of living.
5. To develop leaders for service in rural communities.

Requirements:

(The listed requirements are for those students taking agriculture as an academic major. They are also applicable toward requirements leading to degrees in agriculture and the teaching of agriculture under the Smith-Hughes Act.)

<i>For a Major:</i>	Sem. Hrs.
Agriculture 111, 180, 215, 237, 336, 415	20
Elective in Agriculture approved by the Department....	6
Total for a Major	26

<i>For a Minor:</i>	
Agriculture 111, 180, 215, 237	13
Elective in Agriculture approved by the Department....	6
Total for a Minor	19

For Smith-Hughes and County Agent Work the student should complete all of the courses in agriculture that are offered in this college. They should also enroll for the following courses in other departments:

Biology 210, 215, 304, and 317
 Chemistry 111, and 112
 Mathematics 101, or 151 and 152
 English 101 and 102
 Geology 101
 Speech 280 or 281
 Agriculture 170
 Agriculture 280
 Economics 149
 History 242

Note.—All students preparing for vocational agriculture or county agent work should consult the head of the department before making out a schedule of classes. All work in agriculture applying on a major or minor also applies on the requirements for vocational agriculture and the work of the county agent.

DESCRIPTION OF COURSES**Agriculture 101. General Agriculture. Three hours.**

The part the community plays in meeting national goals in agriculture production; studying the structure of a rural community and how it functions; the organizations that operate therein and how to use them for community betterment; the promotion of rural recreation and the development of hobbies; beautification of the farmstead and community; importance of animals and crops to the community; organizing the community's resources for the good of all; getting acquainted with field crops and farm animals, their improvement and care; making the family and community more self sufficient; and other related topics.

Agriculture 111. Soils. Four hours.

Prerequisite: Chemistry 111.

Origin of soils and their properties; supply and availability of plant nutrients; fertilizers, limes, manures—their care and applications; microbial populations; soil and plant relationships; crop production and soil fertility; testing soils for plant foods; conservation; terracing, drainage, contours, strip farming and related subjects.

Agriculture 133. Farm Livestock Production. Three hours.

Importance of livestock to agriculture; origin of cattle; beef cattle and types; market classification; feeder and stocker cattle—feeding and management, breeding; dairy and dual purpose cattle—milk secretion, milk production, consumption of milk, breeding; swine—types, breeding, market classes, feeding and management; sheep (same as for swine); horses and mules; farm and light horses.

Agriculture 170. Rural Sociology. Three hours.

Rural and urban contrasts in ways of life; patterns of rural settlement; types of rural communities; studies in rural population and migration; patterns of social interaction; rural social institutions—economic, school, church, family, government; social pathology and welfare; rural health, medical services and facilities. Special emphasis is laid on rural life in Kentucky and surrounding areas.

Agriculture 180. Elementary Field Crops. Three hours.

General farm crops and their classification; how to secure and produce quality seeds; kinds of pastures, meadows, and their improvement; recent crop introductions to Kentucky and their culture; modern agricultural machinery and its use in better seed bed preparation and harvesting; judging and grading of grains; better use of fertilizers, limes, manures, and crop residues; the cereals, legumes and other field crops; use of hormones in weed control; better methods of tobacco production.

Agriculture 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.

Agriculture 213. Elementary Landscape Design. Three hours.

The development and maintenance of lawns; selection, location, and care of deciduous and ornamental trees, herbaceous perennials, and evergreens; pruning and spraying of plants; planting of annuals, bulbs, and development of borders. Emphasis is placed on the use of suitable local materials, plants effective in the landscaping of school grounds, the rural church and cemetery.

Agriculture 215. Horticulture. Three hours.

Selection of site, location, etc.; adaptable commercial varieties; methods of planting the orchard; various systems of culture, fertilization and pruning; spraying for insects, disease and with the hormones preventing fruit drop; harvesting, storage and marketing.

Agriculture 237. Poultry. Three hours.

Survey of poultry industry; classification; anatomy and physiology; principles of breeding and practices; incubation and its problems; brooding and rearing principles and practices; feeding principles and practices; diseases and parasites; marketing eggs and birds; poultry farm management; turkey production and management.

Agriculture 280. Agricultural Economics. Three hours.

Prerequisite: Agriculture 201.

Development of agriculture and agricultural economics; farm population and farm life; price economy; geographic factors; interest, wages, and profits; proportioning of land, labor, and capital; farm credit; land tenure; and cooperative marketing movements.

Agriculture 301. Farm Management. Three hours.

Farm management functions; large and small scale operations; one crop farms compared with specialized type farms; relation of the farm to the farm family welfare; location of various type farms and size of farms for successful operation; adjusting farm production to markets and prices; what constitutes successful farming; farm layouts; economy in use of machinery; farm credit; tenantry, various forms of farm leases; and farm records.

Biology 304G. Genetics. Three hours.

Prerequisite: Biology 210 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, evolution.

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

Prerequisites: Agriculture 201 and 280.

Development of geographical specialization; demand for farm products, human and industrial; supply; bringing supply and demand together; meeting fluctuations in market prices, cyclic and seasonal; hedging in futures; reducing costs of marketing such as grain, livestock and livestock products, horticultural products; use of cooperatives.

Agriculture 311. Soil Conservation. Three hours.

Importance and application of soil-conserving methods, types of machinery needed; planning and managing individual farms; soil mapping, plants used, etc.

Agriculture 313G. Advanced Landscape Design. Three hours.

Prerequisite: Agriculture 213.

Woody plant materials used in planting design; identification of genera and species of deciduous and evergreen shrubs and ornamental trees; soil and site requirements; fertilization and mulching practices; propagation of important species; and techniques for the determination and control of plant pests and diseases.

Agriculture 314G. Plant Propagation. Three hours.

Methods of propagation for annuals, perennials, bulbs and tubers, and woody plants; use of cold frames, hotbeds, and greenhouses; seed bed preparation and transplanting techniques in lath houses; construction of cold frames, lath houses and storage buildings.

Agriculture 315. Small Fruits. Three hours.

Geographical distribution of the industry; development of varieties and their characteristics; grape, strawberry, raspberry, blackberry, loganberry, boysenberry, gooseberry, currant, etc.; planting, care, harvesting, marketing, frozen fruits and varieties best suited.

Agriculture 334G. Agricultural Entomology. Three hours.

Prerequisite: Biology 210.

General structure of insects, life histories, common orders and families, and insects in relation to man. Two lecture-discussion and two laboratory hours per week.

Agriculture 336. Dairying. Three hours.

Survey of the dairy industry in relation to numbers and national income; economics of the industry; important dairy breeds; types of dairy farming and breed selection; heredity and its use in improving animals; systems of breeding; purebred business; raising young stock, feeding and management; common diseases; market milk and its handling.

Agriculture 337. Dairy Cattle Feeding and Management. Three hours.

Comparison of breeds as economical dairy producers; adaptation to geographical areas; feeding and proper housing; judging;

pedigrees; registration in its various forms; dairy farm equipment; use of hormones; pastures.

Agriculture 384. Forage Crops. Three hours.

Prerequisites: Agriculture 180 and Biology 215.

Importance and choice of forage crops; seeds and seeding; meadows, pastures, and principal grass forage crops; principal legume forage crops; sorghums, root crops, hay, silage, etc. Emphasis on those crops used in Kentucky agriculture.

Agriculture 415G. Animal Nutrition. Four hours.

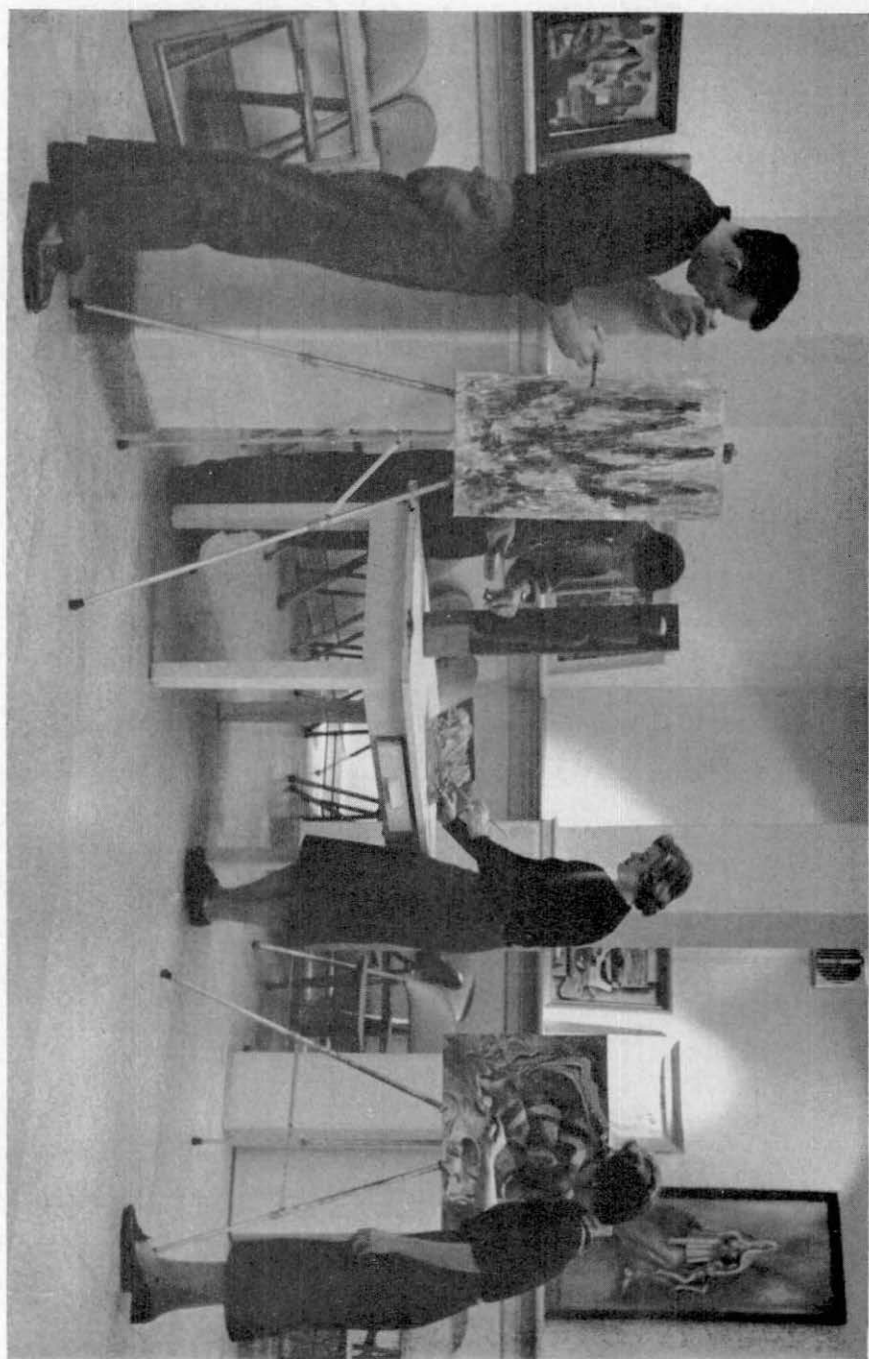
Prerequisite: Chemistry 111.

Digestive systems of the various kinds of livestock; nutritive value of various kinds of feeds; their effect on animal and product; compounding rations; vitamins; value of various kinds of pastures and legumes for forage; comparison of various kinds of silages.

Agriculture 434G. Plant Pests and Diseases. Three hours.

Prerequisites: Agriculture 111, Biology 215, 334, and 414; and Chemistry 111.

Identification of plant insects, diseases, and environmental diseases; causal agents and symptoms; interrelationships of diseases and insects; primary and secondary infestations; endemic and epidemic infestations; plant-soil-water relationships; mineral nutrition levels and their effect on growth, reproduction, and development.



ART

Mrs. Claypool

Mr. Young

Objectives:

1. 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.
2. 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.
3. To provide sound and basic experiences for those students who intend to continue with some form of creative work.
4. To help in building judgment and discrimination for those whose future role may well be that of patron instead of practicing artist.

Requirements:

For a Major: Sem. Hrs.

Art 101, 121, 161, 202, 221, 291, 263 or 264 or 465, 304, 311
or 314, 381, 412 or 415, 413, and 471 28

For a Minor:

Art 101, 121, 161, 202 or 291, 221, 263 or 264 or 465, 311 or
314, 341, and 471 20

For an Area of Concentration in Art:

Art 101, 121, 161, 202, 221, 263, 264, 291, 292, 303, 304, 311,
314, 341, 381, 394, 412, 413, 415, 455, 465, 482, and 471.... 51

Art majors will find it beneficial to include the following subjects in their programs: Elementary Mechanical Drawing, History of Civilization, General Zoology, a foreign language, and psychology.

SUGGESTED PROGRAMS

The following programs have been devised to help students in selecting their programs 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	Writing and Speaking	3	Eng.	102	Writing and Speaking	3
P. E.	100a	Orientation in Phys. Educ.	1½	P. E.	100b	Orientation in Phys. Educ.	1½
		Freshman Orientation	1	Educ.	100	Orientation in Educ.	1
Sci.	101	Intro. to Biological Sci.	3	Sci.	102	Intro. to Biological Sci.	3
Hist.	131	History of Civilization	3	Hist.	132	History of Civilization	3
Art	101	Drawing	2	Art	202	Composition and Drawing	2
Art	121	Public School Art	3	Art	161	Art Appreciation	3
				Art	221	Adv. Public School Art	2
<hr/>				<hr/>			
15½				17½			

MOREHEAD STATE COLLEGE

SOPHOMORE YEAR

First Semester			Second Semester		
Eng. 201	Intro. to Literature	3	Eng. 202	Intro. to Literature	3
P. E.	Activity course	$\frac{1}{2}$	P. E.	Activity course	$\frac{1}{2}$
Educ. 210	Human Growth and Development I	3	Geog. 100	Fundamentals of Geog.	3
Sci. 103	Intro. to Phys. Science	3	Sci. 104	Intro. to Phys. Science	3
Art 263	Hist. of Arch. and Sculpture	3	Art 264	History of Painting	3
Art 291	Color and Design	2	Art 292	Costume Design I	2
P. E. 104	Personal Hygiene	2	P. E. 285	Community Recreation	2
		<hr/> 16 $\frac{1}{2}$			<hr/> 16 $\frac{1}{2}$

JUNIOR YEAR

First Semester			Second Semester		
Educ. 333	Fund. of Elem. Educ.	4	Educ. 300	Intro. to Student Teaching	0
I. A. 103	Elem. Mechanical Drawing	3	I. A. 203	Advanced Mechanical Drawing	3
Art 303	Studio Problems	2	Art 314	Water Color Painting I	2
Art 304	Figure Drawing and Composition	2	Art 394	Stage Des. and Marionette Pro.	2
Art 311	Oil Painting I	2	Art 412	Oil Painting II	2
Art 341	Crafts I	2	Art 482	Commercial Art II	2
Art 381	Commercial Art I	2	Geog. 331	Europe	3
		<hr/> 17			<hr/> 14

SENIOR YEAR

First Semester			Second Semester		
Hist. 400	American Foundations	3	Educ. 477	Professional Semester	15
Art 413	Portrait Painting	2			
Art 415	Water Color Painting II	2			
Art 455	Advanced Art Problems	3			
Art 465	Modern and Contemp. Art	3			
Art 471	Seminar	1			
	Elective	2			
		<hr/> 16			

Provisional High School Certificate with a Major in Art

FRESHMAN YEAR

First Semester			Second Semester		
Eng. 101	Writing and Speaking	3	Eng. 102	Writing and Speaking	3
P. E. 100a	Orientation in Phys. Ed.	$\frac{1}{2}$	P. E. 100b	Orientation in Phys. Ed.	$\frac{1}{2}$
	Freshman Orientation	1	Educ. 100	Orientation in Educ.	1
Hist. 131	History of Civilization	3	Hist. 132	History of Civilization	3
Sci. 101	Intro. to Biological Sci.	3	Sci. 102	Intro. to Biological Sci.	3
Art 101	Drawing	2	Art 121	Public School Art	3
Art 161	Art Appreciation	3	P. E. 104	Personal Hygiene	2
		<hr/> 15 $\frac{1}{2}$			<hr/> 15 $\frac{1}{2}$

SOPHOMORE YEAR

First Semester			Second Semester		
Eng. 201	Intro. to Literature	3	Eng. 202	Intro. to Literature	3
P. E.	Activity Course	$\frac{1}{2}$	P. E.	Activity Course	$\frac{1}{2}$
Educ. 210	Human Growth and Development I	3		Elective in Social Sci.	3
Sci. 103	Intro. to Physical Sci.	3	Sci. 104	Intro. to Physical Sci.	3
Art 221	Adv. Public School Art	2	Art 202	Composition and Draw.	2
Art 263	History of Arch. and Sculpture	3	Art 291	Color and Design	2
or				Second Major	3
Art 264	History of Painting	3			
	Second Major	3			
		<hr/> 17 $\frac{1}{2}$			<hr/> 16 $\frac{1}{2}$

JUNIOR YEAR

First Semester			Second Semester		
Art 311	Oil Painting I	2	Ed. 300—Intro. to Student Teaching		0
or			Art 304—Figure Drawing		2
Art 314	Water Color Painting I	3	Art 381—Commercial Art I		2
I. A. 103	Elem. Mech. Drawing	6	IA 203—Advanced Mechanical Drawing		3
	Second Major	3	Second Major		6
	Elective in Social Sci.	3	Elective		4
	Elective	3			
<hr/>			<hr/>		
17			17		

SENIOR YEAR

First Semester			Second Semester		
Hist. 400	American Foundations	3	Educ. 477	Professional Semester	15
Art 412	Oil Painting II	2			
or					
Art 415	Water Color Painting II	2			
Art 413	Portrait Painting	1			
Art 471	Seminar	6			
	Second Major	6			
<hr/>			<hr/>		
14					

DESCRIPTION OF COURSES

Art 101. Drawing. Two hours.

Drawing with various media such as pencil, crayon, charcoal, and colored chalk; sketching—a study of textures, quick action sketches, contour drawings, figure composition, and drawing of the face; simple landscape sketches.

Art 102. Creative Art. One hour.

To give students who are afraid of the technical procedures of an art program the opportunity to engage in any type of art work they choose. Whether credit is earned will be determined by the number of art products made and the earnestness of the student.

Art 121. Public School Art. Three hours.

A study of what art and art appreciation are about; philosophy and methods of teaching art in the elementary grades; materials and tools; participation in individual and group activities suitable for the grades, both integrated with school subjects and otherwise, such as: drawing, painting, claywork, crafts, movies, puppet shows, bookmaking, feltograms, dioramas, descriptive and animated maps, murals, friezes, blockprinting, lettering, posters, stitchery and glass. Emphasis is placed on creative expression. Observations of art teaching in the Training School as required.

Fine Arts 160. Appreciation of the Fine Arts. Two hours.

(Not open to art majors)

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 in art 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 musical performances.

Art 161. Art Appreciation. Three hours.

A study of the basic foundations of art and the functioning of principles of design on the elements of art to enhance the quality of the art product; the qualities that are essential to good art in any field; study of the best works produced in the creative periods of civilization and art in daily living such as—art in the home, furniture, pottery, ceramics, textiles, dress, graphic arts, civic art, landscape gardening, metal work, photography, advertising, flower arrangement, hairdress, stage design, woodwork, art of the book, glass and the best paintings, architecture, and sculpture of the creative periods.

Art 202. Composition and Drawing. Two hours.

Prerequisite: Art 101.

Composing forms for still life, landscapes, figures, portraits and abstracts in various media such as—charcoal, colored chalk, pastel, fresco, and tempera; a study of combining line, light and dark, form, color, texture, space, and direction to produce fine quality in creative expression.

Art 221. Advanced Public School Art. Two hours.

The philosophy and methods of teaching art to children in the intermediate and upper grades; a study of materials, media, and tools suitable for different grade and age levels; getting, making and using inexpensive and homemade materials and tools; actual work with creative art activities as outlined in Art 121.

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; special reports are given by students; 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 structure.

Art 291. Color and Design. Two hours.

Physical, psychological, and aesthetic aspects of color; study and application of the fundamental principles of design through lectures, exhibits, and creative work.

Art 292. Costume Design I. Two hours.

The fundamental elements of art, principles of design, and psychology in relation to dress; line, light and dark, form, color

and texture as applied to the costume; personality, creative effects, and adaptive designing; history of costume as applied to modern dress; costume sketching in light and dark color.

Art 303. Studio Problems. Two hours.

Prerequisites: Art 101 and 202.

Planning and making such design problems as collages, mobiles, stabiles, wire sculpture, glass painting, and other special compositional problems in various mediums.

Art 304. Figure Drawing and Composition. Two hours.

Prerequisite: Art 101.

Study of the figure as a whole—proportion, essentials of artistic anatomy, the figure in action, rhythm; drawing from life model, and from memory; work in a variety of media.

Art 311. Oil Painting I. Two hours.

Prerequisites: Art 101, 121, and 202.

Experiments and investigation in painting; painting from model, still life, and landscape with emphasis on design. Studio and field work.

Art 314. Water Color Painting I. Two hours.

Prerequisites: Art 101 and 202.

Methods and materials; arrangement of the palette; composing and painting; still life, portrait, figure, and abstract water color painting.

Art 341. Crafts I. Two hours.

Original designing and construction problems in leather, metal, jewelry, clay, pottery, and textiles; techniques such as tie-dye, batik, block and screen printing, marionette, puppet and mask making; sag and laminated glass and enamel works; craftwork that may be adapted to native materials of the local community; creative manipulation of cast-off materials; campcraft. A selection of five different crafts is required.

Art 381. Commercial Art I. Two hours.

Prerequisites: Students planning to take this course will find Art 291 and 304 very helpful.

Color and design in commercial art; elementary psychological principles of advertising design; commercial art processes and mediums; reproductive processes; laboratory problems in lettering, advertising layout, dry brush drawing, lithograph, crayon and pencil drawing, cartooning, poster and sign painting.

Art 394. Stage Design and Marionette Production. Two hours.

Prerequisites: Art 121 and 291.

Art principles and their application to stage design; terminology; types of stage settings; making costumes; construction and decoration of stage scenery and properties; lighting; make-up; types

of marionettes and puppets suitable for school use; adapting plays; modeling; constructing and manipulating the characters; making stages and producing plays with marionettes.

Art 412G. Oil Painting II. Two hours.

Prerequisites: Art 101, 202, 304, and 311.

This course is a continuation of Art 311.

Art 413G. Portrait Painting. Two hours.

Prerequisites: Art 101 or 202, 161 or 264, and 311.

At least three portraits will be painted during the semester; training in selection and use of paints and other materials; arrangement of the palette; composition of the portrait; methods of framing the finished product.

Art 415G. Water Color Painting II. Two hours.

Prerequisites: Art 101, 202 or 291, and 314.

This course is a continuation of Art 314.

Art 442G. Crafts II. Two hours.

This course is a continuation of Art 341.

Art 455G. Advanced Art Problems. One to three hours.

Prerequisite: Permission of the instructor.

Advanced students are given an opportunity for additional training in some special art field not provided by regular courses. Opportunity is also provided for research in art education, art history, painting, or techniques. One problem in etching is required.

Art 465G. Modern and Contemporary Art. Three hours.

A survey of the 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.

Research papers, bibliographies, and round table discussions.

Art 482G. Commercial Art II. Two hours.

Prerequisites: Art 101 and 381.

This course is a continuation of Art 381.

Art 493G. Costume Design II. Two hours.

Prerequisites: Art 101 or 304, and 292.

Color and personal dress problems; color theory; textures and patterned materials as they affect the individual; corrective and structural designing for the figure; a closer study of personality traits and how they may be enhanced by dress; sketching in color; historic dress.

Art 500. Public School Art Workshop. Three hours.

Prerequisite: 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 varied types and levels.

COMMERCE AND BUSINESS ADMINISTRATION

Mr. Anderson

Mr. Conyers

Miss Cox

Mrs. Byrd

Mr. Apel

OBJECTIVES:

1. To prepare teachers of business subjects for the secondary schools of Kentucky.
2. To provide a vocational program as terminal education for students planning to enter business.
3. To supplement and broaden the general education programs of students by providing areas of training that cover basic principles of business useful in everyday living.

PREPARATION FOR TEACHING

If the student wishes to concentrate his college work in a single area, he may complete the following curriculum in commerce in order to satisfy the college requirements for graduation. No other major or minor will be required, provided this program is followed, and the student will receive the Provisional High School Certificate valid in commerce upon graduation.

AREA FOR BUSINESS TEACHERS

- 8 hours in Accounting 381, 382
- 11 hours in Secretarial Practice selected from: 213, 232, 235, 331
- 4 hours in Secretarial Practice selected from: 211, 212, 332, 333
- 18 hours in General Business selected from: 101, 160, 221, 236, 360, 364, 450, 451, 461, 462, 465
- 4 hours in Materials and Methods selected from: 375, 475
- 1 hour in Seminar 471
- 4 hours elective in Commerce
- 50 hours minimum

In selecting courses to fulfill the general and professional requirements for graduation the major in commerce must include in his program Economics 201 and Basic Speech 280.

MAJOR OR MINOR IN COMMERCE

Students wishing to use commerce as a second major or as a minor may satisfy the requirements by completing any one of the three programs listed below. It should be noted that completion of one of these specialized majors of 26 hours, or minors of 18 hours, does not earn for the student the Provisional High School Certificate

valid in commerce. It provides for certification only in the business subjects in which adequate training has been received. A student taking a major in Secretarial Science would be certified to teach typewriting, shorthand, and secretarial or office practice, but would not be certified for bookkeeping, general business, salesmanship, business law or other business subjects. 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 some other field and who are using commerce merely to supplement or broaden their background in this field or for possible vocational use.

REQUIREMENTS:

1. For a Major in Secretarial Science with teacher's certificate
15 hrs. in Secretarial Subjects selected from: 211, 212, 213,
231, 232, 331, 332, 333
2 hrs. in Materials and Methods: 375
3 hrs. in General Business: 221
6 hrs. elective selected from: 235, 238, 332, 333

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26 hrs. Minimum

For a Minor in Secretarial Science with teacher's certificate
12 hrs. in Secretarial Subjects: 211 or 212, 213, 231, 232
2 hrs. in Materials and Methods: 375
4 hrs. elective from: 221 or 235 and 236

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18 hrs. Minimum

2. For a Major in General Business with teacher's certificate
14 hrs. in General Business: 101, 221, 364, 450, 461
8 hrs. in Accounting: 381, 382
2 hrs. in Secretarial Subjects: 211 or 212
2 hrs. in Materials and Methods: 475

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26 hrs. Minimum

For a Minor in General Business with teacher's certificate
16 hrs. in General Business: 101, 160, 221, 236, 364, 450, 461
2 hrs. in Secretarial Subjects: 211 or 212

—
18 hrs. Minimum

3. For a Major in Accounting with teacher's certificate
16 hrs. in Accounting chosen from: 381, 382, 480, 481, 482
6 hrs. in General Business chosen from: 101, 236, 364, 461,
465
2 hrs. in Secretarial Subjects: 211 or 212
2 hrs. in Materials and Methods: 475

—
26 hrs. Minimum

For a Minor in Accounting with teacher's certificate
 12 hrs. in Accounting chosen from: 381, 382, 383, 480, 481
 4 hrs. in General Business selected from: 101, 236, 364,
 450, 471
 2 hrs. in Materials and Methods: 475
 —
 18 hrs. Minimum

PREPARATION FOR BUSINESS

Students preparing for business may elect a major in commerce with a second major in economics and sociology, or some other field, and secure a Bachelor of Arts Degree or they may secure a Bachelor of Science Degree with an area of concentration in business administration by completing the major requirements of 50 hours of work in economics, geography and commerce together with the general requirements for this degree.

Requirements for a Major in Commerce and the Bachelor of Arts Degree:

Commerce 160, 381, 382 and 461	14 hrs.
Electives in commerce	10 hrs.
Minimum	24 hrs.

Requirements for a Minor in Commerce and the Bachelor of Arts Degree:

Commerce 381, 382 and 461	11 hrs.
Electives in commerce	7 hrs.
Minimum	18 hrs.

Requirements for the Bachelor of Science with an Area of Concentration in Business Administration:

The curriculum is planned to provide the foundation of a liberal education and a background of business education in the first few years of the college program. It allows the student to find his major interest in the field of business so that 25 hours of electives are available for special training in this field of interest. It is planned to prepare the student for more than a mere clerical job upon the completion of his college training. After a short period of apprenticeship or training on the job the graduate should be prepared either for a junior executive position; to act in the capacity of a business specialist; or to assume the responsibilities of business ownership and management.

