

Fair
Registrar's Office

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



**GENERAL
CATALOG
1953-55**

BULLETIN
OF
Morehead State College
MOREHEAD, KENTUCKY

GENERAL CATALOG

1953-54

1954-55

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

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Table of Contents

	Page
College Calendar, 1953-54.....	3
College Calendar, 1954-55.....	4
Board of Regents.....	6
Administrative Staff.....	7
The Faculty.....	8
Committees	17
General Information.....	19
Instructions to Students.....	23
Information of Particular Interest to Freshmen.....	37
Auxiliary Agencies.....	40
Student Organizations.....	43
Degrees and Certificates.....	47
Departmental Offerings.....	56
Index	172

College Calendar, 1953-54

FIRST SEMESTER

September 15	Tuesday	Freshman orientation and registration (All freshmen are expected to report at the College Auditorium at 9:00 A.M.)
September 16	Wednesday	Registration of upperclass students.
September 17	Thursday	Classes begin.
September 18	Friday	Last day to register for full load.
September 23	Wednesday	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 Registrar.
November 5	Thursday	EKEA holiday begins at 12:00 M.
November 9	Monday	Class work resumed at 8:00 A.M.
November 23	Monday	Mid-term reports to the Registrar.
November 25	Wednesday	Thanksgiving holiday begins at 5:00 P.M.
November 30	Monday	Class work resumed at 8:00 A.M.
December 18	Friday	Christmas holiday begins at 5:00 P.M.
January 4	Monday	Class work resumed at 8:00 A.M.
January 26	Tuesday	Final examinations begin.
January 28	Thursday	First semester closes at 5:00 P.M.
January 29	Friday	Grades to the Registrar by 12:00 M.

SECOND SEMESTER

February 1	Monday	Registration of all students.
February 2	Tuesday	Classes begin.
February 3	Wednesday	Last day to register for full load.
February 9	Tuesday	Last day to register for credit.
March 8	Monday	Students who drop courses after this date will automatically receive marks of "E" in the courses dropped.
April 5	Monday	Mid-term reports to the Registrar.
April 14	Wednesday	Spring vacation begins at 5:00 P.M.

MOREHEAD STATE COLLEGE

April 19	Monday	Class work resumed at 8:00 A.M.
May 30	Sunday	Baccalaureate sermon.
June 1	Tuesday	Final examinations begin.
June 2	Wednesday	Commencement exercises.
June 3	Thursday	Second semester closes at 5:00 P.M.
June 4	Friday	Grades to the Registrar by 12:00 M.

SUMMER TERM—1954

June 14	Monday	Registration of all students.
June 15	Tuesday	Classes begin. Last day to register for full load.
June 17	Thursday	Last day to register for credit.
August 6	Friday	Summer term closes at 5:00 P.M.

College Calendar, 1954-55

FIRST SEMESTER

September 14	Tuesday	Freshman orientation and registration (All freshmen are expected to report at the College Auditorium at 9:00 A.M.)
September 15	Wednesday	Registration of upperclass students.
September 16	Thursday	Classes begin.
September 17	Friday	Last day to register for full load.
September 22	Wednesday	Last day to register for credit.
October 11	Monday	Students who drop courses after this date will automatically receive marks of "E" in the courses dropped.
October 18	Monday	Freshman grade reports to Registrar.
November 4	Thursday	EKEA holiday begins at 12:00 M.
November 8	Monday	Class work resumed at 8:00 A.M.
November 22	Monday	Mid-term reports to the Registrar.
November 24	Wednesday	Thanksgiving holiday begins at 5:00 P.M.
November 29	Monday	Class work resumed at 8:00 A.M.
December 17	Friday	Christmas holiday begins at 5:00 P.M.

January 3	Monday	Class work resumed at 8:00 A.M.
January 25	Tuesday	Final examinations begin.
January 27	Thursday	First semester closes at 5:00 P.M.
January 28	Friday	Grades to the Registrar by 12:00 M.