<i>College and Department Requirements:</i>	<i>Sem. Hrs.</i>
English	15
Composition (6), Literature (6), Basic Speech (3)	
Science	12
Science 101, 102, 103 and 104 suggested	

Mathematics	10
College Algebra (4), Mathematics of Finance (3), and Statistics (3)	
Social Science	12
Principles of Economics, Fundamentals of Geography, and American Foundations	
Health and Physical Education	4
Electives	24 or 25

MAJOR REQUIREMENTS:

	Sem. Hrs.
Ec. 149 Economic History of the U. S.	3
Com. 160 Introduction to Business	3
Com. 211 Beginning Typewriting	2
Com. 221 Business English	3
Geog. 211 Economic Geography	3
Ec. 304 Marketing	3
Com. 360 Business Organization	3
Com. 381-2 Principles of Accounting	8
Ec. 442 Money and Banking	3
Ec. 443 Investments	3
Com. 450 Salesmanship	3
Com. 461-2 Business Law	6
Com. 465 Principles of Management	3
Com. 481 Intermediate Accounting	4
	<hr/>
	50
Total	128

A number of students are enrolled in the department who have as their purpose the study of certain subjects until such skill and knowledge are gained as will qualify them for an office position. For these students we have provided a one-year and a two-year curriculum in which special emphasis is given to typewriting, shorthand, business English, business arithmetic, accounting, office machines and secretarial procedure and practice. This work is all on the college level and credit toward a degree is given on the completion of all courses.

One-Year Secretarial Course

First Semester		Second Semester	
Eng. 101—Writing and Speaking	3	Eng. 102—Writing and Speaking	3
P. E. 100a—Orientation in Phys. Ed.	1½	P. E. 100b—Orientation in Phys. Ed.	1½
Com. 101—Business Arithmetic	3	Com. 212—Intermediate Typewriting	2
Com. 211—Beginning Typewriting	2	Com. 213—Advanced Typewriting	2
Com. 212—Intermediate Typewriting		*Com. 232—Intermediate Shorthand	4
*Com. 231—Beginning Shorthand	4	Com. 331—Dictation and Transcription	3
Com. 232—Intermediate Shorthand	2	Com. 221—Business English	3
Com. 238—Filing	2	Com. 236—Clerical Office Machines	2
*Com. 235—Secretarial Office Machines	2	P. E. 104—Personal Hygiene	2
	<hr/>		<hr/>
	17½		15½ or 16½

Two-Year Secretarial or General Business Course

FIRST YEAR			
First Semester		Second Semester	
Eng. 101—Writing and Speaking	3	Eng. 102—Writing and Speaking	3
P. E. 100a—Orientation in Phys. Ed.	1½	P. E. 100b—Orientation in Phys. Ed.	1½
Freshman Orientation	1	Com. 212—Intermediate Typewriting	2
Com. 101—Business Arithmetic	3	Com. 213—Advanced Typewriting	2
Com. 211—Beginning Typewriting	2	*Com. 232—Intermediate Shorthand	3 or 4
Com. 212—Intermediate Typewriting	2	Com. 331—Dictation and Transcription	3
*Com. 231—Beginning Shorthand	4	Com. 221—Business English	3
Com. 232—Intermediate Shorthand	2	Com. 236—Clerical Office Machines	2
Com. 238—Filing	2	P. E. 104—Personal Hygiene	2
*Com. 235—Secretarial Office Machines	2		
	17½		15½ or 16½
SECOND YEAR			
First Semester		Second Semester	
Com. 331—Dictation and Transcription	3	Com. 332—Sec. Procedure and Practice	3
Econ. 201—Principles of Economics	3	Econ. 202—Economic Problems	3
Com. 381—Principles of Accounting	4	Com. 382—Principles of Accounting	4
Com. 213—Advanced Typewriting	2	*Com. 333—Applied Shorthand	2
P.S. 241—Government of the U.S.	3	Com. 383—Income Tax Procedure	3½
P.E.—Activity Course	1½	P.E.—Activity Course	2
	15½		17½

* Students interested in preparing for general clerical, accounting, or sales work may substitute courses with permission of the Head of the Department.

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 of Concentration in Commerce

FRESHMAN YEAR			
First Semester		Second Semester	
Eng. 101—Writing and Speaking	3	Eng. 102—Writing and Speaking	3
PE 100a—Orientation in Phys. Ed.	1½	PE 100b—Orientation in Phys. Ed.	1½
Freshman Orientation	1	Ed. 100—Orientation in Education	1
Geog. 100—Fundamentals of Geography	3	Geog. 211—Economic Geography	3
Sci. 101—Intro. to Biological Sci.	3	Sci. 102—Intro. to Biological Sci.	3
Com. 101—Business Arithmetic	3	Com. 160—Introduction to Business	3
Com. 211—Beginning Typewriting	2	P. E. 104—Personal Hygiene	2
Com. 212—Intermediate Typewriting	2		
	15½		15½
SOPHOMORE YEAR			
First Semester		Second Semester	
Eng. 201—Intro. to Literature	3	Eng. 202—Introduction to Literature	3
PE—Activity course	1½	PE—Activity course	1½
Sci. 103—Intro. to Physical Sci.	3	Sci. 104—Intro. to Physical Sci.	3
Ed. 210—Human Grow. and Develop. I	3	Ec. 201—Principles of Economics	3
Com. 212—Intermediate Typewriting	2	Com. 221—Business English	3
Com. 213—Advanced Typewriting	2	Com. 232—Intermediate Shorthand	3 or 4
Com. 231—Beginning Shorthand	4	Com. 331—Dictation and Transcription	3
Com. 232—Intermediate Shorthand	4		
	15½		15½ or 16½

JUNIOR YEAR

First Semester		Second Semester	
Ec. 202—Economic Problems	3	Ed. 300—Intro. to Student Teaching	0
Com. 381—Principles of Accounting	4	Com. 382—Principles of Accounting	4
Com. 331—Dictation and Transcription	3	Com. 461—Business Law	3
or		Com. 475—Mat. & Meth. in Book-keeping and General Business	2
Com. 332—Secret. Proced. and Pract.	2	Sp. 280—Basic Speech	3
Com. 364—Personal Finance	2	*Elective	5
Com. 375—Mat. & Meth. in Sec. Subj.	2		
*Elective	3		
	17		17

SENIOR YEAR

First Semester		Second Semester	
Hist. 400—American Foundations	3	Ed. 477—Professional Semester	15
Com. 450—Salesmanship	3		
Com. 462—Business Law	3		
Com. 471—Seminar	1		
*Elective	7		
	17		

* Must consider core curriculum requirements.

Provisional High School Certificate with a Major in Commerce

(This program will not qualify the student for general teaching in commerce.)

FRESHMAN YEAR

First Semester		Second Semester	
Eng. 101—Writing and Speaking	3	Eng. 102—Writing and Speaking	3
PE 100a—Orientation in Phys. Ed.	1/2	P. E. 100b—Orientation in Phys. Ed.	1/2
Freshman Orientation	1	Ed. 100—Orientation in Education	1
Sci. 101—Intro. to Biological Sci.	3	Sci. 102—Intro. to Biological Sci.	3
Geog. 100—Fundamentals of Geography	3	Geog. 211—Economic Geography	3
PE 104—Personal Hygiene	2	Commerce major	3
Commerce major	3	Second major	3
	15 1/2		16 1/2

SOPHOMORE YEAR

First Semester		Second Semester	
Eng. 201—Intro. to Literature	3	Eng. 202—Intro. to Literature	3
PE —Activity course	1/2	PE —Activity course	1/2
Sci. 103—Intro. to Physical Sci.	3	Sci. 104—Intro. to Physical Sci.	3
Ed. 210—Human Grow. and Develop. I	3	Econ. 202—Economic Problems	3
Econ. 201—Principles of Economics	3	Commerce major	3
Commerce major	3	Second major	3
	15 1/2	PE 285—Community Recreation	2
			17 1/2

JUNIOR YEAR

First Semester		Second Semester	
Core curriculum	3	Ed. 300—Intro. to Student Teaching	0
Commerce major	3	Core curriculum	3
Second major	6	Commerce major	6
Elective	3	Second major	6
		Elective	2
	15		17

SENIOR YEAR

First Semester		Second Semester	
Hist. 400—American Foundations	3	Ed. 477—Professional Semester	15
Commerce major	5		
Second major	6		
Elective	2		
	16		

Bachelor of Science Degree with an Area of Concentration in Business Administration

(This program does not qualify for teaching)

FRESHMAN YEAR

First Semester		Second Semester	
Eng. 101—Writing and Speaking	3	Eng. 102—Writing and Speaking	3
PE 100a—Orientation in Phys. Ed.	1½	PE 100b—Orientation in Phys. Ed.	1½
Freshman Orientation		Com. 160—Introduction to Business	3
Sci. 101—Intro. to Biological Sci.	3	Sci. 102—Intro. to Biological Sci.	3
Hist. 131—History of Civilization	3	Hist. 132—History of Civilization	3
Geog. 100—Fundamentals of Geography	3	Econ. 149—Economic History of the U. S.	3
Math. 151—College Algebra	2	Math. 152—College Algebra	2
<hr/>		<hr/>	
15½		17½	

SOPHOMORE YEAR

First Semester		Second Semester	
Eng. 201—Intro. to Literature	3	Eng. 202—Intro. to Literature	3
PE—Activity course	1½	PE—Activity course	1½
Sci. 103—Intro. to Physical Sci.	3	Sci. 104—Intro. to Physical Sci.	3
Econ. 201—Principles of Economics	3	Econ. 202—Economic Problems	3
Geog. 211—Economic Geography	3	Math. 252—Mathematics of Finance	3
Foreign language		Foreign language	
or		or	
P.S. 241—Government of the U.S.	3	P.S. 242—State and Local Government	3
PE 104—Personal Hygiene	2	Com. 211—Beginning Typewriting	2
<hr/>		or	
<hr/>		Com. 212—Intermediate Typewriting	
17½		<hr/>	
17½		17½	

JUNIOR YEAR

First Semester		Second Semester	
Com. 381—Principles of Accounting	4	Com. 382—Principles of Accounting	4
Sp. 280—Basic Speech	3	Com. 221—Business English	3
Econ. 304—Marketing	3	Com. 360—Business Organization	3
Math. 353—Statistics	3	Foreign language	
Foreign language		or	
or		Elective	
Elective		Elective	
<hr/>		<hr/>	
16		15	

SENIOR YEAR

First Semester		Second Semester	
Hist. 400—American Foundations	3	Com. 450—Salesmanship	3
Com. 461—Business Law	3	Com. 462—Business Law	3
Com. 481—Intermediate Accounting	4	Com. 465—Principles of Management	3
Econ. 442—Money and Banking	3	Econ. 443—Investments	3
Elective		Elective	
<hr/>		<hr/>	
14		15	

DESCRIPTION OF COURSES

Commerce 101. Business Arithmetic. Three hours.

Fundamental processes; common fractions; decimal fractions; pay rolls; aliquot parts; percentage; interest; trade and cash discounts; profit and loss; market price; commission and brokerage; partial payments; installment buying; graphs; depreciation; insurance; stocks and bonds; taxes.

Commerce 160. Introduction to Business. Three hours.

Your business career; economic aspects of business; forms of business organization; business management; managerial controls (accounting, statistics, secretaryship); personnel management;

labor-management relations; banking and finance; business risks and insurance; government regulations; production; marketing; distribution; transportation; retailing; advertising; selling.

Commerce 210. Personal Typewriting. Two hours.

This course is for non-business majors and minors who have not had previous training in typewriting. Business majors and minors should take Commerce 211 and 212.

The keyboard; operating parts of the machine; personal letters; simple business letters; themes; reports; composition at the typewriter; stencils; application letters; centering; and addressing envelopes.

Two demonstration-discussion periods and one laboratory period each week.

Commerce 211. Beginning Typewriting. Two hours.

This course is for business majors and minors. Students who have received one unit of high school credit in typewriting are not permitted to enroll in this course for credit. Such students should enroll for Commerce 212.

The keyboard; operating parts of the machine; vertical and horizontal centering; business letters; addressing envelopes; carbon copies; how to erase; tabulation; interoffice correspondence; business forms; telegrams; and manuscript writing.

Two demonstration-discussion periods and one laboratory period each week.

Commerce 212. Intermediate Typewriting. Two hours.

Tabulated reports; punctuation and placement of letters; business forms; business letter production; business letters with special parts; manuscript writing; special problems in letter arrangement and business forms; typing multiple carbons; stencil duplication; correcting copies; typing outlines; making changes on bound pages.

Two demonstration-discussion periods and one laboratory period each week.

Commerce 213. Advanced Typewriting. Two hours.

Prerequisite: Commerce 212.

Building speed and control; special communication forms; chain feeding envelopes; typing special notations; telegrams and cards; statistical reports; typing quotations, requisitions, orders and shipping forms; tabulations with special problems; stencil and hectograph duplication; legal papers; production typewriting; employment tests for typists; and application letters.

Two demonstration-discussion period each week.

Commerce 221. Business English. Three hours.

Prerequisites: English 101 and Commerce 211 or equivalent.

Importance of good English in general, and of intelligence in

business correspondence; various types of business letters and how to write them; and the elements, characteristics, and types of reports.

Commerce 231. Beginning Shorthand. Four hours.

The Gregg System of shorthand as outlined in functional manuals; alphabet, brief forms, phrases and abbreviations; beginning dictation and pre-transcription training. Five class periods per week. Students who have received one unit of high school credit in shorthand are not permitted to enroll in this course for credit. Such students should enroll in Commerce 232.

Commerce 232. Intermediate Shorthand. Four hours.

Shorthand principles, phrases, abbreviations, and special forms; high frequency word drill; vocabulary building; daily speed practice designed to increase writing speed to better than 90 words per minute; development of transcription skills for the production of mailable transcripts. Five class periods per week.

Commerce 235. Secretarial Office Machines. Two hours.

Prerequisites: Commerce 211 and 212 or the equivalent.

Long-carriage typewriters; manual and electric typewriters; voice writing machines: Dictaphone and Sound-Scriber; duplicating machines: Mimeograph and Ditto; illuminated drawing boards.

Commerce 236. Clerical Office Machines. Two hours.

The 10-key adding listing machines; the full keyboard adding listing machine; the key-driven calculator; and the rotary calculator.

Commerce 238. Filing. Two hours.

Indexing and filing rules; indexing and filing procedure; alphabetic correspondence filing; numeric filing systems; Triple-Check Automatic files; geographic correspondence filing; subject correspondence filing; charge methods and cross references; follow-up files; filing supplies and equipment.

Commerce 331. Dictation and Transcription. Three hours.

Prerequisites: Commerce 211, 212, 231, and 232 or equivalents.

Preview of principles, word forms and phrases; punctuation; use of dictionary and reference manuals; production of accurate and attractive transcripts.

Commerce 332. Secretarial Procedure and Practice. Three hours.

Prerequisite: Commerce 331.

Requirements for employment; duties of the secretary; securing employment; organization of office work; use of office reference books; financial records; preparation of business forms; daily dictation and transcription to increase both shorthand and transcription speed beyond employment standards.

Commerce 333. Applied Shorthand. One to three hours.

Prerequisites: Commerce 331 or the equivalent.

Special secretarial assignments in the various offices on the

campus. After conferences with office heads, the instructor will assign remedial work for class so that upon completion of the course the student is qualified for employment. Two class periods per week or six hours of office work on secretarial projects when on assignment.

Commerce 360. Business Organization. Three hours.

Single proprietorship; partnerships; corporations; the combination movement; pools; trusts; mergers; holding companies; regulation and control of combinations.

Commerce 362. Consumer Education. Three hours.

Prerequisite: Economics 201.

Selection of consumer goods and services; buying habits; advertising and its value to the consumer; agencies for the advice or protection of the consumer; legislation affecting branding, labeling and other economic and industrial problems that affect standards of living.

Commerce 364. Personal Finance. Two hours.

Values; charge accounts; installment buying; borrowing money; budgeting; bank services; savings; insurance; home ownership; investments; taxes; and wills and trusts.

Commerce 375G. Materials and Methods in Secretarial Subjects. Two hours.

Prerequisites: Commerce 211 and 212, or equivalent, 231 and 232.

Different methods of presentation; evaluation of textbooks; determination of standards; supplementary reading and collateral material available to the teacher; testing.

Commerce 381. Principles of Accounting. Four hours.

Prerequisite: Commerce 101.

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; partnership formation and operation; partnership dissolution; and business practices and procedures. Three lecture-discussion periods and two hours of laboratory work per week.

Commerce 382. Principles of Accounting. Four hours.

Prerequisite: Commerce 381.

Corporate accounts and records; corporate earnings; surplus and securities; accounting for manufacturing firms; 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.

Commerce 383G. Income Tax Procedure. Three hours.

Prerequisites: Commerce 381 and 382.

Tax legislation—federal and state; returns for individuals, estates, partnerships and corporations; application of the principles of accounting.

Commerce 450G. Salesmanship. Three hours.

The role of selling in the American economy; the salesman's job and his qualifications; why people buy; price, discount, and credit practices; sales promotion; prospecting; the sales presentation; handling objections; closing the sale; how to improve sales effort; and the selection, training, and promotion of salesmen.

Commerce 451G. Retail Merchandising. Three hours.

Prerequisite: Commerce 450.

Establishing a store; store organizations; buying, pricing, and selling; planning and control; credit management; insurance; tax reports; and operating analysis.

Commerce 461G. Business Law. Three hours.

This course is designed to acquaint the student with the basic principles of law as they apply to business. Areas include: legal rights and remedies, court procedure, contracts, agency, employment, negotiable instruments, personal property, bailments, and transportation.

Commerce 462G. Business Law. Three hours.

A continuation of Commerce 461G. Areas include: sale of goods, insurance, suretyship and guaranty, partnerships, corporations, real property, mortgages and leases, trusts and estates, bankruptcy, and business torts and crimes.

Commerce 465G. Principles of Management. Three hours.

Prerequisites: Economics 201 and Commerce 382.

Basic concepts in management to include organizing, planning, controlling, and coordinating; scientific management; managerial, budgetary, quality, production, and inventory control; wage plans and job evaluation; industrial relations; plant location and plant layout; time and motion study, and material handling.

Commerce 471. Seminar. One hour.

This course is designed to give students an opportunity to become familiar with the literature in the field of business education and to study special problems in connection with the commerce curriculum and the objectives of business education courses in the Junior and Senior High School.

Commerce 475G. Materials and Methods in Bookkeeping and General Business. Two hours.

Prerequisites: Commerce 381 and 382.

Different methods of presentation; evaluation of texts; testing; determination of standards; supplementary reading and collateral material available to the teacher.

Commerce 480G. Cost Accounting. Four hours.

Prerequisite: Commerce 382.

The field of cost accounting; the voucher system and the factory ledger; accounting for materials, labor, and manufacturing expenses; job order cost accounting; process cost accounting; estimated cost procedures; the cost of joint products and by products; standard cost system; control and classification of costs.

Commerce 481G. Intermediate Accounting. Four hours.

Prerequisite: Commerce 382.

The accounting process; financial statements; detailed study of balance sheet accounts to include the following: cash, receivables, investments, fixed assets, inventories, intangible assets, current liabilities, capital stock and surplus; statement of application of funds; horizontal and vertical analysis of financial statements; and ratios and measurements.

Commerce 482G. Advanced Accounting. Three hours.

Prerequisite: Commerce 481.

Topics: Partnership formation and operation; dissolution and liquidation; joint ventures; consignments; agency and branch accounts; consolidated balance sheets; special problems in statement construction and stock ownership; consolidated statement of profit and loss; statement of affairs; receivership accounts and statements; accounting for estates and trusts; actuarial science.

Commerce 483G. Auditing. Three hours.

Prerequisite: Commerce 482.

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.

Commerce 500. Foundations of Business Education. Three hours.

Prerequisite: Graduate standing.

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

Commerce 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 followup; layout and facilities; supervision; visual aids; utilization of community resources; and curriculum trends.

Commerce 502. Cases in Management. Three hours.

Prerequisites: Commerce 382 and 465.

Case studies which involve the solving of problems in—human relations, organization, production and expansion, control, policy formation, and decision making.

ECONOMICS AND SOCIOLOGY

Mr. Carey

Mr. Playforth

Mr. Fincel

OBJECTIVES:**A. In Economics**

1. To equip the potential high school teacher with material so that he may give suitable instruction in economics at that level of education.
2. To give the student a perspective of economic facts, processes, and issues necessary to his understanding of everyday life.
3. To provide a basic foundation for those desiring to do graduate work in economics.
4. To help prepare students for careers in law, government service, business and other professions.

B. In Sociology

1. To prepare students to teach this subject in high school, particularly as it is involved in the total program of the social studies.
2. To help the student to understand human society with all its backgrounds and inter-relationships 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.
3. To help prepare the student for a career in the scientific study of society, social work, law, teaching in institutions of higher learning, or other professions.

REQUIREMENTS:***For a Major in Economics and Sociology:***

	Sem. Hrs.
Economics 201 and 202	6
Sociology 201, 203 and 305	8
Economics 471 or Sociology 471	1
Advanced credit in economics or sociology approved by the department	12
Minimum for a Major	27
(A minimum of 8 hours in each subject must be included in this major)	

For a Minor in Economics and Sociology:

Economics 201 and 202	6
Sociology 201 and 305	6
Advanced credit in economics or sociology approved by the department	6
Minimum for a Minor	18

For a Major in Sociology: (Sociology can be used as a major only for the degree without a certificate. It will not be accepted as one of the required majors for the A.B. or B.S. degree with a certificate.)

Sociology 201, 203, 205, 305, 410 and 471.....	14
Advanced credit in sociology approved by the department	11
Minimum for a Major	25

For a Minor in Sociology:

Sociology 201, 203, 205 and 305.....	10
Advanced credit in sociology approved by the department	8
Minimum for a Minor	18

For a Minor in Economics:

Economics 201 and 202	6
Additional credit in economics approved by the department	12
Minimum for a Minor	18

For an Area Major in Social Science:

History 241, 242, 331, 332	12
Additional advanced credit in history	6
Political Science 241	3
Additional credit in political science	3
Sociology 201	3
Additional credit in sociology	3
Economics 201, 202	6
Geography 100	3
Additional credit in geography	3
Six hours elective from any of the social sciences.....	6
Seminar	1
Total for an Area Major	49

SUGGESTED PROGRAM

The following program has been devised to help students in selecting their courses and making their schedules. This suggested schedule need not be followed specifically from semester to semester, but close adherence to it will aid the student in meeting all requirements for graduation.

**Provisional High School Certificate with a Major in
Economics and Sociology**

FRESHMAN YEAR

First Semester			Second Semester		
Eng.	101—Writing and Speaking	3	Eng.	102—Writing and Speaking	3
PE	100a—Orientation in Phys. Ed.	½	PE	100b—Orientation in Phys. Ed.	½
	Freshman Orientation	1	Ed.	100—Orientation in Education	1
Sci.	101—Intro. to Biological Sci.	3	Sci.	102—Intro. to Biological Sci.	3
Soc.	201—Introductory Sociology	3	Soc.	203—Contemp. Social Problems	2
	Second Major	3		Core curriculum	3
PE	104—Personal Hygiene	2		Second Major	3
<hr/>			<hr/>		
15½			15½		

SOPHOMORE YEAR

First Semester			Second Semester		
Eng. 201	Intro. to Literature	3	Eng. 202	Intro. to Literature	3
PE	Activity course	$\frac{1}{2}$	PE	Activity course	$\frac{1}{2}$
Sci. 103	Intro. to Physical Sci.	3	Sci. 104	Intro. to Physical Sci.	3
Econ. 201	Principles of Economics	3	Econ. 202	Economic Problems	3
Ed. 210	Human Grow. and Develop. I	3		Core curriculum	3
	Second major	3	PE 285	Community Recreation	2
		<hr/>			<hr/>
		15½			17½

JUNIOR YEAR

First Semester			Second Semester		
Soc. 305	Cultural Anthropology	3	Ed. 300	Intro. to Student Teaching	0
Econ. 441	Public Finance	3	Soc. 384	World Religions	
	Second major	6	or		
	Core curriculum	3	Soc. 403	The Family	3
	Elective	2	or		
		<hr/>	Econ. 302	Labor Problems	
		17	or		
			Econ. 304	Marketing	
				Second major	3
				Core curriculum	6
				Elective	5
		<hr/>			<hr/>
		17			17

SENIOR YEAR

First Semester			Second Semester		
Hist. 400	American Foundations	3	Ed. 477	Professional Semester	15
Soc. 405	General Anthropology				
or					
Soc. 410	Western Cultural Heritage	3			
or					
Econ. 442	Money and Banking				
or					
Econ. 443	Investments	1			
S. Sci. 471	Seminar	3			
	Second major	5			
	Elective				
		<hr/>			
		15			

Provisional High School Certificate with an Area of Concentration in Social Science

FRESHMAN YEAR

First Semester			Second Semester		
Eng. 101	Writing and Speaking	3	Eng. 102	Writing and Speaking	3
PE 100a	Orientation in Phys.	$\frac{1}{2}$	PE 100b	Orientation in Phys.	$\frac{1}{2}$
Ed.	Freshman Orientation	1	Ed. 100	Orientation in Education	1
Sci. 101	Intro. to Biological Sci.	3	Sci. 102	Intro. to Biological Science	3
Geog. 100	Fundamentals of Geography	3	Soc. 201	Introductory Sociology	3
PE 104	Personal Hygiene	2		Elective	3
	Elective	3		Core Curriculum	3
		<hr/>			<hr/>
		15½			16½

SOPHOMORE YEAR

First Semester			Second Semester		
Eng. 201	Intro. to Literature	3	Eng. 201	Intro. to Literature	3
PE	Activity course	$\frac{1}{2}$	PE	Activity course	$\frac{1}{2}$
Sci. 103	Intro. to Physical Sci.	3	Sci. 104	Intro. to Physical Sci.	3
Hist. 241	The U. S. 1492-1865	3	Hist. 242	The U. S. 1865 to the Present	3
Ec. 201	Principles of Economics	3	Ec. 202	Economic Problems	3
Ed. 210	Human Grow. and Develop. I	3		Core Curriculum	3
			PE 285	Community Recreation	2
		<hr/>			<hr/>
		15½			17½

JUNIOR YEAR			
First Semester		Second Semester	
Hist. 331—Modern Europe 1500-1815	3	Ed. 300—Intro. to Student Teaching	0
P. S. 241—Government of the U. S.	3	Hist. 332—Modern Europe 1815 to the Present	3
Geog. —Elective	3	Hist. —Advanced elective	3
Soc. —Elective	3	P. S. —Elective	3
Core Curriculum	3	Core Curriculum	3
		Elective	5
	15		17
SENIOR YEAR			
First Semester		Second Semester	
Hist. —Advanced Elective	3	Ed. 477—Professional Semester	15
S. Sci. —Elective	6		
S. Sci. 471—Seminar	1		
Elective	3		
Core Curriculum	3		
	16		

DESCRIPTION OF COURSES

ECONOMICS

Economics 149. Economic History of the United States. Three hours.

Early colonial commerce; development of transportation facilities—shipbuilding, turnpikes, canals, river transportation, railroads; credit and international commerce; the effect of warfare upon economics; modern economic theories.

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 government; international trade, investment, and payments; problems of labor; problems of American agriculture; transportation; contrasting economic systems.

Economics 211. Economic Geography. Three hours.

(See Geography 211)

Economics 280. Agricultural Economics. Three hours.

Prerequisite: Economics 201.

Development of agriculture and agricultural economics; farm population and farm life; price economy; geographic factors interest, wages, and profits; proportioning of land, labor, and capital; farm credit; land tenure; and cooperative marketing movements.

Economics 302G. 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 304G. Marketing. Three hours.

Prerequisite: Economics 201.

Raw materials and products; organized exchange; analysis of market; market price; manufactured products; warehouses; co-operative societies; distribution organizations.

Economics 339. Economic History of Europe. Three hours.

Prerequisite: Upper division standing.

Medieval and early modern backgrounds; agriculture, industry, and trade from the 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 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 471. Seminar. One hour.

Prerequisites: Twelve hours in economics and senior standing.

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.

Economics 583. Development of Economic Thought. Three hours.

Formerly Economics 483.

Economic contributions of the ancient Hebrews, Greeks and Romans; the early scholastics; mercantilists; physiocrats; Adam Smith; Ricardo; the socialists; and recent economic thought.

SOCIOLOGY

Sociology 170. Rural Sociology. Three hours.

Rural and urban contrasts in ways of life; patterns of rural settlement; types of rural communities; studies in rural population and migration; patterns of social interaction; rural social institu-

tions — economic, school, church, family, government; social pathology and welfare; rural health, medical services and facilities. Special emphasis is laid on rural life in Kentucky and surrounding areas.

Sociology 201. Introductory 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 203. Contemporary Social Problems. Two hours.

Problems concerning environment; wealth, poverty; population; mental efficiency; race; the family; child welfare; public opinion; crime and delinquency; and others.

Sociology 205. Social Institutions. Two 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 302G. Population Problems. Two 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 their effects on the population; and population policies.

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. Recommended as basic to all social sciences.

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.

Sociology 384G. World Religions. Three hours.

Study of the great religions of the world using cultural, historical and comparative approaches. Religions of selected primitive

tribes; religions of Egypt and Mesopotamia; religious systems of India—Hinduism, Buddhism, Jainism, Sikhism and their derivatives; East Asiatic religions—Confucianism, Taoism, Shinto; religions of Western Asia — Zoroastrianism, Judaism, Christianity, Mohammedanism and their derivatives. Religions as forces for social control.

Sociology 401G. Criminology. Three hours.

Nature and significance of crime; history of criminological thought; the explanation of crime; personality traits and crime; Negro and crime; juvenile delinquency; criminal law; criminal courts; prison history; new movements in prison reform; treatment of the juvenile delinquent; crime prevention.

Sociology 402G. Immigration. Three hours.