SECOND SEMESTER

January 31	Monday	Registration of all students.
February 1	Tuesday	Classes begin.
February 2	Wednesday	Last day to register for full load.
February 8	Tuesday	Last day to register for credit.
March 7	Monday	Students who drop courses after this date will automatically receive marks of "E" in the courses dropped.
April 4	Monday	Mid-term reports to the Registrar.
April 13	Wednesday	Spring vacation begins at 5:00 P.M.
April 18	Monday	Class work resumed at 8:00 A.M.
May 29	Sunday	Baccalaureate sermon.
May 31	Tuesday	Final examinations begin.
June 1	Wednesday	Commencement exercises.
June 2	Thursday	Second semester closes at 5:00 P.M.
June 3	Friday	Grades to the Registrar by 12:00 M.

SUMMER TERM—1955

June 13	Monday	Registration of all students.
June 14	Tuesday	Classes begin.
		Last day to register for full load.
June 16	Thursday	Last day to register for credit.
August 5	Friday	Summer term closes at 5:00 P.M.

Board of Regents

WENDELL P. BUTLER	Frankfort, Kentucky
State Superintendent of Public Instruction, ex officio chairman	
W. W. BALL	Maysville, Kentucky
M. K. EBLEN	Hazard, Kentucky
J. T. NORRIS	Ashland, Kentucky
E. R. PRICE	Wheelwright, Kentucky

OFFICERS OF THE BOARD

WENDELL P. BUTLER	Chairman
E. R. PRICE	Vice-Chairman
J. T. NORRIS	Secretary
W. W. BALL, Representative of the Board of Regents on the Council on Public Higher Education	

Administrative Staff

CHARLES R. SPAIN	President
WARREN C. LAPPIN	Dean
MARJORIE J. PALMQUIST	Dean of Students
NATHANIEL B. McMILLIAN	Director of Public Relations
WILLIAM M. CAUDILL	Director of Extension
MONROE WICKER	Director of Training School

BUSINESS OFFICE

HERBERT H. HOGAN	Business Manager
ROBERT W. STOKES	Assistant Business Manager
NORMA WALTON	Cashier
BARBARA HYDEN	Clerk
REVA HICKS	Machine Operator
W. H. RICE	Superintendent of Buildings and Grounds
JOHN COLLIS	Bookstore Manager
MARY LOUISE KOZEE	Cafeteria Director
KATE B. HILL	Fields Hall
OCTAVIA GRAVES	Allie Young Hall
J. T. MAYS	Men's Hall
HUBERT J. MCSHEA	Thompson Hall
STANLEY RADJUNAS	Veteran's Village

REGISTRAR'S OFFICE

LINUS A. FAIR	Registrar
HELEN PATRICK	Recorder

LIBRARY

IONE M. CHAPMAN	Librarian
MARGUERITE BISHOP	Assistant Librarian
NONA BESS WATSON	Assistant Librarian
CLARICA WILLIAMS	Assistant Librarian

SECRETARIES

ANNA B. CARTER	President's Office
DORIS BACH	Dean's Office
VIRGINIA CAUDILL	Business Office
ELIZABETH ROBERTS	Training School
PAULINE CANAFAX	Library
MARY JANE O'DELL	Public Relations Office

The Faculty

- CHARLES R. SPAIN, A.B., A.M., Ed.D. *President*
 A.B., Bethel College, 1936
 A.M., George Peabody College, 1937
 Ed.D., Teachers College,
 Columbia University, 1941
 Morehead State College since 1951
- MARY TUTTLE ANDERSON, B.E., A.M. *Instructor in*
 B.E., Normal University (Illinois), 1937 *Education, Super-*
 A.M., Teachers College, *vising Teacher*
 Columbia University, 1944 *Fourth Grade*
 Morehead State College since 1952
- ROSS C. ANDERSON, B.S., A.M. *Associate Professor*
 B.S., Eastern (Ky.) State College, 1933 *of Commerce,*
 A.M., University of Kentucky, 1938 *Head of*
 Morehead State College since 1938 *Department*
- CHARLES E. APEL, A.B., B.S., M.S. *Associate Professor*
 A.B., Wesley College, 1925 *of Commerce*
 B.S., University of North Dakota, 1925
 M.S., University of North Dakota, 1926
 Morehead State College since 1948
- R. RUSSELL AUKERMAN, B.S., A.M. *Assistant Professor*
 B.S., Miami University (Ohio), 1943 *of Music,*
 A.M., Columbia University, 1948 *Band Director*
 Morehead State College since 1950
- Henrietta Arent (see Prop)*
- GABRIEL C. BANKS, A.B., B.D., A.M. *Associate Professor*
 A.B., Transylvania College, 1917 *of English*
 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