Immigration processes; history of immigration; legislation; minority groups; racial and cultural conflicts; acculturation, assimilation and integration of the immigrant.

Sociology 403G. The Family. Three hours.

Historical survey of the family; mate selection; courtship; adjustment problems in marriage; problems of parenthood; family administration; sex education.

Sociology 405G. General Anthropology. Three hours.

Ancient man and prehistoric culture; race and culture; culture and society; subsistence and crafts; marriage and kin; status and social role; property and politics; social control; religion and magic; the dynamics of culture. Recommended as basic to all social sciences.

Sociology 410G. Western Cultural Heritage. Three hours.

(Formerly Studies in Basic Cultures)

The great formative cultures of antiquity which provided the foundations of modern western civilizations; culture centers of the Old World and their contributions through time and space to modern civilization in art, crafts, sciences, social organization, education, religion, and other works of contemporary mankind; cultures of early Egypt, Mesopotamia, Palestine, India and China. Contributions of the American Indian. The archaeological method and discovery are stressed.

Sociology 425G. The Community. Three hours.

Community organization, nature, classification, structure, functions, and institutions. A study of human behavior and interrelationships, variation and change, conflict and disorganization, integration, techniques and principles in rural life and development. Stress is placed on rural communities.

Sociology 471. Seminar. One hour.

The purpose of this course is to promote group discussion of problems, methods of investigation, and theory of the social sciences. Current social science periodicals and reports are used as bases for study and discussion.

Sociology 500. Independent Research. One to four hours.

Qualified students may arrange with the staff for individual work on some particular sociological problem. Credit hours will depend on the quality and quantity of achievement by the student.

Sociology 550. Social Thought and Theory. Three hours.

Formerly Sociology 450, Social Philosophy.

The philosophies of outstanding thinkers through history from the classical Greeks to the present. Influence of family background, personal experience, and trends of contemporary culture and thought through the ages on the systems of Plato, Aristotle, St. Augustine, Machiavelli, Hobbs, Locke, Rousseau, Spencer, Durkheim, Pareto and others. Trial applications of the systems to evaluate their adequacies to explain modern social, cultural and world issues.

EDUCATION

Mrs. Anderson	Mrs. Hall	Miss Smelley
Mrs. Caudill	Mr. Hart	Mr. Stewart
Mr. Caudill	Mr. Howard	Mr. Tant
Mrs. Day	Mr. Lappin	Mr. Walter
Mr. Denney	Mr. McShea	Mrs. Waltz
Miss Evans	Miss Minish	Mrs. Whitaker
Mrs. Graves	Miss Nollau	Mr. Wilson
Mr. Hall	Mrs. Northcutt	Mr. George Young
	Mrs. Rice	

OBJECTIVES:

1. To discover and encourage the best possible candidates for preparation as teachers.
2. To help students develop a clear understanding of how boys and girls grow and develop.
3. To aid prospective teachers in learning how to use subject matter, within the total environment of boys and girls, so that the most desirable, wholesome and well-rounded individuals possible will result.

REQUIREMENTS: (Specific professional requirements for elementary and secondary certificates.)

For the Provisional Elementary Certificate:	Sem. Hrs.
Education 100, 210, 321, 326, 333, and 427	29
For the Provisional Secondary Certificate:	
Education 100, 210, 300, and 477	19

SUGGESTED PROGRAM FOR ELEMENTARY TEACHERS

The following program has been devised to help students in selecting their courses and making their schedules. This suggested schedule need not be followed specifically from semester to semester, but close adherence to it will aid the student in meeting all requirements for graduation.

Provisional Elementary Certificate and Degree**FRESHMAN YEAR**

First Semester		Second Semester	
Eng. 101—Writing and Speaking	3	Eng. 102—Writing and Speaking	3
PE 100a—Orientation in Phys.	1½	PE 100b—Orientation in Phys.	1½
Ed. Freshman Orientation	1	Ed. 100—Orientation in Education	1
Sci. 101—Intro. to Biological Science	3	Sci. 102—Intro. to Biological Sci.	3
Hist. 131—History of Civilization	3	Hist. 132—History of Civilization	3
Art 121—Public School Art	3	Mus. 100—Rudiments of Music	3
or		or	
Mus. 100—Rudiments of Music	2	Art 121—Public School Art	3
PE 104—Personal Hygiene	2	Geog. 100—Fundamentals of Geography	3
	15½		16½

SOPHOMORE YEAR

First Semester		Second Semester	
Eng. 201—Intro. to Literature	3	Eng. 202—Intro. to Literature	3
PE —Activity course	1½	PE —Activity course	1½
Sci. 103—Intro. to Physical Sci.	3	Sci. 104—Intro. to Physical Sci.	3
Ed. 210—Human Grow. and Develop. I	3	L. S. 227—Lit. and Mat. for Children	3
Ec. 201—Principles of Economics	3	Soc. 201—Introductory Sociology	3
Sp. 280—Basic Speech	3	Dr. 283—Elementary Dramatics	3
	15½	F. A. 160—Appre. of the Fine Arts	2
			17½

JUNIOR YEAR

First Semester		Second Semester	
Ed. 321—Teaching of Arithmetic	3	Ed. 326—Teaching of Reading	3
P. S. 241—Government of the U.S.	3	Geog. 300—Regional Geog. for El. Teach.	3
Art 221—Adv. Public School Art	2	Mus. 221—Music for the El. Teacher	2
PE 320—Plays & Games for the El. Sch.	2	H. Ec. 302—Nutrition for the El. Teach.	2
Elective	6	Elective	6
	16		16

SENIOR YEAR

First Semester		Second Semester	
Hist. 400—American Foundations	3	Ed. 427—Professional Semester	15
Ed. 333—Fund. of Elem. Education	4		
Sci. 390—Science for the El. Teach.	3		
Elective	6		
	16		

DESCRIPTION OF COURSES**Education 100. Orientation in Education. One hour.**

(Required of all freshmen who expect to qualify for any teaching certificate.)

Essential understandings concerning the organization of the American school system; support for public education; opportunities and requirements in teaching as a professional activity; and opportunities and requirements in special teaching fields. Offered during the second semester each year.

Education 153. General Psychology. Three hours.

The content of this course emphasizes the following topics: psychology as a science; the various systems of psychology; heredity; behavior organisms; emotional behavior; the neural system; in-

supervision of instruction; selection of supplementary materials and problems of curriculum organization; effective staff relationships; and pertinent problems concerning instruction and management.

Education 375. Supervised Student Teaching. Four hours.

Prerequisites: a. The attainment of a scholastic standing of two or "C" in all courses completed at the time student teaching begins; b. a minimum standing of 2.5 on all work completed in the field in which teaching is to be done; c. completion of the professional education courses prerequisite to student teaching—Education 100, 210, 211, and 472—; d. completion of a minimum of 16 semester hours in the field in which the student is to teach; e. completion of a minimum of 90 semester hours of work; f. at least one semester of residence credit earned at this college; g. permission of the Committee on Teacher Education.

Each student teacher is assigned to a two-hour block in the Training School during which time observation, participation and teaching is done. The student teaches a minimum of 45 clock hours. The remainder of the time is spent in observing, participating, testing, counseling, organizing material, and participating in other professional activities.

Daily conferences are held with the critic teacher and a group conference is held once each week with the director of the training school. Attendance and participation in school activities and certain faculty meetings are also required.

During a summer term a student is assigned to a three-hour block.

Education 381G. Measurement Principles and Techniques. Three hours.

The administration and interpretation of interest and personality inventories; tests of intelligence, mechanical ability, space relations, reading, hearing, and vision; also aptitude testing in its various forms.

This course involves one hour of conference per week with the instructor and the remainder of the work is done in the Testing Bureau.

Education 382G. Audio-Visual Aids in Instruction. Three hours.

History and basic philosophy of multi-sensory instructional materials; role of the teacher in perceptual learning; non-projected materials for learning; operation, maintenance and evaluation of audio-visual aids; sources of materials.

Education 420. Principles and Practices in Elementary Education. Four hours.

This course is a continuation of Education 333 and is designed to aid prospective teachers in rounding out their understanding of the total elementary school and its program.

Education 423. Curriculum Development. Three hours.

(Offered only by extension.)

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. Four hours.

A continuation of Education 325.

Education 425S. Supervised Student Teaching. Four hours.

Prerequisites: Four hours of credit in student teaching; three years of successful teaching experience within the last ten years; completion of a minimum of 90 semester hours of college credit; attainment of a scholastic standing of two (average of "C") on all work completed at the time of enrollment for the course; at least one semester of residence credit earned at this college; and permission of the Committee on Teacher Education.

Two class periods a day are required and, in addition, each enrollee is expected to leave a period vacant in his schedule for special assignments and activities in the Training School.

The experiences provided are designed to meet the needs of the members of the group. They are selected from the entire range of teaching activity except that classroom teaching is omitted. Possible topics for attention are—observation, 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 resources and aids to learning, evaluation, professional relations, etc.

Education 427. Professional Semester. Fifteen hours.

Prerequisites: a. The attainment of a scholastic standing of two or "C" in all courses completed at the time the student enrolls for the course; b. completion of Education 100, 210, 321, 326, and 333; c. completion of 90 hours of college work; d. at least one semester of residence credit earned at this college; and e. permission of the Committee on Teacher Education.

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, Advanced Fundamentals of Elementary Education, and Supervised Student Teaching.

The class meets for five hours a day for seven weeks during the semester and the student teaching is done during the remaining eleven weeks, either in the campus training school or in cooperating off-campus schools in the area.

The student teaches a minimum of ninety clock hours and the remainder of the time is spent in observing, participating, testing,

counseling, organizing material, and participating in other professional activities. Teaching may be done in any of the elementary grades.

Daily conferences are held with the supervising teacher. Attendance and participation in school activities and certain faculty meetings are also required.

Education 472. Fundamentals of Secondary Education. Four hours.

Prerequisites: Education 100, 210, and 211 or the equivalent.

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. Four hours.

This course is a continuation of Education 375.

Education 475S. Supervised Student Teaching. Four hours.

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: a. The attainment of a scholastic standing of two or "C" in all courses completed at the time the student enrolls for the course; b. a minimum standing of 2.5 on all work completed in the field in which teaching is to be done; c. completion of Education 100, 210, and 300; d. completion of 16 semester hours in the field in which the student is to teach; e. completion of 90 semester hours of college credit; f. at least one semester of residence credit earned at this college; and f. permission of the Committee on Teacher Education.

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, Fundamentals of Secondary Education, and Supervised Student Teaching.

The class meets for five hours a day for seven weeks during the semester and the student teaching is done during the remaining eleven weeks, either in the campus training school or in cooperating off-campus schools in the area.

The student teaches a minimum of ninety clock hours and the remainder of the time is spent in observing, participating, testing, counseling, organizing material, and participating in other professional activities.

Daily conferences are held with the supervising teacher. Attendance and participation in school activities and certain faculty meetings are also required.

GRADUATE COURSES

Morehead State College offers training at the graduate level for five types of positions. These are—

1. School Administration
 - a. Superintendency
 - b. Principalship
2. School Supervision
3. Elementary School Teaching
4. High School Teaching
5. Guidance and Counseling

The following programs have been arranged to make it possible for students to receive the A.M. in Education and at the same time qualify for necessary certification:

The A.M. in Education and the certificate for the superintendency:

*Required: Education 500, 528, 530, 540, 560, 571, 580, 584 21

To be selected with the approval of

the student's committee	9
Minimum for the degree	30

The A.M. in Education and the certificate for the principalship:

*Required: Education 500, 556 or 381, 520 or 570, 530,

560, 571, 580, 59419 or 20

To be selected with the approval of the student's

committee	10 or 11
Minimum for the degree	30

The A.M. in Education and the certificate for supervision:

*Required: Education 500, 381 or 557, 527, 530, 540, 554 or

580, 560, 57118 or 20

To be selected with the approval of the student's

committee	10 or 12
Minimum for the degree	30

The A.M. in Education for elementary teaching:

*Required: Education 500, 520, 530, 571, 580 11

The remainder of the work is selected with the ap-

proval of the student's graduate committee 19**

Minimum for the degree 30

The A.M. in Education for high school teaching:

*Required: Education 500, 530, 570, 571, 580 11

The remainder of the course work is selected with the

approval of the student's graduate committee. A minimum of 15 hours of credit must be earned in the courses numbered 500 or above and the student is urged to take approximately 15 hours in his teaching field or fields	19**
Minimum for the degree	30

The A.M. in Education and the certificate for guidance and counseling.

*Required: Education 500, 530, 550, 552, 556, 557, 558, 559, 571 and Mathematics 353

21

To be selected with the approval of the student's committee

9

Minimum for the degree

30

*If the student has received credit for any of the required courses at the undergraduate level he substitutes another course in his graduate program.

**At least 12 hours of this work must be in fields other than professional education.

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 520. Research Problems in Elementary Education. Two hours.

Prerequisite: Education 500.

The intensive investigation and treatment of one or more significant problems in the field of elementary education. Problems are selected with regard for the needs and interest of the students.

Education 527. Diagnostic and Remedial Techniques. Two hours.

Diagnostic testing; the causes of retardation; specific disabilities in school subjects; behavior problems; cumulative record keeping; case studies; and remedial techniques.

Education 528. School Law. Three hours.

The state's responsibility for education; legal safe-guards 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, text-books and courses of study. Emphasis on the Kentucky Code.

Education 530. The Curriculum. Three hours.

Evaluation of past and present curricular aims and practices in the twelve-grade school; organization and development of the cur-

riculum program in the local school system; research, evaluation, and experimentation in curriculum development; conditions of effective group endeavor.

Education 540. Problems of the Superintendent. Three hours.

Business organization and procedure; budget making and finance; the board of education; school plant construction and maintenance; transportation; personnel administration; organization for supervision and curriculum development.

Education 550. Psychology of Childhood. Two hours.

General principles of child development; influences affecting physical, mental and emotional growth; the child and the community; development of memory; imagination and creative ability; social and personality development; conflict and aggression; co-operation and friendship.

Education 552. Psychology of Adolescence. Two 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.

Education 554. Psychology of Learning. Two hours.

Prerequisite: Six hours of psychology.

The fundamental principles of learning including acquisition, retention, forgetting, problem solving and symbol formation; experimental studies; and the application of principles to practical problems in habit formation, development of skills, remembering and logical thinking.

Education 555. Psychology of Exceptional Children. Two hours.

Prerequisite: Six hours of psychology.

The psychology and treatment of children having superior or inferior mental ability; and the general methods of facilitating the growth and development of children who are hard of hearing, defective in vision, or defective in speech.

Education 556. Guidance and Counseling. 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 557. Mental Measurements. Two hours.

Types of psychometric scales used to measure mental ability and the purpose and scope of each. Special emphasis on the Wechsler-Bellvue and Stanford-Binet scales.

Education 558. Mental Health. Two hours.

The principles of biosocial development of children with an approach to understanding the factors influencing the child's emo-

tional health and focusing attention on the meaning and importance of mental hygiene in the classroom. The mental health point of view; development and behavior of children; communication; group dynamics; the mental hygiene aspects of the prevailing philosophies of education; the role of the school in providing a more beneficial environment for children; diagnosis and evaluation of the development of mental health in the schools.

Education 555. Practicum in Guidance and Counseling. Two hours.

Actual experience in guidance and counseling in the campus school and schools of the area. Both group and individual techniques employed. This course is taken during the last term of residence in the guidance and counseling program.

Education 560. Supervision. Three hours.

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 570. Research Problems in Secondary Education. Two hours.

Prerequisite: Education 500.

The intensive investigation and treatment of one or more significant problems in the field of secondary education. Problems are selected with regard for the needs and interests of the student.

Education 571. Graduate Seminar in Education. One hour.

Individual research projects and theses; reviews of current educational research; and significant problems in education.

This course may be taken more than one semester on recommendation of the student's graduate committee.

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 582. Audio-Visual Aids Seminar. Two hours.

Prerequisite: Education 382 or the equivalent.

The use of audio-visual aids in the improvement of instruction; psychological aspects of the program; current trends in the field; and utilization of audio-visual equipment. Emphasis on individual problems.

Education 584. School Finance. Three 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 591. The School and the Public. Two hours.

Organization for effective public relations; educational publicity; the techniques of group dynamics; essential elements of the school-community partnership; school and community surveys; school services for adults; special programs and projects.

Education 594. The Principalship. Three hours.

The organization of the twelve-grade school; school building maintenance and operation; record keeping and office routine; schedule making; guidance programs; the teaching staff; extra-curricular programs; administration of pupil personnel; and public relations.

LANGUAGES AND LITERATURE

Mr. Roberts	Mr. Lacefield	Mrs. Moore
Mr. Banks	Mr. Lawton	Mr. Prince
Mr. Covington	Mr. Long	Mr. Stewart
Mr. Holloway	Miss Maggard	Mr. Stuhr

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:

<i>For all Degrees:</i>	Sem. Hrs.
English 101, 102, 201, and 202	12
<i>For a Major:</i>	
English 101, 102, 201, and 202	12
English 331 or 333, 332, 342, 433 or 434, 393, and 435	18
Minimum for a Major	30
<i>For a Minor:</i>	
English 101, 102, 201, and 202	12
English 331 or 332 or 333, 342, 433 or 434, and 435	12
Minimum for a Minor	24

For an Area of Concentration: Since teachers of English usually teach in only one field and are frequently expected to sponsor dramatic activities, speech activities and a school newspaper, it is strongly recommended that students carefully consider the possibility of taking this Area.

English 101, 102, 201, and 202	12
English 290, 331 or 333, 332, 342, 363 or 453, 393, 433 or 434, and 435	24
Speech 280 and 284	6
Dramatics 283	3
Journalism 380	3

Minimum for an Area 48

In addition to the above, it is strongly recommended that students taking either the Major or Area develop a proficiency in a foreign language. The minimum amount of credit in a foreign language that can be counted on a degree is six hours.

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, but close adherence to them will aid the student in meeting all requirements for graduation.

Provisional High School Certificate with a Major in English

FRESHMAN YEAR

First Semester		Second Semester	
Eng. 101—Writing and Speaking	3	Eng. 102—Writing and Speaking	3
PE 100a—Orientation in Phys. Ed.	$\frac{1}{2}$	PE 100b—Orientation in Phys. Ed.	$\frac{1}{2}$
Freshman Orientation	1	Ed. 100—Orientation in Education	1
Sci. 101—Intro. to Biological Sci.	3	Sci. 102—Intro. to Biological Sci.	3
Hist. 131—History of Civilization	3	Hist. 132—History of Civilization	3
Foreign Language	3	Foreign Language	3
PE 104—Personal Hygiene	2	Second Major	3
	$15\frac{1}{2}$		$16\frac{1}{2}$

SOPHOMORE YEAR

First Semester		Second Semester	
Eng. 201—Intro. to Literature	3	Eng. 201—Intro. to Literature	3
PE —Activity Course	$\frac{1}{2}$	PE —Activity Course	$\frac{1}{2}$
Sci. 103—Intro. to Physical Sci.	3	Sci. 104—Intro. to Physical Sci.	3
Foreign Language	3	Foreign Language	3
Ed. 210—Human Grow. and Develop. I	3	Sp. 280—Basic Speech	3
Second Major	3	Second Major	3
	$15\frac{1}{2}$	PE 285—Community Recreation	2
			$17\frac{1}{2}$

JUNIOR YEAR

First Semester		Second Semester	
Eng. 331—Classical Writers	3	Ed. 300—Intro. to Student Teaching	0
or		Eng. 332—Romantic Writers	3
Eng. 333—Victorian Writers		Eng. 342—American Writers Since 1850	3
Eng. 433—English Fiction	3	Eng. 363—History of the Theater	3
or		or	
Eng. 434—American Fiction	3	Eng. 453—Modern Drama	3
Second Major	3	Sp. 284—Oral Interpretation	3
Social Science Elective	3	Elective	5
Elective	4		
	16		17

SENIOR YEAR

First Semester		Second Semester	
Hist. 400—American Foundations	3	Ed. 477—Professional Semester	15
Eng. 393—History of the Language	3		
Eng. 435—Shakespeare	3		
Second Major	6		
<hr/>			
15			

Provisional High School Certificate with an Area of Concentration in English

FRESHMAN YEAR

First Semester		Second Semester	
Eng. 101—Writing and Speaking	3	Eng. 102—Writing and Speaking	3
PE 100a—Orientation in Phys. Ed.	1½	PE 100b—Orientation in Phys. Ed.	1½
Freshman Orientation	1	Ed. 100—Orientation in Education	1
Sci. 101—Intro. to Biological Sci.	3	Sci. 102—Intro. to Biological Sci.	3
Hist. 131—History of Civilization	3	Hist. 132—History of Civilization	3
Foreign Language	3	Foreign Language	3
PE 104—Personal Hygiene	2	Elective	3
<hr/>		<hr/>	
15½		16½	

SOPHOMORE YEAR

First Semester		Second Semester	
Eng. 201—Intro. to Literature	3	Eng. 202—Intro. to Literature	3
PE —Activity Course	1½	PE —Activity Course	1½
Sci. 103—Intro. to Physical Sci.	3	Sci. 104—Intro. to Physical Sci.	3
Foreign Language	3	Foreign Language	3
Sp. 280—Basic Speech	3	Dr. 283—Elementary Dramatics	3
Ed. 210—Human Grow. and Develop. I	3	Sp. 284—Oral Interpretation	3
		PE 285—Community Recreation	2
<hr/>		<hr/>	
15½		17½	

JUNIOR YEAR

First Semester		Second Semester	
Eng. 331—Classical Writers	3	Ed. 300—Intro. to Student Teaching	0
or		Eng. 332—Romantic Writers	3
Eng. 333—Victorian Writers	3	Eng. 342—American Writers Since 1850	3
Eng. 290—Creative Writing	3	Eng. 380—Intro. to Journalism	3
Eng. 433—English Fiction	3	Eng. 363—History of the Theatre	3
or		Eng. 453—Modern Drama	5
Eng. 434—American Fiction	3	Elective	3
Social Science Elective	4		
Elective	4		
<hr/>		<hr/>	
16		17	

SENIOR YEAR

First Semester		Second Semester	
Hist. 400—American Foundations	3	Ed. 477—Professional Semester	15
Eng. 393—History of the Language	3		
Eng. 435—Shakespeare	3		
Elective	6		
<hr/>			
15			

DESCRIPTION OF COURSES

English 101. Writing and Speaking. Three hours.

A course for the development of collegiate writing, reading, and speaking; review of grammar and the organization of written papers; dictionary and word study for speed in reading; frequent papers and oral reports.

Students who are deficient in English usage will be assigned to sections that meet five days a week.

English 102. Writing and Speaking. Three hours.

Prerequisite: English 101.

A continuation of English 101 with emphasis on critical writing and thinking; analysis of essays, poetry, and fiction; frequent papers, including the short research paper.

English 201. Introduction to Literature. Three hours.

A course designed to help students understand and enjoy good imaginative literature; the elements of poetry, fiction and drama; wide reading in English and American masterpieces; essay writing and reports.

English 202. Introduction to Literature. Three hours.

A continuation of English 202.

English 290. Creative Writing I. Three hours.

A study of description, narration, exposition and poetry with extensive practice in the writing of these forms; class analysis, themes and conferences.

English 331. Classical Writers. Three hours.

The Age of Reason as recorded by the principal writers from 1660 to 1784; authors studied include—Dryden, Swift, Pope, Goldsmith, Boswell and Johnson.

English 332. Romantic Writers. Three hours.

The poets, as Wordsworth and Keats; other writers, as Hazlitt and Scott.

English 333. Victorian Writers. Three hours.

The main currents of 19th century thought from 1832-1900; emphasis on Carlyle, Tennyson and Browning.

English 341. American Writers Before 1850. Three hours.

A survey of Puritan and Colonial backgrounds; the rise of early poets and novelists; emphasis on major figures including Hawthorne, Longfellow, Thoreau and Emerson.

English 342. American Writers Since 1850. Three hours.

A continuation of English 341 from Whitman to Norris; attention to local colorists, realists and naturalists; reports and research paper.

English 363. History of the Theater. Three hours.

A study of drama as a literary form and the reading of major plays from Aeschylus to O'Neill; the theater and its audience down the centuries.

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 369G. Modern Poetry. Two hours.

English and American poets and poetry of the 20th century; survey of poetic publications, theories and criticism; emphasis on Masfield, T. S. Eliot, Auden, Sandburg, Robinson, and Frost.

English 380. Introduction to Journalism. Three hours.

Prerequisite: Permission of the instructor.

Procedures and practice in news gathering and news and feature writing; the steps in publication; participation on the staff of the college paper.

English 381. Techniques of Journalism. Three hours.

Prerequisite: Permission of the instructor.

Copy reading; makeup and its problems; editorials and editorial columns and pages; newspaper law.

English 390. Creative Writing II. Three hours.

A continuation of English 290 leading to techniques of the novel, short story and poem; intensive study and extensive writing in one of these forms; comparisons, criticisms, analyses and conferences.

English 393G. History of the Language. Three hours.

Formerly—Advanced Grammar.

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.

English 433G. English Fiction. Three hours.

The development of the English novel and short story in the 18th and 19th centuries; the major novels of the period including works of Fielding, Smollett, Austen, Dickens, Thackeray, George Eliot and Hardy.

English 434G. American Fiction. Three hours.

Formerly—Fiction.

The American novel and short story of the 19th and 20th centuries; the major novels of the period including works of Cooper, Hawthorne, Melville, Crane, Hemingway and Steinbeck.

English 435G. Shakespeare. Three hours.

A study of the life, criticism and influence of the greatest English dramatist; the reading of selected poetry, comedies, histories and tragedies.

English 436G. The English Renaissance. Three hours.

The historical study of representative works including poetry, prose, and drama from Skelton to Milton.

English 444G. Kentucky Literature and Folklore. Three hours.

A survey of the literature with themes from the settings in Kentucky; readings in the works of major writers including James

Lane Allen, Madison Cawein, Elizabeth Maddox Roberts, John Fox, Jr., James Still and Jesse Stuart; special projects and papers.

English 451G. English Poetry. Two hours.

Formerly—The English Lyric.

The great poetry of England from the Renaissance to the present with special emphasis on the lyric.

English 453G. Modern Drama. Three hours.

A survey of the modern theater; reading of recent plays including examples from Ibsen, Shaw, O'Neill and others.

English 490G. Writers' Workshop. Two or three hours.

Sustained writing; evaluation of manuscripts; study of successful authors; marketing of manuscripts; writing of fiction, non-fiction, poetry and plays.

English 501. Readings in English Literature. Two or six hours.

This course is designed to meet the needs of the graduate student who wishes advanced credit in English literature as advised by the department and his graduate committee. Extensive readings will be selected from Chaucer, Shakespeare, Milton, Pope, Burns, Wordsworth, Dickens and Hardy.

English 502. Readings in American Literature. Two to six hours.

Similar to English 501 this course emphasizes major American writers—Hawthorne, Poe, Melville, Emerson, Whitman, Clemens, Frost and Hemingway.

SPEECH AND DRAMATIC ART

REQUIREMENTS:

<i>For a Major in Speech and Dramatic Art:</i>	Sem. Hrs.
Speech 182, 280, 380 and Dramatic Art 283	12
To be selected with the approval of the department depending upon the student's emphasis on speech or dramatics. The program selected must include a minimum of eight hours in each subject	18
Minimum for a Major	30
<i>For a Minor in Speech and Dramatic Art:</i>	
Speech 182 or 380 and 284	6
Additional in dramatic art to be selected with the approval of the department	12
Minimum for a Minor	18
<i>For a Minor in Speech:</i>	
Speech 182 and 280	6
Additional in speech to be selected with the approval of the department	12
Minimum for a Minor	18

Recommendations for majors and minors:

1. It is recommended that speech emphasis majors select their second major, or minors, from the related field of English and/or social science.
2. Dramatic art emphasis majors should select their second major, or a minor, from the related field of English.
3. All majors and minors will be expected to participate in the departmental Speech-Dramatic Art Projects. It is desirable that the student earn approved credits in at least three separate activities.

Speech-Dramatic Art Projects:

A maximum of four semester hours of credit in special projects may be counted as elective credit by students who are not majors. A maximum of six semester hours in these activities may be counted as required and elective credits by majors. Credit earned in these activities in excess of the maximums indicated will be recorded and counted as additional work beyond the minimum number of hours required for the degree.

One hour of credit for each semester of effective participation will be awarded the student for work done on special departmental activities such as—major play productions; a series of studio productions; projects related to the Regional Speech Festival and Clinic; and special radio projects.

DESCRIPTION OF COURSES**Speech 182. Voice and Diction. Three hours.**

How speech sounds are made; care and improvement of the voice; essentials of distinct utterance and acceptable pronunciation; introduction to basic phonetic symbols; and correction of minor vocal irregularities. Two class periods and two laboratory hours per week.

Speech 280. Basic Speech. Three hours.

Types of speech; experiences in all speech forms, their basic techniques and theories; continued work on voice and diction; practice in organizing material, outlining and delivery. Two class periods and two laboratory hours per week.

Speech 281. Public Speaking. Three hours.

Prerequisite: Permission of the instructor.

An advanced course in public address offering practical training in oral communication of ideas; analysis, organization and delivery of original speeches; as well as informal, extemporaneous and impromptu speaking. Two class periods and two laboratory hours per week.

Speech 284. Oral Interpretation. Three hours.

Prerequisite: English 102 and sophomore standing.

This course is designed to aid the student in improving his

ability to read orally. Emphasis is upon understanding and communicating the meanings of prose, poetry and drama. Group and individual readings before the class are followed by at least one public performance. Two class periods and two laboratory hours per week.

Speech 301. Radio Workshop. Three hours.

Prerequisite: Permission of the instructor.

Planning and production of radio programs; radio station management; control room operation and microphone technique. Also discussion of techniques which carry over into television production. One class period and four laboratory hours per week.

Speech 320. Introduction to Corrective Speech. Three hours.

An introductory course in speech correction for the classroom teacher. A study of the nature, etiology and treatment of the various kinds of speech defects in order 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 321. Corrective Speech Laboratory. Two hours.

Prerequisite: Speech 320 or the equivalent.

Students work in actual laboratory situations in the Speech Laboratory. Highly recommended for all prospective teachers. Four laboratory hours per week and necessary conferences.

Speech 360. Persuasion. Three hours.

Prerequisite: Speech 280.

Study of the nature and methods of persuasion as applied to speech making for influencing group opinion and action; preparation and presentation of persuasive speeches followed by criticism and recording. Two class periods and two laboratory hours per week.

Speech 380G. Applied Phonetics. Three hours.

Phonetic analysis of speech symbolization, with practice in semi-narrow and narrow transcription. Applications are made to specific areas of speech.

Speech 381. Speech for Teachers. Three hours.

Prerequisites: English 102 and one year of teaching experience. Advanced undergraduates may enroll for the course with the permission of the instructor.

Speech irregularities found in the general school population; classroom procedures for speech courses; selections for practice and performance in the various types of speech events.

Speech 382. Argumentation and Debate. Three hours.

Procedures in debating with practical training in reasoning, analysis, briefing and delivery. Two class periods and two laboratory hours per week.

Speech 383G. Group Discussion. Three hours.

Consideration of discussion as a group process; its use in the classroom and community; experience in symposiums, panel discussions, forms, formal and informal discussions. Two class periods and two laboratory hours per week.

Speech 481G. Speech Problems. Three hours.

Individual problems of phonation, pronunciation and interpretation for experienced speakers; extensive study and research on some significant problem in speech.

DRAMATIC ART**Dramatic Art 283. Elementary Dramatics. Three hours.**

Introduction to the theater; terminology and problems of staging under circumscribed conditions; minimum essentials of play production; and play selection. Two class periods and two laboratory hours per week.

Dramatic Art 284. Acting Techniques. Three hours.

A study of acting from the aesthetic and practical viewpoints with emphasis on theories of acting for stage, radio and television. Discussions and drills on the elements of acting; voice, diction, movement, rhythm and timing. Two lecture and two laboratory hours per week.

Dramatic Art 285. Theater Design and Stage Make-Up. Three hours.

Basic training in the use of color and composition for the theater; practical experiences in designing, operation and application for productions in make-up, lighting, costuming, and scenery. One class period and four laboratory hours per week.

Dramatic Art 363G. History of the Theater. Three hours.

See English 363.

Dramatic Art 380G. Play Directing. Three hours.

Prerequisite: Dramatic Art 283.

Theories and principles of directing; casting; director's interpretation; planning action; and making the prompt-book. The project method is used and practical experience gained in play direction. Two class periods and two laboratory hours per week.

Dramatic Art 383G. Staging Techniques. Three hours.

Prerequisite: Dramatic Art 283 or the equivalent.

Advanced problems of stage management; types of modern staging; psychology of actors; and audience reaction. Two class periods and two laboratory hours per week.

Dramatic Art 385G. Playwriting and Production. Three hours.

Composition of original one-act plays stressing the use of familiar materials. The best of the plays are produced for public performance.

Dramatic Art 387. Children's Theater. Three hours.

Concentrated study of the problems involved in the organization and production of plays for and with children.

Dramatic Art 453G. Modern Drama. Three hours.

See English 453.

Dramatic Art 483G. Problems in the Theater. Three hours.

Prerequisites: Eighteen hours in dramatic art and literature and permission of the instructor.

Research and survey projects in one selected department of theater technique.

Dramatic Art 485G. Problems in Playwriting. Three hours.

Prerequisite: Approval of the instructor.

Writing the full-length play, pageant or drama for special occasions and additional experience in the one-act form. Each student is expected to complete an acceptable full-length play or equivalent work in the one-act form.

FOREIGN LANGUAGES

FRENCH

OBJECTIVES:

1. To help prospective teachers and other students with their English pronunciation, grammar, knowledge of words in general, and to strengthen their general background by introducing them to French culture.
2. To help majors and minors in French acquire the ability to read, write, and speak practical French comfortably.
3. To help prospective teachers of French by making them familiar with the techniques of teaching a foreign language—the use of maps, records, tape recordings, and practical applications of the language.

REQUIREMENTS:

<i>For a Major in French:</i>	Sem. Hrs.
French 101, 102, 201, 202, and 305 or 306.....	15
Four courses selected from French 432, 433, 434, 435, 436, 437, and 450	12
Minimum for a Major	27
<i>For a Minor in French:</i>	
French 101, 102, 201, 202, and 305 or 306.....	15
One course selected from French 432, 433, 434, 436, 437, and 450	3
Minimum for a Minor	18

DESCRIPTION OF COURSES**French 101. Beginning French. Three hours.**

Primarily reading French with the aids of conversation in classroom and records of native speakers; constant attention to review; study of how to learn a language; emphasis on strengthening one's command of English through the study of French words and grammar. Laboratory listening to recordings of lesson material and popular French artists.

French 102. Beginning French. Three hours.

A continuation of French 101.

French 201. Intermediate French. Three hours.

Reading of adapted French prose by such authors as Hugo, Balzac, Gide, etc., for the purpose of acquiring knowledge of French culture; articles from periodicals and constant improvement of pronunciation along with grammar review. More advanced work in composition and with the language by listening to recordings and tapes by famous French artists.

French 202. Intermediate French. Three hours.

A continuation of French 201 with more emphasis placed upon conversation in addition to readings from works of famous French authors.

French 305. Conversation and Composition. Three hours.

To help all students and especially those interested in teaching at the elementary level or who wish to travel to acquire the ability to write and speak French. Laboratory practice is an integral part of this course.

French 306. Rapid Reading. Three hours.

A practical approach to French literature by employing the modified works of French authors of the 19th and 20th centuries. Works selected for reading include detective stories, travel books, etc.

French 432G. Literature of the 17th Century. Three hours.

Prerequisites: French 101, 102, 201, and 202, or approval of the instructor.

Influences on the literature of the period, especially those of the Italian Renaissance and political and social conditions of the century; representative plays of Corneille, Racine, and Moliere; extracts from Descartes, Boileau, Pascal, Bossuet and others.

French 433G. Literature of the 18th Century. Three hours.

Prerequisites: The same as those listed for French 432.

Political, economic, and social literature which undermined the ideals of the preceding century; on development of rationalistic and democratic tendencies as expressed in the writing of the period leading up to the Revolution; selected material from the Encyclopedists-Buffon, Montesquieu, Voltaire, Rousseau, and others.

French 434G. Literature of the 19th Century. Three hours.

Prerequisites: The same as those listed for French 432.

Novels, dramas and poems by outstanding writers.

French 435G. Modern Writers. Three hours.

Prerequisites: The same as those listed for French 432.

Selected works of authors, well known in this century—Brieux, France, Materlink, Gide, Proust, Estaunie, and others.

French 436G. Advanced French Grammar. Three hours.

Prerequisites: The same as those listed for French 432.

This course is designed to give all students greater proficiency in writing and analyzing sentence structure. Irregular verbs and idiomatic expressions; dictionary and word study; emphasis upon pronunciation and reading current publications and periodicals.

French 437. Junior Year Abroad. Three hours.

Prerequisites: The same as those listed for French 432.

An imaginary trip aboard which affords the student experience and familiarity with the French way of life through advanced readings, composition, and reports.

***French 450G. French for Elementary Teachers. Three hours.**

Prerequisites: Students taking this course must be willing to teach the language at Breckinridge Training School or in their respective schools. Techniques of teaching French at the elementary level, extensive instruction in the operation of the language laboratory as well as elementary or refresher instruction in the more important aspects of the French language.

* This course may receive graduate credit only upon submission of a research paper dealing with certain aspects of the course.

LATIN

OBJECTIVES:

1. To help prospective teachers of any subject improve their use of the English language with respect to grammar, pronunciation, writing and vocabulary.
2. To enable students in the arts and pre-professional courses to handle technical terms more easily.
3. To prepare teachers of Latin for the primary and secondary schools.
4. To broaden the students' background by a study of Roman civilization.

REQUIREMENTS:

<i>For a Minor:</i>	Sem. Hrs.
Latin 101, 102, 201, and 202	12
Electives from Latin 301, 302, 401 or 402	6
Minimum for a Minor	18

Note: Students who have had one or two units in high school Latin may enroll in Elementary Latin 101 and receive full credit provided a mark of at least "B" is earned.

DESCRIPTION OF COURSES

Latin 101. Elementary Latin. Three hours.

Basic elements of Latin grammar; easy reading; use of the dictionary; verbal skills; vocabulary study; and background material.

Latin 102. Elementary Latin. Three hours.

Prerequisite: Latin 101 or the equivalent.

Review and continuation of grammar and easy reading; further emphasis on use of the dictionary; development of verbal skills and increased vocabulary; further reading in background material.

Latin 201. Intermediate Latin. Three hours.

Prerequisite: Latin 102 or the equivalent.

Review and continuation of Latin 102; continuing emphasis on vocabulary development and background material.

Latin 202. Intermediate Latin. Three hours.

Prerequisite: Latin 201 or the equivalent.

A study of modern problems existing in ancient Rome as revealed in the writings of Sallust and Cicero; reading of both adapted and original selections from these authors; grammar and word study; background material.

Latin 301. Advanced Latin. Three hours.

Prerequisite: Latin 202 or the equivalent.

Reading of selections from Ovid's *Metamorphoses*; mythology; scansion; word study; Ovid's influence.

Latin 302. Advanced Latin. Three hours.

Prerequisite: Latin 301 or the equivalent.

Reading of selections from Virgil's *Aeneid*; mythology; scansion; word study; collateral reading based on the Augustan Age of Rome.

Latin 401. Latin Literature. Three hours.

Prerequisite: Nine hours of Latin above the elementary level.

Study of Greek and Roman lyric poetry; reading of selections from Horace; Horatian syntax and meter; influence of Horace; word study.

Latin 402. Latin Literature. Three hours.

Prerequisite: Nine hours of Latin above the elementary level.

Reading of selections from Livy; word study; background material on Roman historical writing.

SPANISH

DESCRIPTION OF COURSES

Spanish 101. Elementary Spanish. Three hours.

A course for beginners in the language. Practice in reading, hearing, and speaking simple Spanish with essential grammatical background.

Spanish 102. Elementary Spanish. Three hours.

Prerequisite: Spanish 101 or one year of high school Spanish. A continuation of Spanish 101.

Spanish 201. Intermediate Spanish. Three hours.

Prerequisite: Spanish 102 or two years of high school Spanish. Reading of Spanish short stories and selections from essays and novels; practice in conversation; review of grammar.

Spanish 202. Intermediate Spanish. Three hours.

A continuation of Spanish 201.

Spanish 305. Conversation and Composition. Three hours.

To help all students, especially those interested in teaching at the elementary level or those who wish to travel, to acquire the ability to write and speak the language. Laboratory experience is an integral part of the course.

Spanish 308. Contemporary Spanish. Three hours.

Prerequisite: Spanish 202 or the equivalent.

Selected readings from representative novels, short stories and essays.

GEOGRAPHY

Miss Wilkes

Mr. Martin

OBJECTIVES:

1. To provide competent instruction in geography for teachers of the subject at elementary and high school levels.
2. To afford training for work as professional geographers much in demand by numerous agencies of the government, and for positions in the business, commercial, and industrial world.
3. To offer a field of major study for those students wishing to do graduate work in this subject.
4. To make a contribution to the cultural development of students.

REQUIREMENTS:

For a Major with Certificate:

	Sem. Hrs.
Geography 100, 101, 211, 241, 471, 475.....	16
Elective courses in Geography	9

Minimum for a Major 25

For a Minor:

Geography 100, 241, 300	9
Elective courses in Geography	9
Total for a Minor	18

For an Area Major in Social Sciences:

History 241, 242, 331, 332	12
Additional advanced credit in history	6
Political Science 241	3
Additional credit in political science	3
Sociology 201	3
Additional credit in sociology	3
Economics 201, 202	6
Geography 100	3
One additional course in geography	3
Six hours elective from any of the social sciences.....	6
Seminar	1
Total for an Area Major	49

SUGGESTED PROGRAM

The following program has been devised to help students in selecting their courses and making their schedules. This suggested schedule need not be followed specifically from semester to semester, but close adherence to it 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 Writing and Speaking	3	Eng. 102—Writing and Speaking	3
PE 100a—Orientation in Phys. Ed.	½	PE 100b—Orientation in Phys. Ed.	½
Freshman Orientation	1	Ed. 100—Orientation in	
Sci. 101—Intro. to Biological Sci.	3	Education	1
Hist. 131—History of Civilization	3	Sci. 102—Intro. to Biological Sci.	3
Geog. 100—Fundamentals of		Hist. 132—History of Civilization	3
Geography	3	Geog. 101—Physical Geography	3
PE 104—Personal Hygiene	2	Second Major	3
	15½		16½

SOPHOMORE YEAR

First Semester		Second Semester	
Eng. 201—Intro. to Literature	3	Eng. 202—Intro. to Literature	3
PE —Activity course	½	PE —Activity course	½
Sci. 103—Intro. to Physical Sci.	3	Sci. 104—Intro. to Physical Sci.	3
Geog. 211—Economic Geography	3	Geog. 241—Geog. of U. S. and	
Ed. 210—Human Grow. and		Canada	3
Develop. I	3	Second Major	3
Foreign Language	3	Foreign Language	3
	15½	PE 285—Community Recreation	2
			17½

JUNIOR YEAR

First Semester		Second Semester	
Geography elective	3	Ed. 300—Intro. to Student Teaching	0
Second Major	6	Geography elective	6
Foreign Language	3	Second Major	6
Elective	5	Foreign Language	3
	<hr/> 17		<hr/> 15

SENIOR YEAR

First Semester		Second Semester	
Hist. 400—American Foundations	3	Ed. 477—Professional Semester	15
Geog. 475—Teaching Geography	3		
Geog. 471—Seminar	1		
Second Major	6		
Elective	3		
	<hr/> 16		

Provisional High School Certificate with an Area of Concentration in Social Science

FRESHMAN YEAR

First Semester		Second Semester	
Eng. 101—Writing and Speaking	3	Eng. 102—Writing and Speaking	3
PE 100a—Orientation in Phys. Ed.	$\frac{1}{2}$	PE 100b—Orientation in Phys. Ed.	$\frac{1}{2}$
Freshman Orientation	1	Ed. 100—Orientation in Education	1
Sci. 101—Intro. to Biological Sci.	3	Sci. 102—Intro. to Biological Sci.	3
Geog. 100—Fundamentals of Geography	3	Soc. 201—Introductory Sociology	3
PE 104—Personal Hygiene	2	Elective	3
Elective	3	Core Curriculum	3
	<hr/> 15½		<hr/> 16½

SOPHOMORE YEAR

First Semester		Second Semester	
Eng. 201—Intro. to Literature	3	Eng. 201—Intro. to Literature	3
PE —Activity course	$\frac{1}{2}$	PE —Activity course	$\frac{1}{2}$
Sci. 103—Intro. to Physical Sci.	3	Sci. 104—Intro. to Physical Sci.	3
Hist. 241—The U. S. 1492-1865	3	Hist. 242—The U. S. 1865 to the Present	3
Ec. 201—Principles of Economics	3	Ec. 202—Economic Problems	3
Ed. 210—Human Grow. and Develop. I	3	Core Curriculum	3
	<hr/> 15½	PE 285—Community Recreation	2
			<hr/> 17½

JUNIOR YEAR

First Semester		Second Semester	
Hist. 331—Modern Europe 1500-1815	3	Ed. 300—Intro. to Student Teaching	0
P.S. 241—Government of the U.S.	3	Hist. 332—Modern Europe 1815 to the Present	3
Geog. —Elective	3	Hist. —Advanced elective	3
Soc. —Elective	3	P.S. —Elective	3
Core Curriculum	3	Core Curriculum	3
	<hr/> 15	Elective	5
			<hr/> 17

SENIOR YEAR

First Semester		Second Semester	
Hist. —Advanced elective	3	Ed. 477—Professional Semester	15
S.Sci. —Elective	6		
S.Sci. 471—Seminar	1		
Elective	3		
Core Curriculum	3		
	<hr/> 16		

DESCRIPTION OF COURSES**Geography 100. Fundamentals of Geography. Three hours.**

Reading and interpretation of maps; human activities within the major climatic regions of the earth; man's use of major physiographic features. This course is a basic requirement for further study in geography.

Geography 101. Physical Geography. Three hours.

A study of the natural elements of the earth as the habitat of the human race; fundamental earth concepts, earth materials, land-forms, weather, climate, vegetation and soils; maps of these features; correlated field trips and laboratory studies.

Geography 211. Economic Geography. Three hours.

The geography of the world's commodities and their regional aspects; a survey of manufacturing industries, extractives, and land uses against a geographic background of the natural and cultural environment. An analysis of economic geographic factors in current international affairs.

Geography 241. United States and Canada. Three hours.

Study of the major human-use regions of English-speaking North America and geographic interpretation of economic activities within these regions.

Geography 250. Elementary Cartography. Three hours.

Map projection and simple construction methods; graphic presentation of geographic data.

Geography 300. Regional Geography for Elementary Teachers. Three hours.

This course is planned specifically to guide the elementary teacher toward an understanding of the nature of regional geography and toward selection and organization of materials suited to the teaching of geography at different grade levels. Principal regions of the world are studied in as much detail as so comprehensive a course allows.

Geography 310G. Australasia. Three hours.

Prerequisite: Geography 100.

Resources of Australia, New Zealand, and neighboring islands of the Pacific and the significance of the position and the political connections of these lands.

Geography 320G. South America. Three hours.

Prerequisites: Geography 100 and 241.

Resource development and further potentialities of the countries of South America; special attention to relationship of that continent with the United States.

Geography 328G. Africa. Three hours.

Study of Africa on the basis of its resources both natural and

cultural; recognition of, and reasons for the growing importance of this continent in world affairs.

Geography 331G. Europe. Three hours.

Prerequisites: Geography 100 and 241.

Economic developments within the principal countries of this continent; economic and military importance of European conditions to the United States; geographic interpretation of current affairs.

Geography 383G. Asia. Three hours.

Prerequisites: Geography 100.

Study of the major human-use regions of India, China, and Japan; brief survey of other parts of Asia.

Geography 390G. Climatology. Three hours.

Prerequisite: Geography 100 or 101.

Description and interpretation of the elements of climate and climatic controls; classifications of types and their distribution with particular reference to the effects of climate on life.

Geography 400G. Russia. Three hours.

Prerequisite: Geography 331 or 383 or History 335.

The geography of Russia and its natural and cultural foundations with special attention to its form of government; consideration of actual and potential economic developments.

Geography 440G. World Manufacturing. Three hours.

Prerequisite: Six hours in geography or approved studies.

Analysis and interpretation of the pattern and function of selected manufacturing industries; location theory, sources of raw materials and power; character and location of markets, labor supply, and transportation; trends in regional industrial changes.

Geography 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 discussions.

Geography 475G. Teaching Geography. Three hours.

For majors in geography.

Prerequisite: Nine hours credit in geography.

Objectives in teaching geography; selection and organization of materials suitable for teaching this subject; responsibility of the geography teacher in acquainting students with world politics; advanced regional studies.

HEALTH AND PHYSICAL EDUCATION

Mr. Adams
Mr. Allen
Mr. Lucke

Mrs. Lucke
Mr. Laughlin
Mr. Mack

Miss Pemberton
Mr. Penny
Mr. Wing

OBJECTIVES:

1. To promote good health practices on the part of all students through adequate physical examinations, diagnosis, and treatment.
2. To arouse interest and develop skill in physical activities that will contribute to individual well-being while in college and general living.
3. To provide teachers with the fundamental knowledge and skills in health and physical education required for effective service in the school.
4. To develop specialists in the field.

REQUIREMENTS:

Sem. Hrs.

For all students qualifying for the Provisional High School Certificate:

Activity courses	2
Physical Education 104 and 285	4
	<hr/>
	6

**For a Major for Men: (In addition to the general requirements for all students)*

Physical Education 200, 203, 204, 298, 315, 320, 351, 365, 437, 493 and four hours from 275, 375, and 475	27
Elective in activity courses approved by the department	2
	<hr/>
Minimum for a Major	35

**For a Minor for Men: (In addition to the general requirements for all students)*

Physical Education 200, 203, 204, 315, and 320	11
Elective from Physical Education 275, 375, and 475	4
Elective from Physical Education 351, 352, 437, and 493	5
Elective in activity courses approved by the department	1
	<hr/>
Minimum for a Minor	27

**For a Major for Women: (In addition to the general requirements for all students)*

Physical Education 133, 200, 203, 204, 231, 237, 315, 320, 351, 365, 437, and 493	25
Elective in activity courses approved by the department	1
	<hr/>
Minimum for a Major	32

**For a Minor for Women: (In addition to the general requirements for all students)*

Physical Education 200, 203, 204, 237, 315, and 320	14
Elective from Physical Education 351, 437, and 493	6

Elective in activity courses approved by the department 1

Minimum for a Minor 27

*In addition to these requirements, all students majoring or minoring in physical education must earn credit in Biology 332 and 336.
Students minoring in physical education who expect to do a part of their Student Teaching in this field are required to take Physical Education 365 in addition.

SUGGESTED PROGRAM

The following program has been devised to help students in selecting their courses and making their schedules. This suggested schedule need not be followed specifically from semester to semester, but close adherence to it will aid the student in meeting all requirements for graduation.

Provisional High School Certificate with a Major in Health and Physical Education

FRESHMAN YEAR

First Semester		Second Semester	
Eng. 101—Writing and Speaking	3	Eng. 102—Writing and Speaking	3
PE 100a—Orientation in Phys. Ed.	$\frac{1}{2}$	PE 100b—Orientation in Phys. Ed.	$\frac{1}{2}$
Freshman Orientation		Ed. 100—Orientation in Education	1
Sci. 101—Intro. to Biological Sci.	3	Sci. 102—Intro. to Biological Sci.	3
Hist. 131—History of Civilization	3	Hist. 132—History of Civilization	3
Second Major		PE 200—Intro. to Physical Ed.	3
PE 104—Personal Hygiene	2	PE 285—Community Recreation	2
<hr/>		<hr/>	
15 $\frac{1}{2}$		15 $\frac{1}{2}$	

SOPHOMORE YEAR

First Semester		Second Semester	
Eng. 201—Intro. to Literature	3	Eng. 201—Intro. to Literature	3
PE —Activity course	$\frac{1}{2}$	PE —Activity course	$\frac{1}{2}$
PE 298—Officiating and Rules	2	PE 320—Plays and Games for	
PE 203—First Aid	2	Elem. Schools	2
Sci. 103—Intro. to Physical Sci.	3	PE 204—Community Health	
Second Major		Problems	2
Core Curriculum		Sci. 104—Intro. to Physical Sci.	3
<hr/>		Elective in Social Science	3
		Core Curriculum	3
<hr/>		<hr/>	
16 $\frac{1}{2}$		16 $\frac{1}{2}$	

JUNIOR YEAR

First Semester		Second Semester	
PE —Activity course	$\frac{1}{2}$	Ed. 300—Intro. to Student	
PE 375—Coaching Football		Teaching	0
or		PE —Activity course	1
PE 475—Coaching Basketball	2	Pe 275—Coaching Baseball	
PE 351—Camp Leadership	2	or	2
Biol. 336—Human Anatomy	3	PE 475—Coaching Basketball	
Second Major		PE 315—Water Safety	2
Elective		Biol. 332—Human Physiology	3
<hr/>		Second Major	6
		Elective	2
<hr/>		<hr/>	
16 $\frac{1}{2}$		16	

SENIOR YEAR

First Semester		Second Semester	
Hist. 400—American Foundations	3	Ed. 477—Professional Semester	15
PE —Activity course	$\frac{1}{2}$	<hr/>	
PE 365—Mat. and Meth. in			
Phy. Ed.	2		
PE 437—Therapeutic Exercises	3		
PE 493—Organ. and Adm. of			
Phy. Ed.	3		
Second Major			
<hr/>		<hr/>	
16 $\frac{1}{2}$			

DESCRIPTION OF COURSES**OPEN TO BOTH MEN AND WOMEN****Physical Education 104. Personal Hygiene and Public Safety. Two hours.**

Structure and function of the human body as a basis for the biological and psychological approach to the study of health; fundamental health practices; ways to improve personal health; safety practices in the home and community; accident prevention.

Physical Education 110. Archery. One-half hour.

Fundamentals of shooting; prevention of injury; shooting practice and scoring; competitive shooting.

Physical Education 133. Folk Dancing. One-half hour.

Folk dances and singing games of all nations.

Physical Education 137. Social Dancing. One-half hour.

Social dancing through practice and dance floor courtesies.

Physical Education 200. Introduction to Physical Education. Three hours.

Principles and basic philosophy; aims and objectives; standards; and significance in the school program.

Physical Education 203. First Aid. Two hours.

Stopping of bleeding; treatment and bandaging of open wounds; treatment of shock; splinting; transportation of the injured; water safety; artificial respiration; treatment for poisoning; and accident prevention.

Physical Education 204. Community Health Problems. Two hours.

Prerequisite: Physical Education 104 is desirable.

Local, state, and federal health laws; problems relating to food, milk, and water supplies; communicable diseases; the economic and social aspects of community health problems.

Physical Education 231. Modern Dance. One-half hour.

Responses to music and progressive development of rhythmic patterns; fundamental dance steps as used in folk and modern dances; creative dance composition.

Physical Education 285. Community Recreation. Two hours.

Types and purposes of different recreational groups; program planning; location of material.

Physical Education 304. Materials and Methods in Health Education. Two hours.

Principles involved in maintaining a healthful school environment; knowledge related to aims; available materials and suitable methods of instruction.

Physical Education 315. Water Safety. Two hours.

Prerequisite: Satisfactory performance of skill tests in swimming.

This course is designed to prepare students for taking the Red Cross instructor's course in swimming which will prepare them for employment as lifeguards and instructors in water safety.

Physical Education 320. Plays and Games for Elementary Schools. Two hours.

Principles of selection; use, origin, and classification of plays and games; schoolroom, gymnasium, and playground games and activities.

Physical Education 331. Advanced Modern Dance. One-half hour.

Prerequisite: Physical Education 231.

A continuation of Physical Education 231 with the learned techniques applied to direct interpretative dance forms in relation to the arts and everyday living. Individual and group choreography is stressed in preparation for a dance concert by the class at the end of the semester.

Physical Education 351G. Camp Leadership. Two hours.

History, theory, and scope of organized camping; camp styles and programs; techniques of leadership; duties and responsibilities of counselors.

Physical Education 352G. Scouting. Two hours.

A course designed to prepare leaders for scouting activities. Topics covered include—program planning; duties of masters, leaders, and administrators; the objectives of scouting; and the characteristics of effective meetings and programs. Two class meetings per week plus laboratory work which consists of working with scout troops.

Physical Education 365. Materials and Methods in Physical Education. Two hours.

Knowledge and practice in the use of materials and methods for developing skill techniques; instruction problems peculiar to physical education.

Physical Education 437G. Therapeutic Exercises. Three hours.

Prerequisites: Biology 332 and 336.

Common defects of the body and their correction through exercise.

Physical Education 490G. Driver Education. Two hours.

Motor traffic safety; technique for instructing student drivers; administering driving tests. Open only to juniors and seniors who are qualified drivers.

Physical Education 493G. Organization and Administration of Physical Education. Three hours.

Classification of students; staff; teaching load; finance; administration of the physical education plant.

Physical Education 515. Tests and Measurements in Health and Physical Education. Two hours.

Fundamental principles of evaluation in health and physical education including accepted tests for classification, neuromuscular proficiency, capacity and knowledge.

Physical Education 560. History and Principles of Physical Education. Three hours.

Formerly—Physical Education 360.

Development of physical education; analysis of its aims, objectives and principles.

SECTIONS FOR MEN AND SECTIONS FOR WOMEN

Physical Education 109a and 100b. Orientation in Physical Education One-half hour each. (Required for all freshmen.)

Elementary skills; achievement tests; general participation in seasonal team and individual sports; rhythms; stunts; swimming.

Physical Education 101. Volleyball. One-half hour.

Rules and participation in the activity.

Physical Education 102. Basketball. One-half hour.

Rules; shooting skills; individual and team tactics; both offensive and defensive.

Physical Education 103. Soccer. One-half hour.

Rules; techniques of kicking, heading, stopping the ball, running, passing, shooting, and evading; team tactics.

Physical Education 106. Softball. One-half hour.

Rules; techniques in throwing, catching, pitching, batting; offensive and defensive tactics.

Physical Education 111. Badminton. One-half hour.

Equipment and court; groundwork; stroke production including the serve, lob, smash, drop shots, and net shots; rules and scoring; match play.