MARIA P. BIZZONI, A.B., A.M. Associate Professor
 A.B., University of California, 1929 of Modern
 A.M., Vassar College, 1932 Languages
 Morehead State College since 1951

MAMIE BLAIR, A.B., A.M. Instructor in Educa-
 A.B., Morehead State College, 1934 tion, Supervising
 A.M., Teachers College, Teacher in
 Columbia University, 1949 Social Science
 Morehead State College since 1952

PATTI BOLIN, B.S., M.S. Associate Professor
 B.S., Western (Ky.) State College, 1935 of Home Eco-
 M.S., University of Kentucky, 1938 nomics, Head of
 Morehead State College, 1940-1946, Department
 since 1948

CATHERINE L. BRAUN, B.S. Instructor in
 B.S., George Peabody College, 1926 Geography
 Morehead State College since 1923

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

ca-1 Newsom *Asst Prof. sci & Math*
 BILLIE JO CAUDILL, B.S., M.S. Instructor in
 B.S., Murray State College, 1947 Biology
 M.S., University of Kentucky, 1951
 Morehead State College since 1951

WILLIAM M. CAUDILL, B.S., M.S. Director of
 B.S., George Peabody College, 1922 Extension
 M.S., University of Chicago, 1927
 Morehead State College since 1948

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

- NAOMI CLAYPOOL, A.B., A.M. Assistant Professor
 A.B., University of Kentucky, 1930 of Art, Head of
 A.M., Teachers College, Department
 Columbia University, 1932
 Morehead State College since 1925
- 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 Dramatics
 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. Instructor in
 A.B., Kentucky Wesleyan College, 1929 Education, 7
 A.M., Teachers College, Supervising
 Columbia University, 1932 Teacher in Social
 Morehead State College since 1930 Science
- SAM J. DENNEY, A.B., A.M. Instructor in
 A.B., University of Kentucky, 1928 Education,
 A.M., University of Kentucky, 1932 Supervising
 Morehead State College since 1936 Teacher in
 English
- *THELMA EVANS, A.B., A.M. Assistant Professor
 A.B., University of Kentucky, 1930 of Education,
 A.M., University of Kentucky, 1940 Supervising
 Morehead State College since 1943 Teacher First
 Grade
- WILHELM EXELBIRT, Ph.D. Professor of History
 Ph.D., University of Vienna, 1929
 Morehead State College since 1948
- LINUS A. FAIR, A.B., A.M. Associate Professor
 A.B., Arkansas State Teachers College, 1925 of Mathematics
 A.M., George Peabody College, 1930 and Physics,
 Morehead State College since 1932 Registrar

*Leave of absence, 1952-53.

- NEVILLE FINCEL, A.B., A.M. Assistant Professor
A.B., University of Kentucky, 1921 of Economics
A.M., University of Kentucky, 1932
Morehead State College since 1930
- NOLAN FOWLER, A.B., A.M. Associate Professor
A.B., Marshall College, 1939 of History
A.M., University of Kentucky, 1940
Morehead State College since 1943
- OCTAVIA GRAVES, A.B., A.M. Associate Professor
A.B., Morehead State College, 1938 of Education
A.M., George Peabody College, 1939
Morehead State College since 1946
- HELEN A. GREIM, B.Mus., M.M. Assistant Professor
B.Mus., Northwestern University, 1923 of Music
M.M., Northwestern University, 1932
Morehead State College since 1947
- HENRY CLAY HAGGAN, B.S., M.S. Professor of
B.S., University of Kentucky, 1918 Agriculture,
M.S., University of Kentucky, 1934 Head of
Morehead State College since 1923 Department
- KEITH HUFFMAN, A.B., A.M. Assistant Professor
A.B., Morehead State College, 1943 of Music, Orches-
A.M., University of Iowa, 1947 tra Director
Morehead State College since 1947
- Wilber Jamerson* *Inst PE*
ELLIS TUCK JOHNSON, A.B., A.M. Professor of Health
A.B., University of Kentucky, 1932 and Physical
A.M., University of Kentucky, 1937 Education,
Morehead State College since 1936 Head Coach
- MARIE ELIZABETH JOHNSON, B.Mus., M.M. Instructor in Music
B.Mus., Greensboro College, 1946
M.M., Cincinnati Conservatory, 1950
Morehead State College since 1951
- WARREN C. LAPPIN, A.B., A.M., Ed.D. Professor of
A.B., Transylvania College, 1920 Education, Dean
A.M., University of Chicago, 1929
Ed.D., Indiana University, 1941
Morehead State College since 1926