Physical Education 116. Elementary Tennis. One-half hour.

Grip, stance, and other points relating to form of forehand and backhand drives and service; rules and scoring.

Physical Education 117. Elementary Swimming. One-half hour.

Elementary, side, back, and crawl strokes; diving; stunts; water safety tests.

Physical Education 122. Stunts and Gymnastics. One-half hour.

Self-testing activities; elementary tumbling and pyramid building; marching; various systems of gymnastics as a basis for conditioning exercises.

Physical Education 216. Intermediate Tennis. One-half hour.

Prerequisite: Physical Education 116 or its equivalent.

Advanced strokes; types of offensive and defensive play.

Physical Education 217. Intermediate Swimming. One-half hour.

Prerequisite: Physical Education 117 or its equivalent.

Standard strokes; diving; swimming meets.

Physical Education 316. Advanced Tennis. One-half hour.

Prerequisite: Physical Education 216 or its equivalent.

Perfection of play in tennis and tournament competition.

Physical Education 317. Advanced Swimming. One-half hour.

Prerequisite: Physical Education 217 or its equivalent.

Fancy diving; racing starts and turns; conducting meets; life saving.

CLASSES FOR WOMEN ONLY

Physical Education 113. Field Hockey. One-half hour.

Fundamental skills of stick work including drive, dribble, reverse stick, left-hand lunge, scoop, and push pass; fundamental skills of technique on bully, rool in, free hit, and corner; knowledge of the game, rules, and class games.

Physical Education 237. Coaching for Women. Three hours.

A study of the theory, methods, and mechanics of directing team sports and the rules and techniques of officiating.

CLASSES FOR MEN ONLY

Physical Education 275. Coaching Baseball. Two hours.

Fundamentals; individual and team play; organization; educational values of the game.

Physical Education 298. Officiating and Rules of Games. Two hours.

Interpretation of rules for football, basketball, baseball, tennis, softball, soccer, badminton, handball, and volleyball; techniques of officiating; practice in officiating.

Physical Education 336. Track and Field Techniques. Two hours.

History of track and field events; analysis of approved techniques; accepted methods of training. Two lecture-discussion and two demonstration periods per week.

Physical Education 337. Organization and Administration of Track and Field. Two hours.

Physical layout and facilities; effective publicity; organization of meets; track and field rules and practices. Two lecture-discussion and two demonstration periods per week.

Physical Education 375. Coaching Football. Two hours.

Fundamentals; individual and team play; organization; educational value of football.

Physical Education 475. Coaching Basketball. Two hours.

Fundamentals; individual and team play; organization; educational values of the game.

HISTORY AND POLITICAL SCIENCE

Mr. Rader
Mr. Exelbirt

Miss Saunders

Mr. Fowler
Mr. Woods

OBJECTIVES:

A. In History

1. To make the student a better American and a better citizen of the world by introducing him to those events, movements and personalities of the past which have made a significant contribution to the growth of our country and other countries.
2. To develop an appreciation for the record of man's achievements and an understanding of the influence of the past upon the world we live in today.
3. To provide an adequate foundation for those students who expect to enter the fields of law, government service, business and other professions.
4. To develop teachers of history who will have an interest in and be able to make a distinct contribution to the program of the social studies at the secondary level.

B. In Political Science

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 political science a well-balanced training in the major divisions of the field.
4. To provide teachers with a more thorough foundation for, and a greater appreciation of American principles and practices of democracy, and to create a fuller understanding of the conditions out of which have grown the issues and controversies confronting the world today, to the end that

our educational system will be a stronger force in the training of young people for active and intelligent participation in a democratic society.

REQUIREMENTS:

Sem. Hrs.

For a Major in History:

History 131, 132, 241, 242, 331, 332, 471	19
Advanced credit in history	6
Total for a Major	25

For a Minor in History:

Either History 131 and 132 or History 331 and 332	6
History 241, 242	6
Advanced credit in history	6
Total for a Minor	18

For a Major in Political Science:

Political Science 241, 242, 333, 343, 450, 471	16
Advanced credit in political science	9
Total for a Major	25

For a Minor in Political Science:

Political Science 241, 242, 343, 450	12
Advanced credit in political science	6
Total for a Minor	18

For an Area Major in Social Science:

History 241, 242, 331, 332	12
Additional advanced credit in history	6
Political Science 241	3
Additional credit in political science	3
Sociology 201	3
Additional credit in sociology	3
Economics 201, 202	6
Geography 100	3
Additional credit in geography	3
Six hours elective from any of the social sciences	6
Seminar	1
Total for an Area Major	49

SUGGESTED PROGRAMS

The following programs have been devised to help students in selecting their courses and in 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 Social Science

FRESHMAN YEAR

First Semester		Second Semester	
Eng. 101—Writing and Speaking	3	Eng. 102—Writing and Speaking	3
PE 100a—Orientation in Phys. Ed.	1½	PE 100b—Orientation in Phys. Ed.	1½
—Freshman Orientation	1	Ed. 100—Orientation in Education	1
Sci. 101—Intro. to Biological Sci.	3	Sci. 102—Intro. to Biological Science	3
Geog. 100—Fundamentals of Geography	3	Soc. 201—Introductory Sociology	3
PE 104—Personal Hygiene	2	—Elective	3
—Elective	3	—Core Curriculum	3
	15½		16½

SOPHOMORE YEAR

First Semester		Second Semester	
Eng. 201—Intro. to Literature	3	Eng. 201—Intro. to Literature	3
PE —Activity course	½	PE —Activity course	½
Sci. 103—Intro. to Physical Sci.	3	Sci. 104—Intro. to Physical Sci.	3
Hist. 241—The U.S. 1492-1865	3	Hist. 242—The U.S. 1865 to the Present	3
Ec. 201—Principles of Economics	3	Ec. 202—Economic Problems	3
Ed. 210—Human Grow. and Develop. I	3	—Core Curriculum	3
	15½	PE 285—Community Recreation	2
			17½

JUNIOR YEAR

First Semester		Second Semester	
Hist. 331—Modern Europe 1500-1815	3	Ed. 300—Intro. to Student Teaching	0
P.S. 241—Government of the U.S.	3	Hist. 332—Modern Europe 1815 to the Present	3
Geog. —Elective	3	Hist. —Advanced elective	3
Soc. —Elective	3	P.S. —Elective	3
—Core Curriculum	3	—Core Curriculum	3
		—Elective	5
	15		17

SENIOR YEAR

First Semester		Second Semester	
Hist. —Advanced Elective	3	Ed. 477—Professional Semester	15
S.Sci. —Elective	6		
S.Sci. 471—Seminar	1		
—Elective	3		
—Core Curriculum	3		
	16		

Provisional High School Certificate with a Major in History

FRESHMAN YEAR

First Semester		Second Semester	
Eng. 101—Writing and Speaking	3	Eng. 102—Writing and Speaking	3
PE 100a—Orientation in Phys. Ed.	½	PE 100b—Orientation in Phys. Ed.	½
—Freshman Orientation	1	Ed. 100—Orientation in Education	1
Sci. 101—Intro. to Biological Sci.	3	Sci. 102—Intro. to Biological Sci.	3
Hist. 131—History of Civilization	3	Hist. 132—History of Civilization	3
—Second Major	3	—Second Major	3
PE 104—Personal Hygiene	2	—Core Curriculum	3
	15½		16½

SOPHOMORE YEAR

First Semester		Second Semester	
Eng. 201—Intro. to Literature	3	Eng. 202—Intro. to Literature	3
PE —Activity course	½	PE —Activity course	½
Ed. 210—Human Grow. and Develop. I	3	Sci. 104—Intro. to Physical Science	3
Sci. 103—Intro. to Physical Science	3	Hist. 242—The U.S. 1865 to the Pres.	3
Hist. 241—The U.S. 1492-1865	3	—Second Major	6
—Second Major	3	PE 285—Community Recreation	2
	15½		17½

JUNIOR YEAR

First Semester		Second Semester	
Hist. 331—Modern Europe 1500-1815	3	Ed. 300—Intro. to Student Teaching	0
—Second Major	6	Hist. 332—Modern Europe 1815 to the Present	3
—Core Curriculum	3	Hist. —Advanced elective	3
—Elective	5	—Second Major	3
		—Core Curriculum	6
	<hr/> 17		<hr/> 15

SENIOR YEAR

First Semester		Second Semester	
Hist. —Advanced Elective	3	Ed. 477—Professional Semester	15
Hist. 471—Seminar	1		
—Second Major	3		
—Core Curriculum	3		
—Elective	6		
	<hr/> 16		

DESCRIPTION OF COURSES

SOCIAL SCIENCE

Social Science 101. Introduction to Social Science. Three hours.

Backgrounds of our culture pattern; the land and the people; the business of making a living and family development; educational influences, religious influences, and social control in its various governmental forms.

Social Science 500. Contemporary World Problems. Three hours.

Prerequisites: Graduate standing and 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.

Prerequisites: Graduate standing and 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.

HISTORY

History 131. History of Civilization. Three hours.

The conquest of civilization; classical civilization of the ancient Mediterranean world; origin of Western European Civilization; medieval institutions and culture; transition to modern times.

History 132. History of Civilization. Three hours.

The expansion of Europe; era of industrial capitalism; nationalism, democracy, and imperialism; the crisis in western civilization.

History 149. Economic History of the United States. Three hours.

See Economics 149.

History 241. United States of America, 1492-1865. Three hours.

Prerequisite: Sophomore standing preferable but open to freshmen.

Discoveries, explorations, colonization, rivalries between colonizing powers; colonial commerce and government; economic and social development; Anglo-American relations; the American Revolution with its problems; adoption of the Federal Constitution; development of national government; political parties; slavery; expansion of territory; compromise of 1850; Civil War.

History 242. United States of America, 1865 to the Present. Three hours.

Prerequisite: Sophomore standing preferable but open to freshmen.

Reconstruction; political corruption; the far West; transportation; big business; organized labor; reform movements; free silver crusade; war with Spain; Panama Canal; the Caribbean; the First World War and the problems of reconstruction; the Depression; the New Deal; the Second World War; contemporary problems.

History 331. Modern Europe, 1500-1815. Three hours.

Prerequisites: Six or more hours of college history and preferably junior standing.

The development of modern nations; the Reformation and religious wars; dynastic and economic statecraft; revolutionary development of the modern world.

History 332. Modern Europe, 1815 to the Present. Three hours.

Prerequisites: Six or more hours of college history and preferably junior standing.

Industrial Revolution; the reforms of the nineteenth and twentieth centuries; social factors in recent European history; the political and cultural growth of the various European countries; their relations to the rest of the world; peace efforts; the First World War; subsequent trends in European government and society; growth of nationalism; dictatorship; and World War II.

History 335G. History of Russia. Three hours.

Prerequisites: Six hours of history and preferably junior standing.

Beginnings of the Russian state; the Kiev period; Tartar domination; the Moscow period; Peter the Great; emergence of Russia

as a European power; attempts at westernization of Russia; political and revolutionary movements; the November Rebellion; state, society, and economy after 1917; World War II and the post-war era.

History 336G. History of France. Three hours.

Prerequisites: History 131 and 132, and junior standing.

Origins of France; medieval France; the age of Reformation and religious wars; the growth of absolutism; the age of Louis XIV; the breakdown of the old order; the French Revolution and the Napoleonic Era; the quest for a stable political order in the 19th century; the Third Republic; France during the World Wars; the destruction of the Third Republic; the Fourth Republic and its problems.

History 337G. History of Germany. Three hours.

Prerequisites: History 131 and 132, and junior standing.

The origin of Germany; Holy Roman Empire; struggle with the Pope; disintegration of the Empire; Reformation; growth of absolutism; rise of Austria and Prussia; Napoleonic Wars; movements toward unification; Second German Empire; First World War and the Weimar Republic; rise of Fascism and the Second World War; contemporary Germany and its problems.

History 338G. Great Britain and the British Commonwealth of Nations. Three hours.

Prerequisites: Six or more hours of college history and preferably junior standing.

The building of the British political, social, and economic system and expansion of the British influence to all parts of the world. Special attention will be given to the growth of the British Empire and the development of the British Commonwealth of Nations with its many ramifications.

History 339. Economic History of Europe. Three hours.

See Economics 339.

History 343G. American Political Parties. Three hours.

See Political Science 343.

History 344. History of Kentucky. Three hours.

Prerequisite: Six semester hours of history or junior standing.

Early settlement of Kentucky; becoming a Commonwealth; constitutional, social, and economic development; Civil War and readjustment; recent history and development.

History 345. The American Frontier. Three hours.

Prerequisite: History 242 and junior standing.

The merits and limitations of the Turnerian thesis; the gold rush of 1848-49 and the rise of the mineral frontier; the effect of the Homestead Act on the West; building of the transcontinentals; rise and fall of the cattle kingdom; the last stand of the Indians;

state building in the trans-Mississippi West; the West in art literature, and music.

History 348. Latin America. Three hours.

Prerequisites: History 241 and 242, and junior standing.

Spain and Portugal in the 15th century; the age of discovery and colonization; the economic, political, and social orders of Colonial Latin America; the Wars for Independence; the era of the Caudillos; the rise of the A.B.C. countries; the Spanish-American War; the "big stick" policy, dollar diplomacy, and the good neighbor policy; Latin America in World War II; politics, economics, and social conditions in Latin America today.

History 400 American Foundations. Three hours. (Required of all students who do not have credit for History 241 and 242 or the equivalent. This course satisfies three hours of the twelve hours in social science required of all students for graduation.)

Prerequisite: Second-semester junior standing.

Origin, substance, and interpretation of the Constitution; causes, crises, and reconciliations of sectionalism; history and role of political parties; states rights vs. nationalism; theory and practice of private enterprise; free public education; separation of church and state; genesis and development of the idea of personal freedom; milestones and trends in the area of foreign affairs.

History 438G. The Far East. Three hours.

Prerequisites: Junior standing and at least nine hours of history or government.

History of the early Far East; roles of England, France, and Germany in the Far East; effects of territorial agreements; American spheres of interest; recent developments in the Far East; the future Far East and its relations to the rest of the world.

History 440G. American Colonial History. Three hours.

Prerequisite: History 241.

Discovery, exploration and settlement; geographic influences; the Indians; comparison and contrast to colonization by other European peoples; development of American institutions; separation from the mother country.

History 443G. Sectional Controversies. Three hours.

Prerequisites: History 241 and junior standing.

Sectionalism in the Constitutional Convention of 1787; controversy over the War of 1812; sectional disputes concerning the U. S. Bank, the tariff, and internal improvements; the industrial North versus the agrarian South and West; birth of the Republican Party; causes of the Civil War; land and naval engagements of the Civil War; diplomacy of the North and South, 1861-65; constitutional developments, North and South, during the Civil War; politics during the Civil War; life behind the lines; why the South lost the Civil War.

History 444G. The American Constitution. Three hours.
(See Political Science 444)

History 445G. The United States, 1900 to the Present. Three hours.

Prerequisites: Junior standing and preferably History 242.

The social picture in 1900; American sports; development and trends in religion; evolution of the press and magazines; developments in architecture, painting, sculpture, music, and literature; origin, growth, and influence of the motion picture, radio, and television; trends and mileposts in education.

History 446G. American Foreign Relations before 1890. Three hours.

Prerequisites: History 241 and junior standing.

French Alliance of 1778, purchase of Louisiana; War of 1812 and its effects; Monroe Doctrine; acquisition of Oregon; Texas and the Mexican War; Maximilian episode; the Alabama affair and the Geneva Arbitrations; the period of somnolence.

History 447G. American Foreign Relations since 1890. Three hours.

Prerequisites: History 242 and junior standing.

America's beginnings in overseas imperialism; Blaine and Pan-Americanism; Spanish-American War and its repercussions; acquisition of the Panama Canal Zone; Roosevelt's "Big Stick" Policy; World War I, Wilson, and the peace; America goes isolationistic; Good Neighbor Policy; rise of the dictators; World War II; post-war developments.

History 450G. The World Since 1914. Three hours.

Prerequisite: Junior standing.

World War I; the peace treaties; the attempts to perpetuate peace among the nations and to solve worldwide economic and social problems; the history of internal movements in the major states; the rise of dictatorships; the status of democracy; the breakdown of collective security; World War II and its consequences.

History 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.

POLITICAL SCIENCE

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 citizen—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 333G. 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 343G. American Political Parties. Three hours.

(Also History 343.)

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 344G. Kentucky Government. Three hours.

Prerequisites: Political Science 241.

Constitutional development; governmental organization of Kentucky—executive, legislative, judicial; local government; party development; present-day governmental problems.

Political Science 350G. Early Political Theory. Three hours.

Prerequisites: Political Science 241 and History 131.

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.

Prerequisites: Political Science 241 and History 132.

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 444G. The American Constitution. Three hours.

(Also History 444. Formerly Political Science 446 and 447.)

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 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 242 and 332; 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; problem of European peace; problem 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 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.

HOME ECONOMICS

Miss Bolin
Mrs. Hale

Mrs. Rice
Miss Kauffman

OBJECTIVES:

1. To meet the needs of those who wish to qualify as teachers of Vocational Home Economics.
2. To offer a field of major study for students who have special interests in home economics but who may not wish to qualify as teachers of the subject.
3. To provide worthwhile experiences in home making for students majoring in other fields who can benefit from courses in home economics.

REQUIREMENTS:

For the Bachelor of Science Degree and the Certificate in Vocational Home Economics Sem. Hrs.

Home Economics 101, 130, 140, 141, 231, 241, 251, 303,
331, 351, 355, 362, 431, 451, 452, 453, 454 and 470..... 50
(Home Economics 130 may be omitted by students
making a satisfactory score on the entrance tests on
Foods)

Additional requirements in other fields:	
Freshman Orientation	1
Art 291 and 292 or approved electives	4
Science 101	3
Biology 317	4
Chemistry 111 and 112 (Special sections)	8
Economics 201	3
Education 100, 210, 300 and 477	19
English 101, 102, 201, 202 and Speech 280	15
History 132 and 400	6
Physical Education	2
Sociology 170	3
Elective	10
Minimum for the degree	128
<i>For a Major:</i> (This program does not qualify for teaching Vocational Home Economics)	
Home Economics 130, 140, 141, 231, 241, 303, 351, 355, 451 and 453	29
(Other combinations for this major may be arranged with the approval of the department.)	
<i>For a Minor:</i>	
Home Economics 130, 141, 231, 362 and 453	15
Elective in home economics approved by the department	6
Minimum for a Minor	21

SUGGESTED PROGRAM

The following program has been devised to help students in selecting their courses and making their schedules. This suggested schedule need not be followed specifically from semester to semester, but close adherence to it will aid the student in meeting all requirements for graduation.

VOCATIONAL HOME ECONOMICS

FRESHMAN YEAR			
First Semester		Second Semester	
Eng. 101—Writing and Speaking	3	Eng. 102—Writing and Speaking	3
P.E. 100a—Orientation in Phys. Ed.	½	P.E. 100b—Orientation in Phys. Ed.	½
Freshman Orientation	1	Educ. 100—Orientation in Education	1
H.Ec. 101—Personal and Family Living	3	H.Ec. 130—Elem. Nutrition and Food Planning	3
H.Ec. 141—Clothing Design and Const.	3	H.Ec. 140—Elem. Clothing and Textiles	3
Soc. 170—Rural Sociology	3	Hist. 132—History of Civilization	3
Sci. 101—Int. to Biological Science	3	Art 291—Color and Design	2
	16½		15½
SOPHOMORE YEAR			
First Semester		Second Semester	
Eng. 201—Intro. to Literature	3	Eng. 202—Intro. to Literature	3
P.E. —Activity course	½	P.E. —Activity course	½
Chem. 111—General Chemistry	4	Chem. 112—General Chemistry	4
Art 292—Costume Design	2	Educ. 210—Human Growth and Develop.	3
H.Ec. 231—Food for the Family	3	H.Ec. 251—Household Equipment	3
H.Ec. 241—Family Clothing Problems	3	Elective	3
	15½		16½

JUNIOR YEAR

First Semester		Second Semester	
Educ. 300—Intro. to Student Teaching	0	Sp. 280—Basic Speech	3
Biol. 317—Bacteriology	4	H.Ec. 331—Adv. Meal Prep. and Table Service	3
Econ. 201—Principles of Economics	3	H.Ec. 355—Child Development	3
H.Ec. 303—Home Nursing and Family Health	3	H.Ec. 451—Home Furnishings	3
H.Ec. 351—Housing	3	H.Ec. 432—Home Management	2
Elective	3	H.Ec. 362—Consumer Education	3
	<hr/> 16		<hr/> 17

SENIOR YEAR

First Semester		Second Semester	
Hist. 400—American Foundations	3	Educ. 477—Professional Semester	15
H.Ec. 431—Advanced Nutrition	3		
H.Ec. 453—Problems of the Family	3	(Offered First and Second Semesters)	
H.Ec. 454—Home Management			
House	3		
Elective	4		
	<hr/> 16		

CLASSIFICATION OF HOME ECONOMICS COURSES

Family Economics and Home Management—H. Ec. 362, 452, 454
 Housing, Home Furnishings and Equipment—H. Ec. 251, 351, 451
 Food and Nutrition—H. Ec. 130, 231, 331, 431
 Clothing and Textiles—H. Ec. 140, 141, 241, 341
 Health and Home Care of the Sick—H. Ec. 303
 Family Relations and Child Care—H. Ec. 101, 355, 453

DESCRIPTION OF COURSES

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

Understanding the college program in home economics and the professional opportunities offered; human values and their relation to good living; responsibilities to home and family; factors that contribute to a well-adjusted college life; becoming a part of the community. Two lecture-discussion periods and one two-hour laboratory period per week.

Home Economics 130. Elementary Nutrition and Food Planning. Three hours.

Food selection at home and in public places; nutritive values; requirements for different age levels; weight control; evaluation of dietaries; basic principles in preparation of beverages, fruits, egg and milk dishes, cereals, starchy sauces and desserts, salads, vegetables, meats, batters and doughs; menu planning and serving breakfast and luncheon; use and care of equipment. Two lecture-discussion periods and one two-hour laboratory period per week.

Home Economics 135. Nutrition for Nurses. Three hours.

Essential food nutrients—carbohydrates, fats, proteins, minerals, vitamins; energy metabolism; weight control; digestion and absorption; dietary requirements for different ages, sexes and life conditions.

Home Economics 140. Elementary Clothing and Textiles. Three hours.

Choice and care of clothing for college wear. Recognition of the various materials of which fabrics are made; the origin, manufacture, durability, cost, uses and care of fibers; simple tests for identification of all fibers. One lecture-discussion period and two two-hour laboratory periods per week.

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

Prerequisite: Home Economics 140.

Principles of clothing design; sewing machine and its attachments; interpretation, alteration and use of commercial patterns; problems of fitting; clothing construction processes and problems; development of techniques in the use of linen and cotton. All materials are furnished by the students. One lecture-discussion period and two two-hour laboratory periods per week.

Home Economics 231. Food for the Family. Three hours.

Principles in the preparation of pastries, deep fat frying, sugar cookery, frozen desserts and meat; planning menus by the week to meet nutritional needs of the family; serving a dinner; and food preservation and storage. One lecture-discussion and two two-hour laboratory periods per week.

Home Economics 241. Family Clothing Problems. Three hours.

Prerequisites: Home Economics 140 and 141.

A study of essential factors entering into a wise choice of clothing for the family; clothing for children of different age levels; selection of garments for all members of the family; principles of construction practices in making a minimum of three garments. One lecture-discussion period and two two-hour laboratory periods per week.

Home Economics 251. Household Equipment. Three hours.

Equipment lists; study and evaluation of available makes of each type of equipment; principles of electricity; use, care, and simple repair of home equipment. Notebook, surveys, term report, and field trips. One lecture-discussion period and two two-hour laboratory periods per week.

Home Economics 280. Textile Decoration. Two hours.

Prerequisite: Art 121 or 291.

The course provides opportunity for making objects of art for personal use through the medium of textile paintings and needlework. Individual problems are chosen and completed according to the needs and interests of students. One original design is selected and executed by each student. Two two-hour laboratory-discussion periods per week.

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

The symptoms of good and poor nutrition; basic food needs; guides for planning adequate dietaries; making nutrition a part of the school program; establishing good food habits; carrying on a school lunch program. Two lecture-discussion periods per week.

Home Economics 303. Home Nursing and Family Health. Three hours.

Prerequisite: Science 101.

Training in simple procedures in the care of the sick and minor accidents in the home; a study of disease prevention and health promotion for the family; cost of medical care. Two lecture-discussion periods and one two-hour laboratory period per week.

Home Economics 331. Advanced Meal Preparation and Service. Three hours.

Planning, preparing and serving various types of meals; emphasis on the fine points of menu building, marketing, budgeting and management of time and energy. One lecture-discussion period and two two-hour laboratory periods per week.

Home Economics 332. Quantity Cookery. Two hours.

Menu planning; amounts needed to serve groups of various sizes; food costs; food preparation and service in quantity. Special topics for investigation—principles and techniques of demonstration in foods and nutrition with practical experience.

Home Economics 341. Advanced Clothing. Two hours.

Prerequisites: Home Economics 241 and Art 292.

Application of principles of costume design to flat pattern designing and draping; development of techniques in use of natural and new fibers; application of different finishing techniques. Garments are constructed from original designs. A study is made of new developments in the textile field. Two two-hour laboratory-discussion periods per week.

Home Economics 351G. Housing. Three hours.

Prerequisite: Economics 201.

House plans and their influence on family and community life; housing laws; zoning; work areas leading to conservation of energy and time in housekeeping activities; modern trends in heating, plumbing and lighting the home; economic problems of the home; trends; housing. Lectures, discussions, field trips, reports, comprehensive scrapbook and term paper. Three lecture-discussion periods per week.

Home Economics 355. Child Development. Three hours.

The home; parents and their responsibilities; training the child in the formation of good physical, mental, social, emotional, and religious habits; applications of child psychology; toys and play

equipment; influence of nature, art, music, literature, and drama on the child; directed experiences in observing and working with pre-school children. Two lecture-discussion periods and one two-hour laboratory period per week.

Home Economics 362. Consumer Education. Three hours.

Prerequisite: Economics 201.

Selection of consumer goods and services; buying habits; legislation affecting branding, labeling and other industrial and economic problems that affect standards of living. Three lecture-discussion periods per week.

Home Economics 431G. Advanced Nutrition. Three hours.

Function of carbohydrates, fats, proteins, minerals and vitamins; energy metabolism; weight control; digestion and enzymes; dietary requirements for different ages, sexes and life conditions; national and world problems of nutrition; prevention and treatment of malnutrition; diet in common diseases; infant feeding; and planning adequate diets at various cost levels. Two lecture-discussion periods and one two-hour laboratory period per week.

Home Economics 441. Tailoring. Two hours.

Prerequisite: Home Economics 241.

Individual problems are chosen with emphasis on the selection of suitable materials; fitting and construction problems involved; fundamental tailoring problems and finishes. All material for the construction of garments, including a wool suit or coat, is furnished by the student. Two two-hour laboratory-discussion periods per week.

Home Economics 451G. Home Furnishings. Three hours.

Prerequisites: Home Economics 140, 141, and 351; and Art 291. (Non-majors who do not meet these requirements may enroll with the permission of the instructor.)

Principles of design and their application to proper treatment of interiors and selection of furniture, furnishings, and accessories; proper treatment of walls, floors, and windows. Lectures, discussions, reports, comprehensive notebook, term paper, field trips, and practical problems. Two lecture-discussion periods and one two-hour laboratory period per week.

Home Economics 452. Home Management. Two hours.

Philosophy, goals, and values of homemaking; job analysis and work simplification; care and repair of household furnishings and equipment; financial aspects of home making: budgeting, insurance, and credit.

Home Economics 453G. Social Problems of the Family. Three hours.

Historical background of the family; standards of social conduct and relationships; marriage factors which are detrimental to happy family life; position of the children in the home; economic

independence of women; home-making as a profession; the family and the community; current events that affect family life. Offered in the senior year, this course crystallizes student thinking resulting from all previous courses in home economics and its related fields.

Home Economics 454. Home Management House. Three hours.

Prerequisites: Home Economics 231, 351, and 452 (or parallel).

Experience in the practical aspects of homemaking; opportunity for social experiences. Arrangements for living in the Home Management House must be made with the head of the department. Reservations should be made by mid-term of the preceding semester.

Home Economics 470. Methods in Teaching Vocational Home Economics. Four hours.

Prerequisite: Senior standing in Home Economics. (This course is a part of Education 477—Professional Semester)

The development and organization of the vocational program; needs and interests of high school students and their families; ways of meeting needs; 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 475. Student Teaching in Home Economics. Eight hours.

Prerequisites: Home Economics 470 and permission of the Director of the Training School.

Each student is required to teach a minimum of ninety class meetings of sixty minutes each, teach units in three areas of home making, attend two class meetings each week, have individual or group conferences daily with the critic teacher, and spend such additional time in the department as is necessary for effective teaching. In addition to the day-school experience, a unit and ten lessons are planned and taught to adult and out-of-school youth. Time is also spent with the Future Homemakers of America Association, the cannery, school lunch, community organizations, and making home visits for project supervision.

INDUSTRIAL ARTS

Mr. Mays

Mr. Roberts

OBJECTIVES:

1. To train teachers of industrial arts for the secondary school and to offer service courses designed to prepare elementary teachers for more effective effort in construction activities.
2. To offer the basic courses required of engineering students.
3. To provide an opportunity for any student to develop skill in the field, both for its practical value and as an avocation.

REQUIREMENTS:

For a Major:

Sem. Hrs.

Industrial Arts 103, 110, 111, 186, 203, 210, 211, 283, 304, 311, and 471	29
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SUGGESTED PROGRAM

The following program has been devised to help students in selecting their courses and making their schedules. This suggested schedule need not be followed specifically from semester to semester, but close adherence to it will aid the student in meeting all requirements for graduation.

**Provisional High School Certificate with a Major in
Industrial Arts**

FRESHMAN YEAR

First Semester		Second Semester	
Eng. 101—Writing and Speaking	3	Eng. 102—Writing and Speaking	3
PE 100a—Orientation in Phys. Ed.	$\frac{1}{2}$	PE 100b—Orientation in Phys. Ed.	$\frac{1}{2}$
Freshman Orientation	1	Ed. 100—Orientation in Education	1
Sci. 101—Intro. to Biological Sci.	3	Sci. 102—Intro. to Biological Sci.	3
Hist. 131—History of Civilization	3	Hist. 132—History of Civilization	3
IA 103—Elem. Mechanical Drawing	3	IA 203—Advanced Mechanical Drawing	3
PE 104—Personal Hygiene	2	Com. 101—Business Arithmetic	3
	<hr/> 15 $\frac{1}{2}$		<hr/> 16 $\frac{1}{2}$

SOPHOMORE YEAR

First Semester		Second Semester	
Eng. 201—Intro. to Literature	3	Eng. 202—Intro. to Literature	3
PE —Activity course	$\frac{1}{2}$	PE —Activity course	$\frac{1}{2}$
Sci. 103—Intro. to Physical Sci.	3	Sci. 104—Intro. to Physical Sci.	3
IA 111—Elementary Woodwork	3	IA 211—Advanced Woodwork	3
IA 186—Metalwork	3	IA 283—Sheetmetal	3
Second Major	3	Second Major	3
PE 285—Community Recreation	2	IA 110—Elementary Woodturning	2
	<hr/> 17 $\frac{1}{2}$		<hr/> 17 $\frac{1}{2}$

JUNIOR YEAR

First Semester		Second Semester	
IA 304—Architectural Drawing	3	Ed. 300—Intro. to Student Teaching	0
IA 210—Advanced Woodturning	2	IA 311—Design and Const. of Furniture	3
Second Major	6	Second Major	6
Social Science Elective	3	Core Curriculum	3
Core Curriculum	3	Elective	3
	<hr/> 17		<hr/> 15

SENIOR YEAR

First Semester		Second Semester	
Hist. 400—American Foundations	3	Ed. 477—Professional Semester	15
IA 388—Machine Shop	3		
IA 471—Seminar	1		
Second Major	7		
	<hr/> 14		

DESCRIPTION OF COURSES

Industrial Arts 103. Elementary Mechanical Drawing. Three hours.

Use and care of drawing instruments and supplies; lettering;

geometric constructions; orthographic projection; dimensioning; and sectioning.

Industrial Arts 110. Elementary Woodturning. Two hours.

Sharpening and use of turning tools; exercises in spindle, face-plate, and chuck turning.

Industrial Arts 111. Elementary Woodwork. Three hours.

Care and adjustment of tools; elementary operations; construction of simple projects.

Industrial Arts 186. Metalwork. Three hours.

Selected units in bench metal, forging, heat-treating, machine shop, art metal, sheet metal, and welding together with related technical information.

Industrial Arts 203. Advanced Mechanical Drawing. Three hours.

Prerequisite: Industrial Arts 103.

Problems in projections, intersections, revolutions and developments.

Industrial Arts 210. Advanced Woodturning. Two hours.

Prerequisite: Industrial Arts 110.

Turning furniture projects on the lathe; special attention given to design and finish.

Industrial Arts 211. Advanced Woodwork. Three hours.

Prerequisite: Industrial Arts 111.

Use and care of woodworking tools and machines; design and construction of small pieces of furniture.

Industrial Arts 283. Sheet Metal. Three hours.

Care and use of sheet metal equipment. Designing, layouts, templates, soldering, brazing, seaming, punching, riveting and forming.

Industrial Arts 304G. Architectural Drawing. Three hours.

Prerequisite: Industrial Arts 203.

Architectural lettering; symbols and conventions; drawing, tracing, and blueprinting the plans of a small house.

Industrial Arts 311G. Design and Construction of Furniture. Three hours.

Prerequisite: Industrial Arts 211.

Emphasis on the operation of stationary and portable machines; machining stock for one project which must be designed, assembled and finished.

Industrial Arts 351G. House Planning and Construction. Three hours.

Planning of small homes (non-technical); building materials and fixtures.

Industrial Arts 383. Art Metal Work. Three hours.

The work is planned to require a minimum of equipment in developing projects in copper, brass, pewter, etc.

Industrial Arts 388G. Machine Shop. Three hours.

Units include basic bench metal work and experiences in the operation of the lathe, milling machine, shaper, drilling machine, and contour saw.

Industrial Arts 390. Yearbook Production. Three hours.

Prerequisite: Permission of the instructor.

Planning the book, covers, photography, special forms and copy style, printing, artwork, staff organization, and advertising.

Industrial Arts 460G. History of Industrial Arts. Three hours.

A study of the development of the field of industrial arts.

Industrial Arts 471G. Seminar. One hour.

A study of the industrial background in Europe and its influence on the development of industrial arts in the schools of the United States.

Industrial Arts 475G. Teaching Industrial Arts. Three hours.

A study of the problems in teaching and supervising industrial arts in the public schools; instructional aids, tests and measurements, and professional reading.

LIBRARY SCIENCE

Miss Williams

Miss Chapman

Miss Bradley

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:*For a Minor:*

Sem. Hrs.

Library Science 227, 301, 311, 321, 411, and 475* 18

One-half of these courses must be taken in residence. A related course in audio-visual aids and a background in the subject fields are recommended.

*If the student chooses to count Library Science 475 as part of the Student Teaching credit, she must take Library Science 322 in addition to the courses listed.

Certification requirements for the Elementary School Librarianship

An elementary teaching certificate based upon a baccalaureate or a master's degree will be valid for the elementary school librarianship, provided the following courses in library science have been completed:

	Sem. Hrs.
School library organization and administration	3
Books, references, and related materials for children and young people, which include the content of the course—Literature for Children	9
Cataloging and classification	3
School library practice	3
(The requirement in school library practice may be met by one-third of the student teaching having been devoted to school library practice or by three semester hours in school library practice being taken in addition to the full amount required in student teaching.)	

Certification requirements for the High School Librarianship

A high school certificate based upon a baccalaureate or a master's degree will be valid for the high school librarianship, provided the following courses in library science have been completed:

	Sem. Hrs.
School library organization and administration	3
Books, references, and related materials for children and young people, which include the content of the course—Literature for Children	9
Cataloging and classification	3
School library practice	3
(The requirement in school library practice may be met by one-third of the student teaching having been devoted to school library practice or by three semester hours in school library practice being taken in addition to the full amount required in student teaching.)	

Note: The certificate for the elementary school librarianship may be validated for the high school or twelve-grade librarianship upon completion of the course—Fundamentals of Secondary Education. The certificate for the high school librarianship may be validated for the elementary school or twelve-grade librarianship upon completion of the courses—Fundamentals of Elementary Education and Teaching of Reading.

DESCRIPTION OF COURSES

Library Science 227. Literature and Materials for Children. Three hours.

Formerly—Education 227.

A study of poetry; folk and fairy stories; modern fiction about history, different countries, minority groups, and animals; biography and other non-fictional books. Criteria for judging each group and methods for using each group in the school curriculum are con-

sidered. 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 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 strongly recommended.

Library Science 321G. Books and Materials for Young People. Three hours.

A study of the underlying principles 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 non-fiction fields.

Library Science 322G. Books and Materials for Young People. Three hours.

A continuation of 321G.

Examination and evaluation of books and materials in the non-fiction fields for the high school libraries. Emphasis on the fields of humanities, social studies, and the sciences—pure and applied.

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. Three hours.

Prerequisites: All other library science courses except those taken at the same time as the practice work.

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.



MUSIC

Mr. Duncan
Mr. Huffman

Mr. Carter
Mrs. Severy

Mr. Marzan
Mr. Woelflin

OBJECTIVES:

1. To develop a sensitivity to the art and a functional understanding of music.
2. To equip the prospective teacher with the materials and techniques required of vocal, instrumental, and classroom music teachers.
3. To provide the music student and the general student opportunities for participation in performing ensembles.

REQUIREMENTS:

Area of Concentration in Music: (This is the program best suited for those students who expect to teach music exclusively.)

	Sem. Hrs.
1. Applied Music	24-26
2. Theory of Music	16-20
3. History and Appreciation of Music	8
4. Music Education	5-10
5. Seminar	1
Minimum for an Area of Concentration	60

Area of Concentration in Applied Music: (This program is designed for those students who are planning for a professional career in music. It *does not* meet the requirements for certification to teach in the public schools.)

1. Applied Music	28-32
2. Theory of Music	18-21
3. History and Appreciation of Music	8-12
4. Recital	2
Minimum for an Area of Concentration	60

Area of Concentration in Music Theory: (This program is designed for those students who are planning for a professional career as composer or arranger, or as a theory teacher.)

1. Applied Music	16-20
2. Theory of Music	22-30
3. History and Appreciation of Music	8-12
4. Concert of Original Compositions	2
5. Music Education (for students who expect to qualify for certification)	5-10
Minimum for an Area of Concentration	60

Teaching Major in Music: (This program provides a basic background of preparation in the field of music education. Students selecting this major must complete the requirements for an additional major, or two minors.)

1. Applied Music	14-18
2. Theory of Music	12-15
3. History and Appreciation of Music	2
4. Music Education	5- 8
5. Seminar	1
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Minimum for the Major	36

Teaching Minor in Music:

1. Applied Music	11
2. Theory of Music	6
3. History and Appreciation of Music	2
4. Music Education	5
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Minimum for the Minor	24

Non-Teaching Major in Music:

1. Applied Music	8
2. Theory of Music	12
3. History and Appreciation of Music	2
4. Elective in any area of music	3
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Minimum for the Major	25

Non-Teaching Minor in Music:

1. Applied Music	6
2. Theory of Music	6
3. History and Appreciation of Music	2
4. Elective in any area of music	4
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Minimum for the minor	18

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 of Concentration in Music Education

FRESHMAN YEAR

First Semester		Second Semester	
Eng. 101—Writing and Speaking	3	Eng. 101—Writing and Speaking	3
PE 100a—Orientation in Phys. Ed.	$\frac{1}{2}$	PE 100b—Orientation in Phys. Ed.	$\frac{1}{2}$
—Freshman Orientation	1	Ed. 100—Orientation in Education	1
Sci. 101—Intro. to Biological Sci.	3	Sci. 102—Intro. to Biological Sci.	3
Hist. 131—History of Civilization	3	Hist. 132—History of Civilization	3
Mus. 131—Fund. of Music Theory I	3	Mus. 132—Fund. of Music Theory II	3
Mus. 161—Literature of Music I	1	Mus. 162—Literature of Music II	1
Private Applied Music	1	Private Applied Music	1
Large Ensembles	1	Large Ensembles	1
	<hr/> 16 $\frac{1}{2}$		<hr/> 16 $\frac{1}{2}$

SOPHOMORE YEAR

First Semester		Second Semester	
Eng. 201—Intro. to Literature	3	Eng. 202—Intro. to Literature	3
PE —Activity course	$\frac{1}{2}$	PE —Activity course	$\frac{1}{2}$
Sci. 103—Intro. to Physical Sci.	3	Sci. 104—Intro. to Physical Sci.	3
PE 104—Personal Hygiene	2	PE 285—Community Recreation	2
Mus. 231—Fund. of Music Theory III	3	Mus. 232—Fund. of Music Theory IV	3
Private Applied Music	1	Private Applied Music	1
Large Ensembles	1	Class Applied Music	1
Small Ensembles	1	Large Ensembles	1
Class Applied Music	1	Ed. 210—Human Growth and Develop. I	3
	<hr/> 15 $\frac{1}{2}$		<hr/> 17 $\frac{1}{2}$

JUNIOR YEAR

First Semester		Second Semester	
—Core Curriculum	3	Ed. 300—Intro. to Student Teaching	0
Mus. 361—History of Music I	3	Mus. 362—History of Music II	3
Mus. 471—Choral Conducting	2	Social Science Elective	3
Elective in Mus. Theory	2	Elective in Mus. Theory	2
Elective	3	Elective in Mus. Ed.	3
Private Applied Music	1	Private Applied Music	1
Class Applied Music	1	Class Applied Music	1
Large Ensembles	1	Large Ensembles	1
Small Ensembles	1	Small Ensembles	1
	<hr/> 17	Class Piano (if needed)	0 or 1
			<hr/> 15 or 16

SENIOR YEAR

First Semester		Second Semester	
Hist. 400—American Foundations	3	Ed. 477—Professional Semester	15
—Core Curriculum	3		
Mus. 460—Recital (or Mus. 450)	1 or 2		
Mus. 480—Seminar	1		
Pri. Applied Music	0 or 1		
Class Applied Music	1		
Large Ensembles	1		
Class Piano (if needed)	0 or 1		
Small Ensembles	1		
Elective in Mus. Ed.	3		
	<hr/> 15 to 17		

Area of Concentration in Applied Music

FRESHMAN YEAR

First Semester			Second Semester		
Eng.	101—Writing and Speaking	3	Eng.	102—Writing and Speaking	3
PE	100a—Orientation in Phys. Ed.	$\frac{1}{2}$	PE	100b—Orientation in Phys. Ed.	$\frac{1}{2}$
	Freshman Orientation	1	Sci.	102—Intro. to Biological Sci.	3
Sci.	101—Intro. to Biological Sci.	3	Hist.	132—History of Civilization	3
Hist.	131—History of Civilization	3	Mus.	132—Fund. of Music	3
Mus.	131—Fund. of Music	3		Theory II	3
	Theory I	3	Mus.	162—Literature of Music II	1
Mus.	161—Literature of Music I	1		Private Applied Music	2
	Private Applied Music	1		Large Ensembles	1
	Large Ensembles	1			
		<hr/> 16 $\frac{1}{2}$			<hr/> 16 $\frac{1}{2}$

SOPHOMORE YEAR

First Semester			Second Semester		
Eng.	201—Intro. to Literature	3	Eng.	201—Intro. to Literature	3
PE	—Activity course	$\frac{1}{2}$	PE	—Activity course	$\frac{1}{2}$
Sci.	103—Intro. to Physical Sci.	3	PE	104—Intro. to Physical Sci.	3
	Foreign Language	3		Foreign Language	3
PE	104—Personal Hygiene	2	Mus.	232—Fund. of Music	3
Mus.	231—Fund. of Music	3		Theory IV	3
	Theory III	3		Private Applied Music	2
	Private Applied Music	1		Ensembles	1
	Ensembles	1		Elective in Applied	1
		<hr/> 16 $\frac{1}{2}$		Music	1
					<hr/> 16 $\frac{1}{2}$

JUNIOR YEAR

First Semester			Second Semester		
	Social Science Elective	3		Foreign Language	3
	Foreign Language	3	Math.	132—General Mathematics	3
Math.	131—General Mathematics	3		Elective in Music	2
	Elective in Mus. Theory	2		Theory	2
	Private Applied Music	2		Private Applied Music	2
	Elective in Applied	2		Elective in Applied	1
Music		2	Music		1
	Ensembles	1		Ensembles	1
		<hr/> 16		Elective in Music	4
					<hr/> 16

SENIOR YEAR

First Semester			Second Semester		
Hist.	400—American Foundations	3	Mus.	362—History of Music II	3
Mus.	361—History of Music	3	Mus.	460—Senior Recital	2
	Elective in Mus. Theory	2		Private Applied Music	2
	Private Applied Music	2		Ensembles	1
	Elective in Applied	2		Elective in Music	4
Music		2		General Elective	3
	Ensembles	1			
	Elective in Music	2			
		<hr/> 15			<hr/> 15

Provisional High School Certificate with an Area of Concentration in Music Theory

FRESHMAN YEAR

First Semester			Second Semester		
Eng.	101—Writing and Speaking	3	Eng.	102—Writing and Speaking	3
PE	100a—Orientation in Phys. Ed.	$\frac{1}{2}$	PE	100b—Orientation in Phys. Ed.	$\frac{1}{2}$
	Freshman Orientation	1	Ed.	100—Orientation in Education	1
Sci.	101—Intro. to Biological Sci.	3	Sci.	102—Intro. to Biological Sci.	3
Hist.	131—History of Civilization	3	Hist.	132—History of Civilization	3
Mus.	131—Fund. of Music Theory I	3	Mus.	132—Fund. of Music	3
Mus.	161—Literature of Music I	1		Theory II	3
	Private Applied Music	1	Mus.	161—Literature of Music II	1
	Large Ensembles	1		Private Applied Music	1
		<hr/> 16 $\frac{1}{2}$		Large Ensembles	1
					<hr/> 16 $\frac{1}{2}$

SOPHOMORE YEAR

First Semester		Second Semester	
Eng. 201—Intro. to Literature	3	Eng. 202—Intro. to Literature	3
PE —Activity course	$\frac{1}{2}$	PE —Activity course	$\frac{1}{2}$
Sci. 103—Intro. to Physical Sci.	3	Sci. 104—Intro. to Physical Sci.	3
Ed. 210—Human Grow. and Develop. I	3	Core Curriculum	3
Mus. 263—Elementary Composition I	2	Mus. 264—Elementary Composition II	2
Mus. 231—Fund. of Mus. Theory III	3	Mus. 232—Fund. of Mus. Theory IV	3
PE 104—Personal Hygiene	2	Private Applied Music	1
Ensembles	1	Class Applied Music	1
		Ensembles	1
	<hr/> 17½		<hr/> 17½

JUNIOR YEAR

First Semester		Second Semester	
Mus. 361—History of Music I	3	Ed. 300—Intro. to Student Teaching	0
Mus. 363—Intermed. Composition I	2	Elective in Social Science	3
PE 285—Community Recreation	2	Mus. 362—History of Music II	3
Elect. in Music Ed.	3	Mus. 363—Intermediate Composition II	2
Private Applied Music	1	Mus. 445—Form and Analysis	2
Class Applied Music	1	Elective in Music Educ.	3
Ensembles	1	Private Applied Music	1
Class Piano		Class Applied Music	1
(if needed)	0 or 1	Ensembles	1
		Class Piano	
		(if needed)	0 or 1
	<hr/> 16 or 17		<hr/> 16 or 17

SENIOR YEAR

First Semester		Second Semester	
Hist. 400—American Foundations	3	Ed. 477—Professional Semester	15
Mus. 471 or 472—Conducting	2	Large Ensemble	0 or 1
Mus. 463—Advanced Composition I	0 or 2		
Mus. 331—Counterpoint	2		
Mus. 470—Recital	2		
Mus. 480—Seminar	1		
Priv. Applied Music	1		
Mus. 446—Form and Analysis	2		
	<hr/> 13 or 15		<hr/> 15 or 16

Area of Concentration in Music Theory (Without Certification)

FRESHMAN YEAR

First Semester		Second Semester	
Eng. 101—Writing and Speaking	3	Eng. 102—Writing and Speaking	3
PE 100a—Orientation in Phys. Ed.	$\frac{1}{2}$	PE 100b—Orientation in Phys. Ed.	$\frac{1}{2}$
Freshman Orientation	1	Sci. 102—Intro. to Biological Sci.	3
Sci. 101—Intro. to Biological Sci.	3	Hist. 132—History of Civilization	3
Hist. 131—History of Civilization	3	Mus. 132—Fund. of Music Theory II	3
Mus. 131—Fund. of Music Theory I	3	Private Applied Music	2
Private Applied Music	1	Private Piano	1
Ensembles	1	Ensembles	1
	<hr/> 15½		<hr/> 16½

SOPHOMORE YEAR

First Semester		Second Semester	
Eng. 201—Intro. to Literature	3	Eng. 202—Intro. to Literature	3
PE —Activity course	$\frac{1}{2}$	PE —Activity course	$\frac{1}{2}$
Sci. 103—Intro. to Physical Sci.	3	Sci. 104—Intro. to Physical Sci.	3
Mus. 231—Fund. of Mus. Theory III	3	Mus. 232—Fund. of Music Theory IV	3
Mus. 263—Elementary Composition I	2	Mus. 264—Elementary Composition II	2
Private Applied Music	1	Private Applied Music	1
Foreign Language	3	Foreign Language	3
PE 104—Personal Hygiene	2	Ensembles	1
	<hr/> 17½		<hr/> 16½

JUNIOR YEAR

First Semester		Second Semester	
Math. 131—General Mathematics	3	Math. 132—General Mathematics	3
Foreign Language	3	Foreign Language	3
Elective in Social Sci.	3	General Elective	3
Mus. 363—Intermed. Composition I	2	Mus. 364—Intermed. Composition II	2
Mus. 445—Form and Analysis I	2	Mus. 446—Form and Analysis II	2
Private Applied Music	1	Private Applied Music	1
Class Applied Music	1	Class Applied Music	1
Ensembles	1	Ensembles	1
	<hr/> 16		<hr/> 16

SENIOR YEAR

First Semester		Second Semester	
Mus. 331—Counterpoint	2	Hist. 400—American Foundations	3
Mus. 361—History of Music I	3	Mus. 362—History of Music II	3
Mus. 463—Advanced Composition I	2	Mus. 464—Advanced Composition II	2
Private Applied Music	1	Mus. 470—Recital	2
Class Applied Music	1	Private Applied Music	1
Ensembles	1	Class Applied Music	1
Elective	5	Ensembles	1
	<hr/> 15	Elective	<hr/> 2
			<hr/> 15

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 student with an area of concentration in music is expected to register for private instruction on his major applied instrument every semester for a total minimum of eight semester hours of credit. In the freshman year the instruction will entail both individual and small group instruction, the latter to develop ensemble skills. In the sophomore, junior, and senior years the distribution between individual and group instruction will be determined by the needs of the individual.

A student with an area of concentration in music education will participate each semester in a large ensemble representing his applied major, with or without credit. He will also participate in an additional large ensemble for four consecutive semesters. A student with an area of concentration in applied music will elect one large and one small ensemble each semester, with or without credit.

A student with an area of concentration in applied music will prepare and present a partial recital during his junior year and a full recital in his senior year. At least four weeks before the date of his recital he will play all or part of his proposed program for a faculty jury upon whose approval he will be allowed to present the recital.

A student with an area of concentration in music education must elect one of the following alternatives: (1) Prepare and present a public senior recital on the approval of a faculty jury granted at least four weeks prior to the recital date; or (2) Prepare and present

a partial recital for a faculty jury only and, in addition, take an examination (oral and/or written) on music education.

At the close of each semester applied music examinations will be heard by a faculty jury. All students studying applied music privately are expected to perform.

Twice each month the department presents an informal student recital. Students are scheduled to perform on the advice of their instructors. All music majors and area of concentration students are required to attend at least five of these informal recitals each semester. The college and the department of music sponsor a number of formal concerts and recitals, both professional and student, each year. Music majors and area of concentration students are expected to attend these performances. Excessive absences from either the formal or informal concerts and recitals will affect applied music marks.

A student who is preparing to teach music, and whose major applied instrument is not piano, must meet certain minimum piano requirements by examination. Private or class piano may be elected for the purpose of preparing the student for the qualifying examination. The material for the examination will consist of the following:

1. Some facility in scales, including a knowledge of key signatures.
2. Performance of compositions of approximately third grade difficulty from the works of Clementi, Bach, Mozart, etc.
3. Sight reading of four-part hymns and simple instrumental and vocal accompaniments.

Fees for Applied Music:

Private lessons	Per Semester
*Two lessons per week	\$35.00
*One lesson per week	20.00
Practice room rental and organ fee	5.00
Instrument rental	3.00

*Under certain conditions beginning students in Applied Music may be assigned to a student assistant for instruction. In this event the lesson fee is one-half that charged for work with members of the college staff.

DESCRIPTION OF COURSES

Note: An "A" after the number designation indicates private instruction for two hours of credit. "Aa" indicates private instruction for one hour of credit.

Music 111-412. Class Voice. One hour of credit per semester.

Fundamentals of voice production. Study of selected literature to meet the needs of the individuals.

Music 111A(a)-512A(a). Private Voice. One or two hours of credit per semester.

Fundamentals of singing, utilizing basic repertoire including

literature in English, Italian, French, and German. Advanced work according to the ability of the student.

Music 114-415. Class Strings. One hour of credit per semester.

Instruction in the basic techniques of playing violin, viola, violincello, and double bass.

Music 114A(a)-515A(a). Private Strings. One to two hours of credit per semester.

Instruction in the functional techniques of playing one of the string instruments. Advanced work according to the ability of the student.

Music 117-418. Class Piano. One hour of credit per semester.

Designed primarily for music education majors whose major applied instrument is other than piano. The courses are intended to prepare the student to meet the minimum piano requirements.

Music 117A(a)-518A(a). Private Piano. One or two hours of credit per semester.

Instruction in the fundamentals of piano playing, the notation of music, reading, and the development of interpretation and technique with emphasis on styles of the various periods and composers. Advanced work according to the ability of the student.

Music 144A(a)-545A(a). Private Organ. One or two hours of credit per semester.

Prerequisites: Advanced technique in piano and the consent of the instructor.

Fundamentals of organ technique with emphasis on the works of the standard organ composers such as Mendelssohn, Bach, Guilman, Franck, Dupre, etc. Advanced work according to the ability of the student.

Music 151-452. Class Woodwinds. One hour of credit per semester.

Instruction in the basic techniques of playing flute, oboe, clarinet, bassoon, and saxophone.

Music 151A(a)-552A(a). Private Woodwinds. One or two hours of credit per semester.

Instruction on one of the woodwind instruments. Advanced work according to the ability of the student.

Music 154-455. Class Brasswinds. One hour of credit per semester.

Instruction in the basic techniques of playing French horn, trumpet, trombone, euphonium, and tuba.

Music 154(a)-555A(a). Private Brasswinds. One or two hours of credit per semester.

Instruction on one of the brasswind instruments. Advanced study according to the ability of the student.

Music 157-458. Class Percussion. One hour of credit per semester.

Instruction in the basic principles of playing the various standard percussion instruments.

Music 327 and 328. Accompanying. One hour each.

Prerequisite: Consent of the department.

Open to qualified piano students. Instruction and practice in the playing of accompaniments for individuals and groups.

Music 360. Junior Recital. One hour.

Required of all juniors with an area of concentration in applied music.

Music 450. Applied and Music Education Examination. One hour.

May be elected by students taking the area of concentration in music education as an alternative to Music 460.

Music 460. Senior Recital. Two hours.

Required of seniors with an area of concentration in applied music. Open to other music majors with the consent of the department.

Music 470. Composition Recital. Two hours.

Preparation and performance of original works.

ENSEMBLES

A maximum of eight semester hours of credit in the large ensembles may be counted as elective credit by students who are not majoring in music. A maximum of eight semester hours in the large ensembles and four semester hours in the small ensembles and opera workshop may be counted as required and elective credit by majors in music. Credit earned in these courses in excess of the maximum indicated will be recorded and counted as additional work beyond the number of hours required for the degree.

Auditions for the various ensembles which require auditions will be held during the first week of each semester in order that students wishing credit may register without penalty.

LARGE ENSEMBLES

Chorus. Open to all students who are interested in singing. Two rehearsals per week. One hour of credit per semester.

Marching Band. Open to all students who play wind or percussion instruments. Required of each music student whose major performing instrument is brass, woodwind or percussion. One hour of credit per semester.

Symphonic Band. Open to students who are able to qualify by audition. One hour of credit per semester.

Beginning Orchestra. Designed for students who desire orchestra experience but who cannot meet the requirements for membership in the concert orchestra. Open to all students who can qualify. One hour of credit per semester.

Concert Orchestra. Open to students who can qualify by audition. One hour of credit per semester.

SMALL ENSEMBLES

Music 187-488V. Madrigal Singers. Open to selected singers who can qualify by audition. One hour of credit per semester.

Music 187-488V. Concert Choir. Open to a limited number of singers selected by audition. One hour of credit per semester.

Music 187-488V. Opera Workshop. Open to students upon consent of the instructor. Problems of opera production with preparation and public performance of a selected opera. One hour of credit per semester.

Music 187-488B. Brass Choir. Open to selected brass instrumentalists who are able to qualify by audition. One hour of credit per semester.

Music 187-488BW. Symphonic Wind Ensemble. Open to a limited number of students selected by audition. One hour of credit per semester.

Music 187-488W. Woodwind Ensemble. Open to a selected group by audition. One hour of credit per semester.

Music 187-488S. String Ensemble. Open to selected string players who can qualify by audition. One hour of credit per semester.

Music 187-488P. Piano Ensemble. Open to piano students upon consent of the instructor. Emphasis placed on sight reading, solo and ensemble performance, piano literature, and accompanying. One hour of credit per semester.

Music 187-488. Additional small ensembles to be organized as needed to meet the needs of students. One hour of credit per semester.

THEORY OF MUSIC

Music 100. Rudiments of Music. Three hours.