- 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. 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
- ROSS E. LOWE, B.S., A.M. Assistant Professor
 B.S., George Peabody College, 1948 of Commerce
 A.M., George Peabody College, 1951
 Morehead State College since 1951
- JESSE T. MAYS, A.B., A.M. Assistant Professor
 A.B., Union College, 1931 of Industrial Arts,
 A.M., George Peabody College, 1933 Head of
 Morehead State College since 1933 Department
- JAMES B. MCCONKEY, A.B., A.M. Associate Professor
 A.B., Western Reserve University, 1943 of English
 A.M., Western Reserve University, 1947
 Morehead State College since 1950
- NATHANIEL B. McMILLIAN, A.B., A.M., Ph.D. Professor of
 A.B., Berea College, 1933 Education,
 A.M., University of Kentucky, 1948 Director of Public
 Ph.D., University of Kentucky, 1951 Relations
 Morehead State College since 1952
- HUBERT J. MCSHEA, A.B., A.M., Ph.D. Professor of Educa-
 A.B., Catholic University, 1938 tion, Director of
 A.M., Catholic University, 1944 Testing Bureau
 Ph.D., Catholic University, 1945
 Morehead State College since 1947
- GUY S. MILES, A.B., A.M., Ph. D. Professor of
 A.B., Cornell University, 1928 English,
 A.M., Cornell University, 1929 Head of
 Ph.D., Vanderbilt University, 1940 Division of
 Morehead State College since 1948 Languages and
 Literature

- JUANITA MINISH, A.B., A.M. Instructor in
 A.B., Transylvania College, 1919 Education,
 A.M., George Peabody College, 1930 Supervising
 Morehead State College since 1930 Teacher of
 Foreign Languages
- AMY IRENE MOORE, B.S., A.M. Instructor in
 B.S., Kansas State Teachers College, 1917 Education,
 A.M., University of Chicago, 1925 Supervising
 Morehead State College since 1932 Teacher of
 Mathematics
Carl Newsom (see Billie Jo Coudill)
- HAZEL NOLLAU, B.S., M.S. Assistant Professor
 B.S., University of Kentucky, 1934 of Education,
 M.S., University of Kentucky, 1935 Supervising
 Morehead State College since 1943 Teacher of
 Science
- PAUL C. OVERSTREET, A.B., M.S. Assistant 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
 A.M., Western State College, 1935
 Ph.D., Ohio State University, 1945
 Morehead State College since 1950
- Roger Wilson*
 MARJORIE J. PALMQUIST, B.S., A.M., Ph.D. Professor of
 B.S., Iowa State Teachers College, 1935 Education,
 A.M., University of Iowa, 1940 Dean of Students
 Ph.D., Ohio State University, 1949
 Morehead State College since 1951
- OLGA PECHENIUK, B.S., M.S. Instructor in
 B.S., University of Manitoba, 1950 Home Economics
 M.S., Iowa State College, 1952
 Morehead State College since 1952
- 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

MOREHEAD STATE COLLEGE

GOMER J. POUND, B. Mus. *Instructor in Music*
 B. Mus., Michigan State College, 1952
 Morehead State College since 1952

Henrietta Aveni

Inst. P.E.

DOROTHY ANN PROP, B.S., A.M. *Assistant Professor*
 B.S., Henderson State Teachers College, 1949 *of Physical Education*
 A.M., George Peabody College, 1951
 Morehead State College since 1951

CLIFFORD R. RADER, A.B., A.M., Ph.D. *Professor of History and Government,*
 A.B., Eastern (Ky.) State College, 1934 *Head of Department*
 A.M., University of Kentucky, 1937
 Ph.D., University of Kentucky, 1945
 Morehead State College since 1947

Si Prewitt

Inst. P.E.