A course in the fundamentals of music notation and the basic elements of music theory. Some work in class voice and piano. Required for elementary certificate. Prerequisite for Music 221. Offered each semester and summer session. Four periods per week.

***Music 131. Fundamentals of Music Theory I. Three hours.**

Sight-singing, dictation, keyboard and written harmony in one integrated course. Offered during the first semester. Four periods per week.

***Music 132. Fundamentals of Music Theory II. Three hours.**

Continuation of Music 131. Required for a major or minor. Offered during the second semester. Four periods per week.

Music 231. Fundamentals of Music Theory III. Three hours.

A continuation of Music 132. Required for a major. Offered during the first semester. Four periods per week.

Music 232. Fundamentals of Music Theory IV. Three hours.

A continuation of Music 231. Required for a major. Offered during the second semester. Four periods per week.

Music 263. Elementary Composition I. Two hours.

Prerequisite: Music 132 or consent of the instructor.

A study of basic melodic, harmonic, rhythmic and formal principles of composition; extensive experimentation in melody writing with simple harmonic accompaniment.

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 331G. Counterpoint. Two hours.

Prerequisite: Music 132 or the equivalent.

Elementary two and three-part writing; imitation; motive; development; two and three-part inventions; fugal writing for selected instruments and voices.

Music 363. Intermediate Composition I. Two hours.

Prerequisite: Music 264.

Study of contemporary forms, styles and materials through the use of scores and recordings; original compositions in selected styles and forms; emphasis upon performance of students' works.

Music 364. Intermediate Composition II. Two hours.

Prerequisite: Music 363.

A continuation of Music 363.

Music 431. Arranging. Two hours.

Prerequisite: Music 132 or the equivalent, or approval of the instructor.

A study of the practical ranges of voices and instruments; transposition; scoring of selected materials and/or original compositions for voices and instruments.

Music 432. Advanced Arranging. Two hours.

Prerequisite: Music 431.

Continuation of Music 431; scoring for large vocal and instrumental ensembles; arranging for dance bands.

Music 445G. Form and Analysis I. Two hours.

Prerequisite: Music 132 or consent of the instructor.

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 446G. Form and Analysis II. Two hours.

Prerequisite: Music 445.

A continuation of Music 445 with emphasis upon advanced forms—rondo, sonata, fugue and large choral and orchestral forms.

Music 463G. Advanced Composition I. Two hours.

Prerequisite: Music 364.

A continuation of Music 364. Experiments in scoring for large ensembles; study of relationships of the various choirs; attention to the development of pieces as they are influenced by the various media of expression. Both class and private study involved.

Music 464G. Advanced Composition II. Two hours.

Prerequisite: Music 463.

A continuation of Music 463. Consideration of continuity and timing in the development of melodic, harmonic and rhythmic materials; experiments in the use of tone color contrasts in the melodic line(s) and in the accompanimental figures.

Music 531. Arranging for the Marching Band. Two hours.

Prerequisite: Music 432 or the equivalent.

Study of half-time show styles; experiments in arranging in selected styles; attention to individual needs.

Music 563. Creative Writing I. Two hours.

Prerequisite: Music 464 or the equivalent.

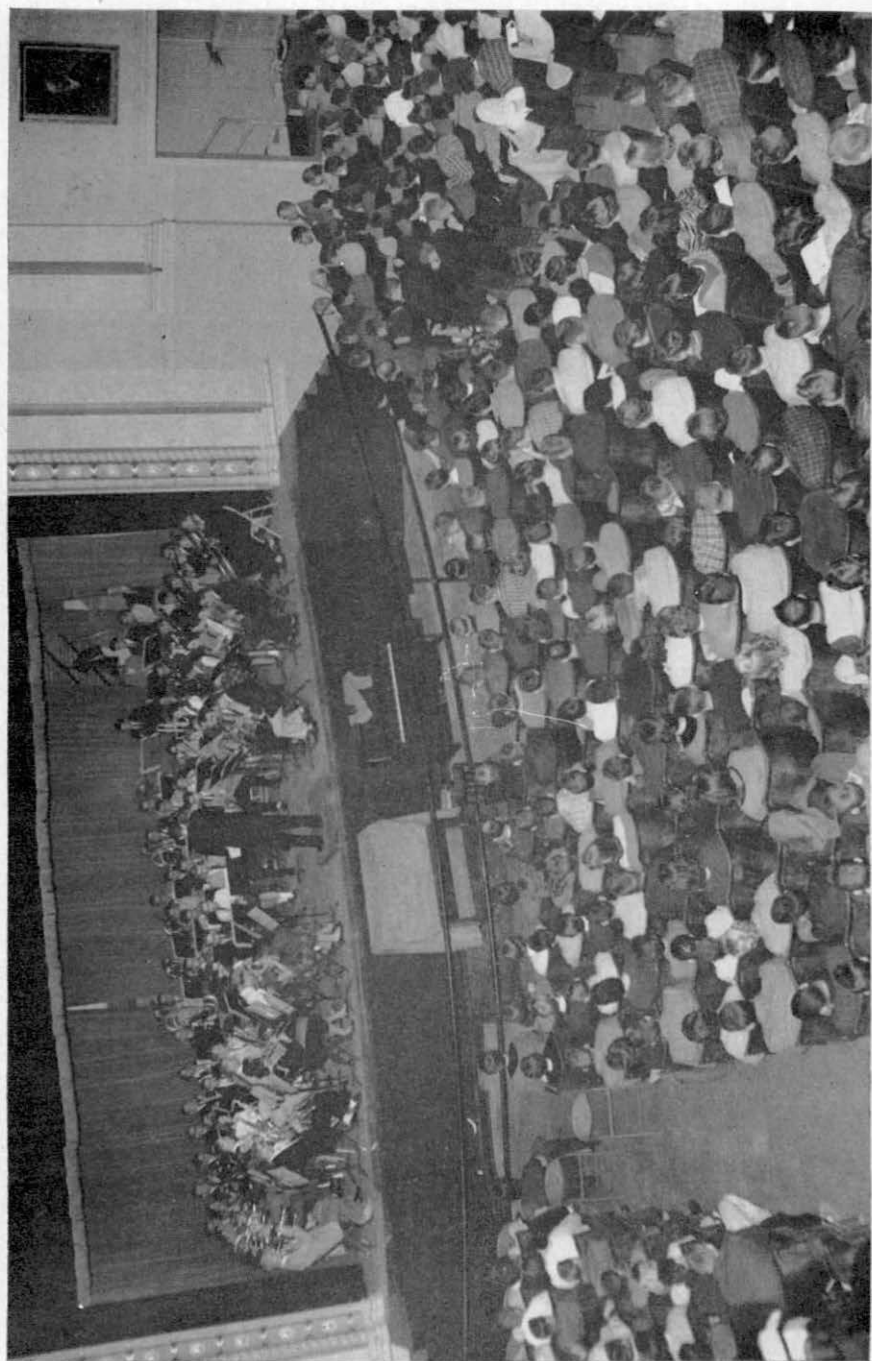
Private coaching and advising in the development of the student's individual style of composition.

Music 564. Creative Writing II. Two hours.

Prerequisite: Music 563.

Continuation of Music 563. Public or semi-public performance of the student's selected works.

*Freshman students who have studied theory previously may, after passing an examination, elect Music 263 and 264 in lieu of one or both of these courses. Music theory majors, who pass the examination, may elect other theory courses for which they are qualified.



MUSIC EDUCATION

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.

Offered each semester and summer session.

Music 300. Workshop for Elementary Teachers. Three hours.

The organization of this workshop is such that elementary teachers have an opportunity to work with materials and techniques designed to meet the everyday needs of the school room. Credit earned may be substituted for Music 100 or 221.

Music 300P. Piano Workshop and Clinic. One hour.

An intensive experience with the techniques and procedures of class piano for piano teachers and teachers of public school music.

Music 301-502. Clinics in Public School Music. Three hours. (Offered only by extension.)

The emphasis in these courses is directed toward the needs of the individuals enrolled. The content is related directly to the public school program in the areas of vocal, instrumental, and classroom music.

Music 325. Materials and Methods for Elementary Grades. Three hours.

Prerequisite: Music 232.

A course in materials and methods for the primary and intermediate grades.

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; use of the organ in the service; and planning of worship services. Required of organ majors.

Music 335. Field Experience. Three hours.

(Open only to advanced students.)

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 375. Materials and Methods for Junior and Senior High School. Three hours.

Prerequisite: Music 232.

Discussion of the various activities including chorus, glee club, orchestra, band, practical or applied music, history and appreciation,

and theory. Special attention is given to the subject of the adolescent voice and to correlation and integration of music with other subjects.

Music 376. Instrumental Materials and Methods. Three hours.

Prerequisite: Credit for Applied Music in at least two of the following fields: Strings, Brasswind, Woodwind, Percussion.

Materials and methods for the instrumental program from the elementary grades through the senior high school. Discussion of methods of instruction, organization of materials, teaching procedures, and instrumental techniques; beginning, concert, and marching bands; orchestra and ensembles; rehearsal procedures and administration. Special consideration will be given to the evaluation of methods and repertoire for the various phases of the instrumental program.

Music 377. Instrument Repair and Maintenance. One hour.

Demonstration and practice in the repair and maintenance of string, brasswind, percussion, and woodwind instruments including reed construction. Elective for majors and minors. Two hours per week.

Music 400. Advanced Workshop in Elementary School Music. Two hours.

A continuation of the experience begun in Music 300.

Music 471G. Choral Conducting. Two hours.

Prerequisite: Music 232.

Required of voice students taking the area of concentration in music education. Fundamental principles of choral conducting, the study of choral literature and experience in conducting vocal ensembles. Two hours per week plus laboratory periods as needed.

Music 472G. Instrumental Conducting. Two hours.

Prerequisite: Music 232.

Required of instrumental students taking the area of concentration in music education. Fundamental principles of instrumental conducting, study of instrumental literature and experience in conducting instrumental ensembles. Two hours per week plus laboratory periods as needed.

Music 479. Marching Band Workshop. Two hours.

An intensive experience designed for those who are responsible for marching bands. Designing and staging of field maneuvers.

Music 480. Seminar. One hour.

This seminar is designed to be an aid to music major and minor students through the discussion of and possible solution of special problems which they as music teachers will meet in the service field. Required of Area Major Students. Two class meetings per week.

Music 513. Teaching of Voice. Two hours.

Prerequisite: Undergraduate major or minor in music with a minimum of four semesters of voice study or two years of voice teaching.

Evaluation of prevalent teaching methods, vocal problems and vocal materials. Observation and practical experience in teaching and coaching.

Music 516. Teaching of Strings. Two hours.

Prerequisite: Undergraduate major or minor in music with a minimum of four semesters of stringed instrument study or two years experience as a teacher of strings.

A survey of teaching techniques and materials at all levels with emphasis upon applications to the school orchestra program.

Music 519. Teaching of Piano. Two hours.

Prerequisite: Undergraduate major or minor in music with a minimum of four semesters of piano study or two years of piano teaching.

Study of teaching materials and techniques at all levels.

Music 532. Teaching of Theory. Two hours.

Prerequisite: Four semesters of Theory.

Survey of the areas of theory usually taught on the secondary and undergraduate college levels; reviews and criticisms of selected texts; attention to techniques of presentation.

Music 553. Teaching of Woodwinds. Two hours.

Prerequisite: Undergraduate major or minor in music with a minimum of four semesters of woodwind study or two years of woodwind teaching.

Detailed study of methods of teaching flute, oboe, the clarinets, the saxophones and bassoon; materials to be used in instruction; attention to specific problems of performance.

Music 556. Teaching of Brasses. Two hours.

Prerequisite: Undergraduate major or minor in music with a minimum of four semesters of brass study or two semesters of brass teaching.

Comparative study of the various techniques and recent trends in the teaching of brass instruments; intensive consideration of the problems involved in performance.

Music 561. Teaching of Music Appreciation. Two hours.

Prerequisite: Music 221 or the equivalent. Not open to students who have majored in music at the undergraduate level.

A study of recorded music and supplementary materials used in teaching music appreciation in the schools and the methods of presentation.

MUSIC HISTORY AND APPRECIATION

Fine Arts 160. Appreciation of the Fine Arts. Two hours.

Common expressions such as organization of form, rhythm, repetition, unity, harmony and tonality will be made meaningful through discussions, demonstrations, illustrations, slides, records, exhibitions, and musical performances.

Music 161. Literature of Music I. One hour.

A general course designed to promote intelligent listening and to provide a basic background of the significant literature of music. Required of music majors.

Music 162. Literature of Music II. One hour.

A continuation of Music 161. Required of music majors.

Music 361. History of Music I. Three hours.

Prerequisite: Music 100 or 231.

Designed to give students a basis of evaluation of the world's great music. Brief outline of early music history including Greek and Roman civilizations, early church music, and the art of the Netherlands. Special emphasis on Handel, Bach, Haydn, and Mozart. Fall semester. Three class periods plus one hour of supervised listening per week.

Music 362. History of Music II. Three hours.

Prerequisite: Music 361 or consent of the instructor.

Nineteenth century music, Beethoven, the Romantic School, opera, the Impressionists, nationalistic tendencies, and contemporary composers. Spring semester. Three class periods plus one hour of supervised listening per week.

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 590. Studies in the Literature of Music. Two hours.

Detailed analysis of the music of individual composers, musical styles and periods.

Music 592. School Choral 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.

SCIENCE AND MATHEMATICS

Miss Cheatham
Mrs. Cooper
Mr. Fair

Miss Heaslip
Mr. Jackson
Mr. Lake

Mr. Overstreet
Mr. Owsley
Mr. Phillips

SCIENCE FOR GENERAL EDUCATION

(The first four courses listed in this division are recommended for non-science majors in meeting the minimum requirements for graduation.)

Science 101. Introduction to Biological Science. Three hours.

Protoplasm and cellular structure of plants and animals, morphology and physiology of higher plants and of vertebrate animals. Two lecture-discussion periods and two laboratory periods per week.

Science 102. Introduction to Biological Science. Three hours.
Prerequisite: Science 101.

Cell division, genetics, embryology, ecology, evolution, survey of the plant and animal kingdoms. Two lecture-discussion periods and two laboratory periods per week.

Science 103. Introduction to Physical Science. Three hours.

Simple machines, energy, force and motion, atomic and molecular structure, heat, light, sound, weather, electrostatics, current, radiation, transmutation, atomic energy. Three lecture-demonstration periods per week.

Science 104. Introduction to Physical Science. Three hours.

The fundamental chemical processes, water, ionization, nitrogen, the halogens, the sulfur family, the common metals, carbon and organic chemistry, basic geological processes, gradational agents, diastrophism, the earth's systems. Three lecture-demonstration periods per week.

Science 380G. History and Philosophy of Science. Three hours.
Open only to junior, senior, and graduate students.

The foundations and development of the natural and physical sciences and the attitudes that have been prevalent during the various eras and in different cultures from early times to the present. Three lecture-discussion periods per week.

Science 390G. Science for the Elementary Teacher. Three hours.

Prerequisite: Six hours of science credit. (Twelve hours for graduate credit)

Elementary science experiences suitable for the enrichment of the elementary school program; emphasis on the discovery and use of apparatus and materials in the home-school-community environment.

BIOLOGY

OBJECTIVES:

1. To afford students an opportunity to gain a knowledge of the life sciences as a part of their general culture.
2. To prepare teachers of biology for the elementary and secondary schools.

3. To furnish a background for the study of certain professional fields such as agriculture, forestry, home economics, medicine, dentistry, nursing, medical technology, veterinary medicine, and advanced study in biology.

REQUIREMENTS:

Sem. Hrs.

For an Area of Concentration in Science (Emphasis on Biology):

Science 101	3
Biology 210, 215, 471, and seven hours elective in advanced biology	16
Chemistry 111, 112, and four hours of advanced chemistry	12
Physics 131, 132, and four hours elective in advanced physics	12
Geology 100	3
Education 100, 210, 300, and 477	19
English 101, 102, 201, and 202	12
Freshman Orientation	1
Physical Education 104, 285, and two hours in activity courses	6
Core Curriculum	
Mathematics 151, 152, and 132 or 141	7
Social Science, including History 400	12
Third field	8
Advanced elective	17
Minimum for degree	128

For a Major:

Science 101	3
Biology 206, 210, 215, 304, 317, 337 or 338, 332 or 413, and 471	24
Minimum for a Major	27

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
Mathematics 151, 152, and 132 or 141	7

For a Minor:

Science 101	3
Biology 210 and 215	8
Elective in advanced biology approved by the department	7

Minimum for a Minor 18

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 in meeting all requirements.

Provisional High School Certificate with an Area in Science

(Emphasis on Biology)

FRESHMAN YEAR

First Semester		Second Semester	
Eng.	101—Writing and Speaking 3	Eng.	102—Writing and Speaking 3
PE	100a—Orientation in Phys. Ed. $\frac{1}{2}$	PE	100b—Orientation in Phys. Ed. $\frac{1}{2}$
	Freshman Orientation 1	Ed.	100—Orientation in Education 1
Sci.	101—Intro. to Biological Sci. 3	Math.	132—General Mathematics 3
Hist.	131—History of Civilization 3	or	
Math.	151—College Algebra 2	Math.	141—Plane Trigonometry 3
Chem.	111—General Chemistry 4	Hist.	132—History of Civilization 3
		Math.	152—College Algebra 2
		Chem.	112—General Chemistry 4
<hr/>		<hr/>	
16 $\frac{1}{2}$		16 $\frac{1}{2}$	

SOPHOMORE YEAR

First Semester		Second Semester	
Eng.	201—Intro. to Literature 3	Eng.	202—Intro. to Literature 3
PE	—Activity course $\frac{1}{2}$	PE	—Activity course $\frac{1}{2}$
Biol.	210—General Zoology 4	Biol.	215—General Botany 4
	or	or	
Biol.	215—General Botany 4	Biol.	210—General Zoology 4
Phys.	131—Elementary Physics 4	Phys.	132—Elementary Physics 4
Geol.	100—General Geology 3	Ed.	210—Human Grow. and Develop. I. 3
PE	104—Personal Hygiene 2	P. E.	285—Community Recreation 2
<hr/>		<hr/>	
16 $\frac{1}{2}$		16 $\frac{1}{2}$	

JUNIOR YEAR

First Semester		Second Semester	
Biol.	Advanced elective 3	Ed.	300—Intro. to Student Teaching 0
Chem.	Elective 4	Biol.	—Advanced elective 4
	Social Science elective 3	Phys.	—Elective 3
	Core Curriculum 3		Core Curriculum 3
	Advanced elective 3		Elective 6
<hr/>		<hr/>	
16		16	

SENIOR YEAR

First Semester		Second Semester	
Hist.	400—American Foundations 3	Ed.	477—Professional Semester 15
Biol.	471—Seminar 1		
	Core Curriculum 2		
	Advanced elective 9		
<hr/>		<hr/>	
15			

Pre-Medical and Pre-Dental

FRESHMAN YEAR

First Semester		Second Semester	
Eng.	101—Writing and Speaking 3	Eng.	102—Writing and Speaking 3
PE	100a—Orientation in Phys. Ed. $\frac{1}{2}$	PE	100b—Orientation in Phys. Ed. $\frac{1}{2}$
	Freshman Orientation 1	Hist.	132—History of Civilization 3
Hist.	131—History of Civilization 3	Math.	152—College Algebra 2
Math.	151—College Algebra 2	Math.	132—General Mathematics 3
Chem.	111—General Chemistry 4	or	
PE	104—Personal Hygiene 2	Math.	141—Plane Trigonometry 3
		Chem.	112—General Chemistry 4
		Biol.	206—Biological Etymology 1
<hr/>		<hr/>	
15 $\frac{1}{2}$		16 $\frac{1}{2}$	

SOPHOMORE YEAR

First Semester				Second Semester			
Eng.	201—Intro. to Literature	3		Eng.	201—Intro. to Literature	3	
PE	—Activity course	$\frac{1}{2}$		PE	—Activity course	$\frac{1}{2}$	
Sci.	101—Intro. to Biological Sci.	3		Biol.	210—General Zoology	4	
Soc.	201—Introductory Sociology	3		Ed.	153—General Psychology	3	
Phys.	131—Elementary Physics	4		Phys.	132—Elementary Physics	4	
	Foreign language	3			Foreign language	3	
<hr/>				<hr/>			
16 $\frac{1}{2}$				17 $\frac{1}{2}$			

JUNIOR YEAR

First Semester				Second Semester			
Biol.	337—Comp. Anatomy	4		Biol.	338—Vertebrate Embryology	4	
Chem.	222—Qualitative Analysis	4		Chem.	223—Quantitative Analysis	4	
Ec.	201—Principles of Economics	3		Hist.	400—American Foundations	3	
	Foreign language	3			Foreign language	3	
PE	285—Community Recreation	2			Elective	2	
<hr/>				<hr/>			
16				16			

The above program includes the requirements for graduation so that if a student follows this program and enters medical college at the end of his junior year he may, after successfully completing his first year at medical college, transfer his credits back to Morehead and receive his bachelor's degree.

The requirements for entrance to most medical and dental schools are highly similar, varying in minor details, but most schools give preference to applicants who have taken a broad program and completed four years of work.

The program of studies for the fourth year should be determined by the special needs of the student and requirements of the particular medical or dental school he expects to enter.

Pre-Veterinary Medicine

The State of Kentucky is a participating member in the Southern Regional Plan for training veterinarians, and arrangements have been made for the Alabama Polytechnic Institute at Auburn, Alabama, to accept ten students in veterinary medicine each year. Selection of these students is made by a state committee, and to be considered for appointment the student must have attained a point standing of 2.25 (C plus) in a two-year program of pre-veterinary training. Students receiving these appointments are admitted to Alabama Polytechnic Institute on the same basis as residents of Alabama.

Students wishing to be considered for these appointments should enroll for the following programs. If admission to the program sponsored by the Southern Regional Education Board is not secured at the end of two years, the credits earned may be applied on a degree at Morehead.

FRESHMAN YEAR

First Semester				Second Semester			
Eng.	101—Writing and Speaking	3		Eng.	102—Writing and Speaking	3	
PE	100a—Orientation in			PE	100b—Orientation in		
	Phys. Ed.	$\frac{1}{2}$			Phys. Ed.	$\frac{1}{2}$	
	Freshman Orientation	1		Math.	141—Plane Trigonometry	3	
Math.	151—College Algebra	2		Math.	152—College Algebra	2	
Chem.	111—General Chemistry	4		Chem.	112—General Chemistry	4	
Sci.	101—Intro. to Biological Sci.	3		Biol.	210—General Zoology	4	
Ag.	133—Farm Livestock						
	Production	3					
<hr/>				<hr/>			
16 $\frac{1}{2}$				16 $\frac{1}{2}$			

Pre-Forestry

Arrangements made through the Southern Regional Education Board provide for students who wish to prepare as professional foresters to do the first two years of their work at Morehead and complete their training in two years and one summer at North Carolina State College in Raleigh.

FRESHMAN YEAR

First Semester		Second Semester	
Eng.	101—Writing and Speaking 3	Eng.	102—Writing and Speaking 3
PE	100a—Orientation in Phys. Ed. 1½	PE	100b—Orientation in Phys. Ed. 1½
	Freshman Orientation 1	Math.	152—College Algebra 2
Math.	151—College Algebra 2	Math.	271—Analytic Geometry 3
Math.	141—Plane Trigonometry 3	Chem.	112—General Chemistry 4
Chem.	111—General Chemistry 4	Hist.	132—History of Civilization 3
Hist.	131—History of Civilization 3	IA	103—Elem. Mechanical Drawing 3
Sci.	101—Intro. to Biological Sci. 3		
<hr/>		<hr/>	
19½		18½	

SOPHOMORE YEAR

First Semester		Second Semester	
Eng.	201—Intro. to Literature 3	Eng.	202—Intro. to Literature 3
PE	—Activity course 1½	PE	—Activity course 1½
Biol.	215—General Botany 4	Biol.	210—General Zoology 4
Phys.	131—Elementary Physics 4	Chem.	225—Organic Chemistry 4
Econ.	201—Principles of Economics 3		Social Science elective 3
Ag.	111—Soils 4	Biol.	316—Dendrology 3
		Math.	111—Slide Rule 1
<hr/>		<hr/>	
18½		18½	

It is suggested that students enrolling for this program may do well to count on using the summer term between the first and second years to complete a portion of the program.

DESCRIPTION OF COURSES**Biology 206. Biological Etymology. One hour.**

Derivation of biological terms, particularly from Greek and Latin. Especially recommended for biology major and pre-medical and pre-dental students. One lecture-discussion period per week.

Biology 210. General Zoology. Four hours.

Prerequisite: Science 101.

Introduction to classes and phyla of vertebrate and invertebrate animals; structure, function, development and life history, adaptations, and heredity of animal types. Two lecture-discussion and two two-hour laboratory periods per week.

Biology 215. General Botany. Four hours.

Prerequisite: Science 101.

Structure 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. Three hours.

Formerly Biology 310.

The cultivation, observation, classification, morphology and physiology of micro-organisms; emphasis upon their relation to food and water sanitation and to disease. One hour lecture-discussion and four hours of laboratory per week.

Biology 232. Anatomy and Physiology. Four hours.

Formerly Biology 306.

Prerequisite: Science 101.

The anatomy and physiology of the major systems of the human body. Three lecture-discussion periods and two laboratory hours per week.

Biology 304G. Genetics. Three hours.

Prerequisite: Biology 210 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, evolution.

Biology 313. Economic Botany. Three hours.

Prerequisite: Biology 215.

Wood products, plant fibers, latex products, pectins, gums, resins, tannins, dyes, essential oils, medicinals, insecticides, tobacco, oils, fats, waxes, foods and beverage plants. Three lecture-discussion-demonstration hours per week.

Biology 316. Dendrology. Three hours.

Types and arrangement of flowers, buds, leaves, and leaf scars; classification of trees and shrubs; structure of wood and its economic importance, forest ecology. One lecture-discussion and four laboratory hours per week.

Biology 317. Bacteriology. Four hours.

Methods of identification and classification of bacteria; morphology, distribution of microorganisms; cultivation, observation, methods of examination, and physiology of microorganisms; fermentation and decay; health. Two lecture-discussion and four laboratory hours per week.

Biology 318. Local Flora. Three hours.

Types of flowers; structure and arrangement of flower parts; construction of keys; laws of nomenclature, classes, orders, and families of flowering plants. One lecture-discussion and four laboratory hours per week.

Biology 332. Human Physiology. Three hours.

Prerequisite: Biology 336.

Protoplasmic organization; structure; circulation and function of blood; respiration; excretion; digestion; metabolism and nutrition; endocrine system; nervous system; special senses; reproduction. Two lecture-discussion periods and two laboratory hours per week.

Biology 333. Ornithology. Three hours.

Classification and identification of birds; life histories; feeding habits; nesting habits; theories of migration; economic importance. One lecture-discussion and four laboratory hours per week.

Biology 334G. Entomology. Three hours.

Prerequisite: Biology 210.

General structure of insects, life histories, common orders, and families, insects in relation to man. Two lecture-discussion and two laboratory hours per week.

Biology 336. Human Anatomy. Three hours.

Prerequisite: Science 101.

Study of the organs and systems of the human body. Three lecture-discussion hours per week.

Biology 337G. Comparative Anatomy. Four hours.

Prerequisite: Biology 210.

Comparative studies of the various organs and systems of vertebrate animals with particular laboratory emphasis on the dogfish shark, necturus and cat. Two lecture-discussion and four laboratory hours per week.

Biology 338G. Vertebrate Embryology. Four hours.

Prerequisite: Biology 210.

Gamete formation, fertilization, cleavage, gastrulation, development of the vertebrate systems, formation of the extra-embryonic membranes, experimental embryology. Two lecture-discussion and four laboratory hours per week.

Biology 413G. Plant Physiology. Three hours.

Prerequisite: Biology 215 and Chemistry 111-112.

Topics: Osmosis, plasmolysis, photosynthesis, respiration, transpiration, fertilizers, soil elements and their uses, atmospheric elements and their functions, dormancy. One lecture-discussion and four laboratory hours per week.

Biology 420G. Histology. Four hours.

Prerequisite: Biology 210.

Characteristics of tissues and organs of vertebrates. Two lecture-discussion and four laboratory hours per week.

Biology 433G. Field Vertebrate Zoology. Three hours.

Prerequisite: Biology 210.

Methods of classifying animals, laws of nomenclature, use of keys in identification, habitats, and economic importance of the vertebrates of eastern Kentucky. One lecture-discussion and four laboratory hours per week.

Biology 461G. Ecology. Four hours.

Prerequisites: Biology 210 and 215.

Effects of the chemical, physical and biotic factors of the environment on living organisms; plant and animal populations; competition and interdependence of biotic forms. Two lecture-discussion and four laboratory hours per week. Numerous field trips are required.

Biology 471. Seminar. One hour per semester.

Prerequisites: Eighteen hours in biology and at least a junior standing. Selected topics of current importance in biological research. One lecture-discussion period per week.

Biology 474G. Biological Techniques. Two hours.

Prerequisites: Science 101, Biology 210 and 215.

Collecting, preserving, and caring for biological materials; rearing and culturing a variety of animals and plants used under laboratory and experimental conditions; materials and apparatus needed and the construction and maintenance of equipment in the biology laboratory; basic principles and designs used in the experimental approach to the study of biology. One lecture-discussion and two laboratory hours per week.