STANLEY RADJUNAS, A.B., A.M. *Assistant Professor*
 A.B., Morehead State College, 1940 *of Health and Physical Education,*
 A.M., Morehead State College, 1946 *Assistant Coach*
 Morehead State College since 1946

MARY R. RANGE, A.B., A.M. *Instructor in*
 A.B., Milligan College, 1942 *Education,*
 A.M., George Peabody College, 1952 *Supervising Teacher of Third Grade*
 Morehead State College since 1951

VIRGINIA RICE, B.S., M.S. *Instructor in*
 B.S., University of Kentucky, 1927 *Education,*
 M.S., University of Kentucky, 1952 *Supervising Teacher of Home Economics*
 Morehead State College since 1947

NORMAN N. ROBERTS, B.S., M.S. *Instructor in*
 B.S., Morehead State College, 1950 *Industrial Arts*
 M.S., Stout Institute, 1951
 Morehead State College since 1952

Thelma Rouse

Ins. H.Eo.

MARIE G. SIANI, R.N., B.S., M.A. *Director of*
 R.N., Waterbury (Conn.) Hospital *Nursing Service,*
 School of Nursing, 1925 *King's Daughters Hospital*
 B.S., New York University, 1948
 M.A., New York University, 1952

- 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
- NORMAN TANT, B.S., A.M., Ph.D.Associate Professor
 B.S., State Teachers College of Education,
 (Jacksonville, Ala.), 1940 Director of Visual
 A.M., George Peabody College, 1948 Education
 Ph.D., George Peabody College, 1952
 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
- Blanche Waltz (see Bottom page 16)*
- 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
- LEROY WEIL, B.S., A.M., Ph.D.Professor of Music,
 B.S., Teachers College, Head of
 Columbia University, 1942 Department
 A.M., Teachers College,
 Columbia University, 1944
 Ph.D., University of North Carolina, 1950
 Morehead State College since 1949
- FENTON T. WEST, A.B., M.S., Ph.D.Professor of
 A.B., Marshall College, 1927 Biology, Head of
 M.S., West Virginia University, 1931 Division of
 Ph.D., Ohio State University, 1945 Science and
 Morehead State College since 1947 Mathematics
- HAZEL WHITAKER, A.B., A.M.Instructor in
 A.B., Morehead State College, 1940 Education,
 A.M., Morehead State College, 1950 Supervising
 Morehead State College since 1950 Teacher of
 Second Grade

- MONROE WICKER, A.B., A.M. Associate Professor
 A.B., Tusculum College, 1930 of Education,
 A.M., University of Kentucky, 1940 Director of
 Morehead State College since 1947 Training School
- 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. Instructor in
 A.B., Eastern (Ky.) State College, 1936 Library Science,
 B.S., University of Kentucky, 1946 Training School
 Morehead State College since 1950 Librarian
- Roger Wilson (See Palmquist)*
- MARY JO WOERNER, R.N., B.S. Assistant Professor
 R.N., St. John's Hospital (St. Louis), 1936 of Nursing,
 B.S., University of Missouri, 1952 Head of
 Morehead State College since 1952 Department
- GEORGE THOMPSON YOUNG, A.B., A.M. Assistant Professor
 A.B., Centre College, 1931 of Education,
 A.M., Teachers College, Columbia Supervising
 University, 1935 Teacher of
 Morehead State College since 1932 Social Science
- THOMAS D. YOUNG, A.B., A.M. Assistant Professor
 A.B., University of Kentucky, 1925 of Art
 A.M., Columbia University, 1932
 Morehead State College since 1936