Biology 476G. Special Problems. One to three hours.

Prerequisites: At least 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. The topic will be selected at the time of registration. The time will vary with the problem.

Biology 500. Research Problems in Biology. One to three hours.

Prerequisite: Open only to qualified graduate students.

The student is required to carry on individual research in biology. The problem to be investigated will be selected after enrollment.

Biology 501. Biological Concepts. Three hours.

Selected concepts from various biological sciences will be discussed with the particular aim of introducing modern thinking on older concepts and the presentation of concepts that have arisen through recent experimentation and discovery. Three lecture-discussion periods per week.

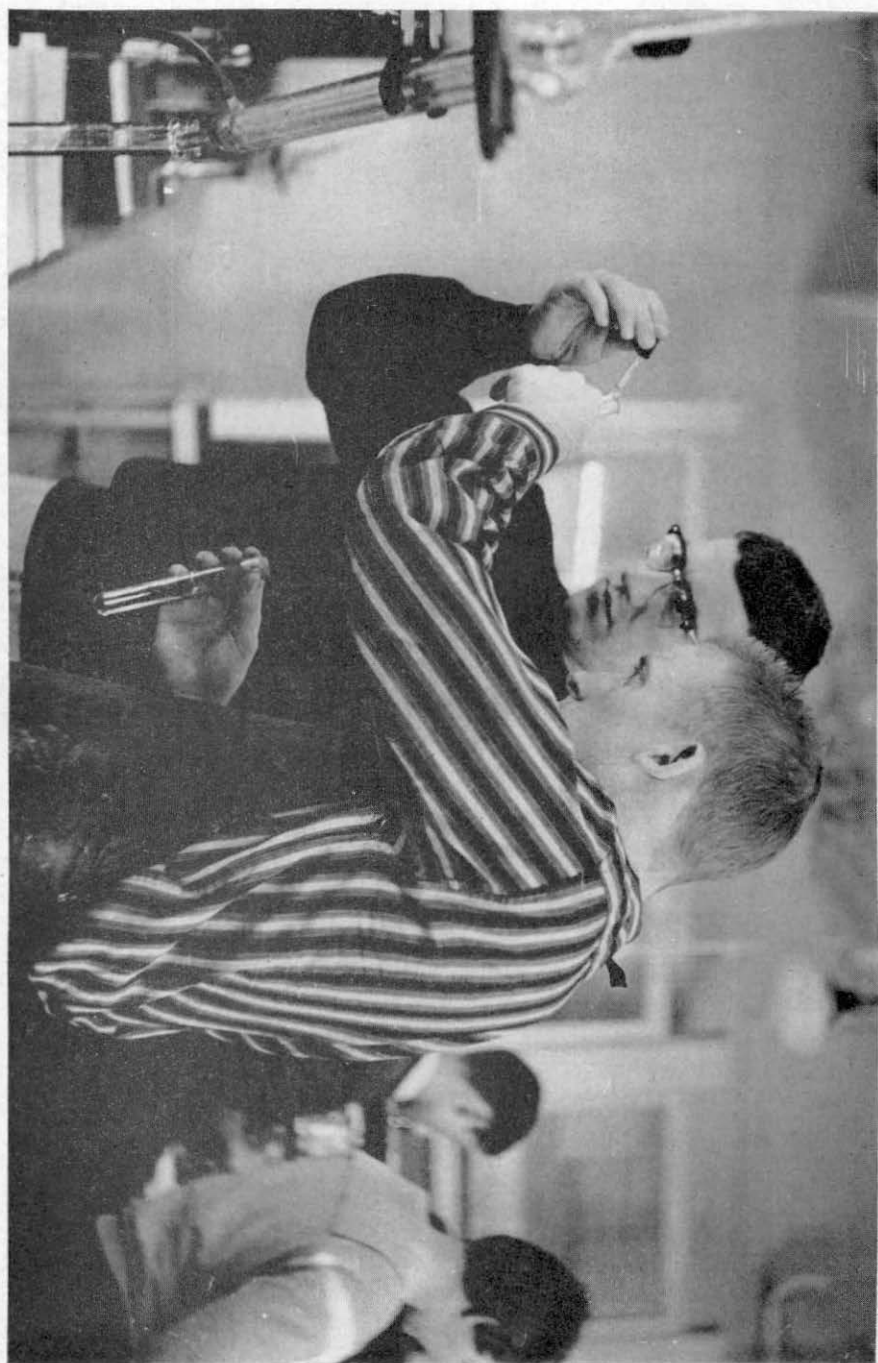
Biology 505. Biology of the Invertebrates. Three hours.

All the invertebrate phyla will be studied as to their evolution, taxonomy, morphology, physiology, and ecology. Emphasis will be placed upon the local representatives exclusive of the insects. One lecture-discussion and four laboratory periods per week.

CHEMISTRY

OBJECTIVES:

1. To contribute to the general cultural background of students.
2. To prepare teachers of chemistry.
3. To provide the basic courses for students in agriculture, home economics and other fields in which the fundamentals of chemistry are needed.



4. To meet the needs of students desiring to enter such professional fields as medicine, dentistry, engineering, and chemistry.

REQUIREMENTS:

For an Area of Concentration in Science (Emphasis on Chemistry):

Science 101	3
Chemistry 111, 112, and ten additional hours in chemistry	18
Biology 210, 215, and three hours elective in advanced biology	11
Physics 131, 132, and four hours in advanced physics	12
Geology 100	3
Freshman Orientation	1
English 101, 102, 201, 202	12
Education 100, 210, 300 and 477	19
Physical Education 104, 285, and two hours in activity courses	6
Core curriculum	
Mathematics 141, 151, 271, and 361.....	14
Social Science including History 400.....	12
Third field	6
Elective	11
Minimum for the degree	128

For a Major:

- A. For students who wish to qualify as teachers of chemistry in the secondary school but who do not expect to do graduate work in the field:
 Chemistry 111, 112, 222, 223, 331, 332, and 471..... 27
 Students who are majoring in chemistry are required to earn the following credits in physics and mathematics:
 Mathematics 141, 151, and 152 7 || Physics 131 and 132 | 8 |
| Those planning to do graduate work in chemistry should take additional courses in physics and mathematics. | |
| B. For students who expect to do graduate work in chemistry or to qualify as professional chemists: Chemistry 111, 112, 113, 114, 222, 223, 331, 332, 441, 442, and 471 | 38 |

For a Minor:

- Chemistry 111, 112, and ten hours in advanced chemistry 18

SUGGESTED PROGRAM

The following program has been devised to help students in selecting their courses and making their schedules. This suggested

schedule need not be followed specifically from semester to semester, but close adherence to it will aid in meeting the requirements for graduation.

Provisional High School Certificate with an Area in Science
(Emphasis on Chemistry)

FRESHMAN YEAR

First Semester			Second Semester		
Eng.	101—Writing and Speaking	3	Eng.	102—Writing and Speaking	3
PE	100a—Orientation in		PE	100b—Orientation in	
	Phys. Ed.	$\frac{1}{2}$		Phys. Ed.	$\frac{1}{2}$
	Freshman Orientation	1	Ed.	100—Orientation in	
Math.	151—College Algebra	2		Education	1
Chem.	111—General Chemistry	4	Math.	152—College Algebra	2
Hist.	131—History of Civilization	3	Chem.	112—General Chemistry	4
PE	104—Personal Hygiene	2	Hist.	132—History of Civilization	3
			Math.	141—Plane Trigonometry	3
<hr/>			<hr/>		
15½			16½		

SOPHOMORE YEAR

First Semester			Second Semester		
Eng.	201—Intro. to Literature	3	Eng.	202—Intro. to Literature	3
PE	—Activity course	$\frac{1}{2}$	PE	—Activity course	$\frac{1}{2}$
Ed.	210—Human Grow. and		Math.	271—Analytic Geometry	3
	Develop. I	3	Phys.	132—Elementary Physics	4
Phys.	131—Elementary Physics	4	Biol.	215—General Botany	4
Sci.	101—Intro. to Biological Sci.	3		Social Science Elective	3
Geol.	100—General Geology	3			
<hr/>			<hr/>		
16½			17½		

JUNIOR YEAR

First Semester			Second Semester		
Biol.	210—General Zoology	4	Ed.	300—Intro. to Student	
Chem.	331—Organic Chemistry	5		Teaching	0
Math.	361—Differential Calculus	4		Advanced Biology	3
	Core Curriculum	3	Chem.	332—Organic Chemistry	5
				Elective in Physics	3
			PE	285—Community Recreation	2
				Core Curriculum	3
<hr/>			<hr/>		
16			16		

SENIOR YEAR

First Semester			Second Semester		
Hist.	400—American Foundations	3	Ed.	477—Professional Semester	15
	Elective in Physics	2			
	Advanced Elective	10			
<hr/>			<hr/>		
15					

DESCRIPTION OF COURSES

Chemistry 111. General Chemistry. Four hours

The relation of chemistry to physics and derived sciences, atomic theory, non-metals, oxygen, hydrogen, etc., periodic arrangements of elements, introduction to atomic chemistry. Two lecture-discussion and four laboratory hours per week.

Chemistry 112. General Chemistry. Four hours.

Prerequisite: Chemistry 111, and Mathematics 141, desired.

Continuation of the study of non-metals, introduction of various fields of chemistry, colloids, organic, electrochemistry, metallurgy, etc., introduction to the mathematics of chemical equilibrium and ionization. The laboratory work will include an introduction to qualitative chemistry. Two lecture-discussion and four laboratory hours per week.

Chemistry 113. Problems in General Chemistry. One hour.

This course is to be taken concurrently with Chemistry 111 by chemistry majors and by others who need additional laboratory work to meet their requirements. Problems and elementary chemical analysis of anions. Two laboratory hours per week.

Chemistry 114. Problems in General Chemistry. One hour.

This course is to be taken concurrently with Chemistry 112 by chemistry majors and by others who need additional laboratory work to meet their requirements. A continuation of Chemistry 113. Two laboratory hours per week.

Chemistry 222. Qualitative Analysis. Four hours.

Prerequisites: Chemistry 112, Mathematics 151, and ability to use a slide rule.

Principles and practices of anion and cation analysis. One lecture-discussion and six laboratory hours per week.

Chemistry 223. Quantitative Analysis. Four hours.

Prerequisite: Chemistry 222 or permission of the instructor.

Principles and practices of volumetric analysis including electro-metric titrations. One lecture-discussion and six laboratory hours per week.

Chemistry 225. Organic Chemistry. Four hours. (Credit for this course will not be accepted on a major in chemistry.)

Prerequisite: Chemistry 112.

A brief course in organic chemistry to meet the requirements of students in agriculture, home economics, veterinary medicine, pre-dentistry, and pre-medicine, giving these students a working command of the language of organic chemistry, hydrocarbons, alcohols, ethers, carbohydrates, amines, drugs, etc. Two lecture-discussion and four laboratory hours per week.

Chemistry 331. Organic Chemistry. Five hours. (For chemistry majors and pre-medical students with a chemistry major.)

Prerequisites: Chemistry 222 and 223.

Aliphatic compounds, alcohols, ethers, aldehydes, ketones, chain hydrocarbons, carbohydrates, fats, proteins. Three lecture-discussion and four laboratory hours per week.

Chemistry 332. Organic Chemistry. Five hours.

Prerequisite: Chemistry 331.

Aromatic compounds, naphthenes, vitamins, dyes, biochemistry. Three lecture-discussion and four laboratory hours per week.

Chemistry 441G. Physical Chemistry. Four hours.

Prerequisites: Chemistry 223, 332, Mathematics 141, 152, and credit or registration for 361; Physics 132.

Laws governing gases, liquids and solids, relation between physical properties and molecular constitution, laws of thermodynamics, properties of solutions, colloids, thermo-chemistry, and

equilibrium and its varieties. Two lecture-discussion and four laboratory hours per week.

Chemistry 442G. Physical Chemistry. Four hours.

Prerequisites: Chemistry 441, credit or registration for Mathematics 362.

Chemical kinetics, electrical studies, quantum theory and photochemistry, nuclear chemistry. Two lecture-discussion and four laboratory hours per week.

Chemistry 451G. Physiological Chemistry. Three hours.

Prerequisite: Chemistry 332.

Qualitative and quantitative analysis of food, production of digestion enzymes, blood and urine constituents.

Chemistry 471. Seminar. One hour each semester.

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. This course is required of all chemistry majors and minors during their senior year. One hour per week.

Chemistry 476G. Special Problems. One to three hours.

Prerequisite: At least twenty hours in chemistry.

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. The topic will be selected at the time of registration. The time will vary with the problem.

Chemistry 576. Special Problems. One to three hours.

Open to graduate students who have twenty-eight hours of credit in chemistry. The problem and credit hours will be agreed upon at the time of registration.

GEOLOGY

Geology 100. General Geology. Three hours.

Natural forces acting upon the earth's crust: weather, stream, ice, wind and wave action; vulcanism, earthquakes, mountainmaking; land forms and minerals. Two lecture-discussion periods and one two-hour laboratory or field trip per week.

Geology 101. Historical Geology. Three hours.

Prerequisite: Geology 100.

A study of fossils, rocks, minerals and other economic resources occurring in various periods in the geologic history of the earth. Two lecture-discussion periods and one two-hour laboratory or field trip per week.

MATHEMATICS

OBJECTIVES:

1. To meet the needs of students who expect to enter the fields of engineering, physics, chemistry and other professions which require the constant use of the various branches of mathematics.
2. To prepare competent teachers of mathematics for the secondary school.
3. To contribute to the general cultural background of students.

REQUIREMENTS:

<i>For a Major:</i>	Sem. Hrs.
Mathematics 141, 151, 152, 271, 361, and 362.....	18
Elective in mathematics courses above 300 as approved by the department	9
Total for a major	27

Note: Students who expect to do graduate work in mathematics should take at least 12 hours in the 300 and 400 courses.

<i>For a Minor:</i>	
Mathematics 141, 151, 152, 271, and 361.....	14
Other courses in mathematics prescribed by the department	6
Total for a minor	20

DESCRIPTION OF COURSES

Mathematics 101. (Also Commerce 101). **Business Arithmetic. Three hours.**

(Credit in this course will not be accepted on the mathematics requirements for a degree or for a major or minor in mathematics.)

Fundamental processes; common fractions; decimal fractions; pay rolls; aliquot parts; percentage; interest; trade and cash discounts; profit and loss; market price; commission and brokerage; partial payments; installment buying; graphs; depreciation; insurance; stocks and bonds; taxes.

Mathematics 102. Solid Geometry. Three hours.

(Credit in this course will not be accepted on the requirements for a major or minor in mathematics.)

The fundamental propositions, problems and exercises of solid geometry. This course is designed for pre-engineering students and those who plan to teach mathematics who have not had solid geometry in high school.

Mathematics 111. Slide Rule. One hour.

(Credit in this course will not be accepted on the mathematics requirements for a degree or for a major or minor in mathematics.)

Prerequisite: Permission of the instructor.

Multiplication; division; powers and roots; trigonometric functions; ratio and proportion; solution of triangles; applications to physics and chemistry.

Mathematics 131. General Mathematics. Three hours.

(Credit in this course will not be accepted on major or minor requirements in mathematics.)

History of mathematics; role of mathematics; important mathematical concepts; number scales; elementary logic; common and decimal fractions; percentage; life insurance; interest; bonds; ratio and proportion.

Mathematics 132. General Mathematics. Three hours.

(Credit in this course will not be accepted on major or minor requirements in mathematics.)

Factoring; special products; graphs; linear and quadratic equations; logarithms; trigonometric functions; right and oblique triangles; introduction to calculus, probability and statistics.

Mathematics 141. Plane Trigonometry. Three hours.

Prerequisites: One unit each of high school algebra and plane geometry. This course may be taken before, after, or simultaneously with College Algebra.

Trigonometric functions; right triangles; law of sines; law of cosines; trigonometric equations and identities; radian measure; inverse functions; logarithms; and oblique triangles.

Mathematics 142. Spherical Trigonometry. Two hours.

Prerequisite: Mathematics 141.

Napier's rules; laws of quadrants for right spherical triangles; polar triangles; quadrantal triangles; oblique spherical triangles; applications to problems in navigation; and spherical coordinates.

Mathematics 151. College Algebra. Two hours.

Prerequisites: One unit each of high school algebra and plane geometry. This course may be taken before, after, or simultaneously with Plane Trigonometry.

Factoring; exponents; roots; fractions; binomial theorem; functional notations; graphs; linear equations; fractional equations; systems of linear equations; ratio and proportion; and logarithms.

Mathematics 252. Mathematics of Finance. Three hours.

Prerequisite: Mathematics 151 and 152.

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

Mathematics 271. Analytic Geometry. Three hours.

Prerequisites: Mathematics 141 and 152.

Cartesian coordinates; equations of curves; derivative of a func-

tion; differentiation of algebraic functions; the circle, parabola, ellipse and hyperbola; polar coordinates; parametric equations; solid analytic geometry.

Mathematics 341G. Theory of Equations. Three hours.

Prerequisite: Mathematics 271.

Simultaneous linear equations; binomial equations; properties of polynomials; theorems on roots; transformations; solutions of cubic and quartic equations; bounds for roots; separation of roots; solutions of numerical equations; determinants.

Mathematics 353G. Statistics. Three hours.

Prerequisite: Permission of the instructor.

Tabulation and graphical presentation of statistical data; interpretations of statistical results; averages; dispersions; index numbers; simple correlations.

Mathematics 361. Differential Calculus. Four hours.

Rates and differentials; indefinite integrals; definite integrals; applications of the fundamental theorem; extreme values; curve-tracing; exponential, logarithmic and trigonometric functions; indeterminate forms.

Mathematics 362. Integral Calculus. Four hours.

Integration-standard forms, curvature; series double integrals; triple integrals; differential equations.

Mathematics 371G. History and Teaching of Mathematics. Three hours.

Fundamental operations and principles of general mathematics will be surveyed and their historical background considered. Emphasis will be upon those basic principles which should be helpful to the teacher of chemistry, physics, and biology. Three lecture-discussion periods per week.

Mathematics 372G. College Geometry. Three hours.

Prerequisite: Mathematics 271.

Geometric loci, similar and homothetic figures, Ceva's theorem, Manelaus' theorem, coaxial circles, inversion, poles and polars, cross ratio, involution.

Mathematics 380G. Solid Analytic Geometry. Three hours.

Prerequisite: Mathematics 271.

Coordinates and cosines; planes and lines; determinants and matrices; surfaces; general equation of the second degree coordinate and point transformations; matrix algebra.

Mathematics 462G. Differential Equations. Three hours.

Prerequisite: Mathematics 362.

Methods for the solution of differential equations of first order; applications to physical problems; singular solutions; linear equations; integration in series, and total differential equations.

Mathematics 471G. Synthetic Projective Geometry. Three hours.

Prerequisite: Mathematics 271.

Primitive forms; principle of duality; perspectivity; harmonic ranges and pencils; projectively related primitive forms; Paschal's theorem; Brianchon's theorem; poles; diameters; ruled surfaces; involution.

Mathematics 476G. Special Problems. One to three hours.

Prerequisite: At least twenty hours in mathematics.

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. The topic will be selected at the time of registration. The time will vary with the problem.

Mathematics 483G. (also Physics 483G.) Theoretical Mechanics. Three hours.

Prerequisites: Physics 131 and a working knowledge of the calculus, or Physics 231.

The easier problems of statics and dynamics — vectors, equilibrium, frames of reference, virtual work, inertia, friction and elasticity.

Mathematics 484G. (Also Physics 484G.) Theoretical Mechanics. Three hours.

A continuation of Mathematics 483G dealing with the more difficult problems of statics and dynamics and introducing such general procedures as generalized coordinates and Lagrange's equations.

Mathematics 485G. Vector Analysis. Three hours.

Prerequisite: Mathematics 362.

Addition, subtraction and multiplication of vectors; differentiation and integration of vectors; kinematics and dynamics of a particle; kinematics and dynamics of a rigid body.

Mathematics 490G. Theory of Numbers. Three hours.

Divisibility; continued fractions; congruences; quadratic residues; diophantine equations.

PHYSICS**REQUIREMENTS:**

For an area of concentration in Science (Emphasis on Physics):

Sem. Hrs.

Physics 231, 232, and eight hours elective in advanced physics	18
Science 101	3
Biology 210, 215, and elective in advanced biology	11
Chemistry 111, 112, and 222	12
Geology 100	3
Freshman Orientation	1

English 101, 102,, 201 and 202	12
Education 100, 210, 300 and 477	19
Physical Education 104, 285, and two hours in activity courses	6
Core Curriculum	
Mathematics 141, 151, 152, 271, and 361	14
Social Science, including History 400	12
Third field	6
Elective	11
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Minimum for the degree	128

For a Major:

Physics 231, 232, 331, 332, and 483	19
Elective in physics as approved by the department.....	6
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Total for a major	25

Students who are majoring in physics are also required to earn credit in mathematics 462 and 485 and Chemistry 111 and 112.

Sem. Hrs.

For a Minor:

Physics 231 and 232	10
Elective in physics as approved by the department.....	8
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Total for a minor	18

Students who are minoring in physics are also required to earn credit in:

Mathematics 141, 151, 152, 271, and 361.....	14
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Provisional High School Certificate with an Area in Science
(Emphasis on Physics)

FRESHMAN YEAR

First Semester		Second Semester	
Eng. 101—Writing and Speaking	3	Eng. 102—Writing and Speaking	3
PE 100a—Orientation in		PE 100b—Orientation in	
Phys. Ed.	1/2	Phys. Ed.	1/2
Freshman Orientation	1	Ed. 100—Orientation in	
Math. 151—College Algebra	2	Education	1
Math. 141—Plane Trigonometry	3	Math. 152—College Algebra	2
Hist. 131—History of Civilization	3	Math. 271—Analytic Geometry	3
Chem. 111—General Chemistry	4	Hist. 132—History of Civilization	3
		Chem. 112—General Chemistry	4
<hr/>		<hr/>	
16 1/2		16 1/2	

SOPHOMORE YEAR

First Semester		Second Semester	
Eng. 201—Intro. to Literature	3	Eng. 202—Intro. to Literature	3
PE —Activity course	1/2	PE —Activity course	1/2
Math. 361—Differential Calculus	4	Ed. 210—Human Grow. and	
Phys. 231—General College		Develop. I	3
Physics	5	Phys. 232—General College	
Geol. 100—General Geology	3	Physics	5
PE 104—Personal Hygiene	2	Sci. 101—Intro. to Biological Sci.	3
		PE 285—Community Recreation	2
<hr/>		<hr/>	
17 1/2		16 1/2	

JUNIOR YEAR					
	First Semester			Second Semester	
Phys.	Advanced Elective	3	Educ. 300—Intro. to Student Teaching		0
Biol. 210—	General Zoology	4	Phys. Advanced Elective		3
	Core Curriculum	3	Biol. 215—General Botany		4
	Social Science	3	Chem. 223—Quantitative Analysis		4
	Elective	2	Core Curriculum		3
			Elective		2
		15			16
SENIOR YEAR					
	First Semester			Second Semester	
Hist. 400—	American Foundations	3	Ed. 477—Professional Semester		15
Biol.	Elective	3			
Phys.	Advanced Elective	3			
	Advanced Elective	6			
		15			

SUGGESTED TWO-YEAR PRE-ENGINEERING PROGRAM

FRESHMAN YEAR					
First Semester			Second Semester		
Eng.	101—Writing and Speaking	3	Eng.	102—Writing and Speaking	3
PE	100a—Orientation in Phys. Ed.	$\frac{1}{2}$	PE	100b—Orientation in Phys. Ed.	$\frac{1}{2}$
	Freshman Orientation	1		Math. 152—College Algebra	2
Math.	151—College Algebra	2	Math.	271—Analytic Geometry	3
Math.	141—Plane Trigonometry	3	Chem.	112—General Chemistry	4
Chem.	111—General Chemistry	4	IA	203—Adv. Mechanical Drawing	3
IA	103—Elem. Mechanical Drawing	3			
		<hr/>			<hr/>
		16 $\frac{1}{2}$			15 $\frac{1}{2}$
SOPHOMORE YEAR					
First Semester			Second Semester		
Eng.	201—Intro. to Literature	3	Eng.	202—Intro. to Literature	3
PE	—Activity course	$\frac{1}{2}$	PE	—Activity course	$\frac{1}{2}$
Math.	361—Differential Calculus	4	Math.	362—Integral Calculus	4
Phys.	231—General College Physics	5	Phys.	232—General College Physics	5
Sp.	280—Basic Speech	3	Ed.	153—General Psychology	3
		<hr/>	Math.	111—Slide Rule	1
		15 $\frac{1}{2}$			<hr/>
					16 $\frac{1}{2}$

DESCRIPTION OF COURSES

Physics 131. Elementary Physics. Four hours.

Prerequisites: High school algebra and plane geometry. Trigonometry credit or registration in Mathematics 141 is advised.

Mechanics and heat. Three hours per week devoted to classroom discussion of reading and problem assignments, and two hours per week devoted to laboratory measurements.

Physics 132. Elementary Physics. Four hours.

Continuation of Elementary Physics. Electricity and magnetism, sound and light.

Physics 231. General College Physics. Five hours.

Prerequisites: Mathematics 141, 151, 152, 271 and a working knowledge of differential and integral calculus or registration in Mathematics 361.

Mechanics and heat. Three hours per week devoted to classroom discussion of the reading and problem assignments, two hours

per week devoted to problem working, two hours per week devoted to laboratory measurements.

Physics 232. General College Physics. Five hours.

Continuation of General Physics. Electrostatics, electrodynamics, acoustics, optics, electromagnetic radiations.

Physics 311. Heat and Thermodynamics. Three hours.

Prerequisites: Physics 131 and a working knowledge of calculus, or Physics 231.

Two hours per week devoted to lecture and classroom discussion, and two hours per week devoted to measurement and problem working.

Fundamental principles of heat phenomena, laws of thermodynamics, equations of state for gases, changes of state, thermodynamic relations, and their applications.

Physics 312. Light and Physical Optics. Three hours.

Prerequisites: Physics 132 and a working knowledge of calculus, or Physics 232.

Two hours per week devoted to lectures and classroom discussion and two hours per week devoted to measurement and problem working.

Basic phenomena of geometrical and physical optics, including the study of wave motion, interference, refraction, diffraction, polarization and the theory of physical optics.

Physics 321. Sound and Acoustics. Two hours.

Prerequisites: Physics 132 or Physics 232.

A study of the basic theories in the field of sound and acoustics with special application to the theory of musical sounds.

Physics 331. Nuclear Physics. Three hours.

Prerequisites: Physics 131, Physics 132 and a working knowledge of calculus, or Physics 231 and Physics 232.

Atomic structure, Roentgen rays, radioactivity, isotopes and nuclear structure, nuclear radiations, nuclear reactions, nuclear fission, chain reaction, radioactive tracers, health physics.

Physics 332. Electricity and Magnetism. Three hours.

Prerequisites: Physics 132 and a working knowledge of calculus, or Physics 232.

Two hours per week devoted to lecture and classroom discussion and two hours per week devoted to measurement and problem working.

Electrostatics, magnetic and electrostatic fields, capacitance, dielectrics, electric images, measurement of current, potential, and resistance, electric machinery and meters, networks and transformers.

Physics 341G. Introduction to Atomic Physics. Three hours.

Prerequisites: Physics 131, Physics 132 and a working knowledge of calculus, or Physics 231 and Physics 232.

Two hours per week devoted to lecture and classroom discussion and two hours per week devoted to measurement and problem working.

Elementary charged particles, electromagnetic radiations, waves and particles, atomic spectra and electron distribution.

Physics 361G. Fundamentals of Electronics. Three hours.

Prerequisites: Physics 132 and a working knowledge of calculus, or Physics 232.

A study of the characteristics of vacuum tubes, rectifiers, amplifiers, oscillators, and gas filled tubes. Lectures, experiments, measurements, problems.

Physics 401G. Physical Manipulations. Two hours.

The course will emphasize the construction and manipulation of special pieces of apparatus which should arouse interest of pupils in general science, physics, and chemistry courses in high school. Simple instruments used in atomic and nuclear physics observations will be discussed and available for use of participants. Four hours of laboratory and demonstration per week.

Physics 471G. Special Problems in Physics. One to three hours.

Prerequisites: Permission from the head of the department.

The object is to provide opportunity for continued study for a single student or a group of students who have developed a special interest during previous work in the field of physics. Work may be in the nature of reading and reports, the working of problems in mathematical physics, laboratory measurements, construction of apparatus.

Physics 472. Seminar in Physics. One hour.

Required of all physics majors.

Physics 483G. (Also Mathematics 483). Theoretical Mechanics. Three hours.

Prerequisites: Physics 131 and a working knowledge of calculus, or Physics 231.

The easier problems of statics and dynamics; vectors, equilibrium, frames of reference, virtual work, inertia, friction, elasticity.

Physics 484G. (Also Mathematics 484). Theoretical Mechanics. Three hours.

A continuation of Physics 483, dealing with the more difficult problems of statics and dynamics and introducing such general procedures as generalized coordinate and Lagrange's equations.

Physics 501. Physical Concepts. Three hours.

Basic principles of physics will be re-examined in accordance with newer knowledge regarding them. Advances in atomic, molecular, and nuclear physics will be particularly considered.

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