Blanche Waltz

*Instr. Ed
 Supervising Tch.
 6th Grade*

Committees

ADMINISTRATIVE COUNCIL

SPAIN, HOGAN, LAPPIN, McMILLIAN, RADER, WICKER, WILKES

CURRICULUM AND INSTRUCTION

LAPPIN, CLAYPOOL, EVANS, MILES, WEIL, WEST, AND THREE STUDENTS

LIBRARY

FOWLER, BANKS, CHAPMAN, DENNEY, PHILLIPS, WILLIAMS,
AND THREE STUDENTS

ATHLETICS

ANDERSON, FAIR, HOGAN, E. JOHNSON, LAPPIN, LAUGHLIN, RICE
AND TWO STUDENTS

GRADUATE COUNCIL

LAPPIN, CAREY, McCONKEY, OWSLEY, WALTER

FELLOWSHIPS, SCHOLARSHIPS AND STUDENT AID

FAIR, CAUDILL, EXELBIRT, HAGGAN, NOLLAU

STUDENT WELFARE AND STUDENT LIFE

PALMQUIST, BOLIN, LAPPIN, PROP, AND FIVE STUDENTS

INTER-DORMITORY COUNCIL

APEL, GRAVES, HILL, MAYS, McSHEA, PALMQUIST, RADJUNAS,
WHITAKER, AND FIVE STUDENTS

SPECIAL ENTERTAINMENTS AND EVENTS

LONG, FINCEL, POUND, G. YOUNG, T. YOUNG, AND FOUR STUDENTS

STUDENT LOANS

FAIR, HOGAN, LAPPIN, PALMQUIST

GUIDANCE

PALMQUIST, HUFFMAN, M. JOHNSON, LOWE, TANT,
AND THREE STUDENTS



College Auditorium



Johnson Camden Library

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, the Auditorium-Gymnasium, Senff Natatorium, Science Hall, and the President's Home form an arc to the west of the campus, while Thompson Hall, Breckinridge Training School, the Fine Arts Building, Men's Hall and the Stadium 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 administrative offices, some recitation rooms, a well-equipped college bookstore and a college post office for the convenience of the faculty and students.

DORMITORIES

Allie Young Hall and Fields Hall are dormitories for women, each with a housing capacity of about one hundred fifty students. These halls are provided with attractive parlors and reception rooms. Student bedrooms are double rooms, comfortable and adequate for the needs of students.

Thompson Hall and Men's Hall will each accommodate approximately one hundred and sixty-five men. Both dormitories are modern throughout and are well equipped and furnished.

CAFETERIA

The cafeteria is located on the ground floor of Allie Young Hall. It is a feature of the college of which every one may feel justly proud. Resident students are required to take their meals here. The kitchen is equipped with the most modern electrical cooking apparatus, is thoroughly sanitary and is open for inspection at any time.

PRESIDENT'S HOME

The President's Home is a dignified brick residence, completed in 1930, and stands on a terraced lawn at the southwest corner of the campus, facing the boulevard. The house is fully equipped and is beautifully furnished in keeping with the importance and dignity of such a building.

AUDITORIUM-GYMNASIUM

The auditorium and gymnasium are enclosed in one building. The gymnasium has a large playing floor and bleachers accommodating one thousand, with standard locker and shower equipment in the basement. The auditorium, main floor and balcony, has a seating capacity of 1,500 and provides from all points an unobstructed view of the orchestra pit and stage.

JOHNSON CAMDEN LIBRARY

Johnson Camden Library, finished in 1930, is a beautiful white stone building situated between Allie Young and Fields Hall. The library has a reading room and research facilities for 1,500 students, and a book-housing capacity of 100,000 volumes. At present there are approximately 43,000 catalogued books, a complete magazine section, and a large collection of bulletins, pamphlets, and public documents.

BRECKINRIDGE TRAINING SCHOOL

Breckinridge Training School was completed in 1931. It is built and equipped for school work from the kindergarten through senior high school. The first floor is given over to the manual arts laboratories and the boys' and girls' locker rooms. The director's office, auditorium and lower grade rooms occupy the main floor; junior and senior high school homerooms, the second; home economics and science laboratories, library, and gymnasium, the third floor. The arrangement and furnishings of the building are such that student teachers may learn what is desirable in modern school equipment and building plans.

JAYNE MEMORIAL STADIUM

Jayne Memorial Stadium, a concrete structure with a seating capacity of 2,500, was erected on the athletic field at the east end of the campus in the fall of 1930. The space beneath the stadium has been utilized for dressing quarters for home and visiting teams.

SENFF NATATORIUM

Located west of the Auditorium-Gymnasium is Senff Natatorium. The natatorium is constructed of red brick and the stone pediment bears this inscription: "This swimming pool is dedicated to the ideal of a clean and vigorous youth." The building contains a ninety-foot by thirty-foot tile swimming pool, a spectators' gallery the length of the pool on one side, and dressing and shower rooms for the faculty and students on the other side. The pool has underwater lights, and its depth varies from three feet to nine feet. The glass roof is adjustable, thus giving all the advantages of an outdoor pool in summer, while the closed glass intensifies the heat in winter. The water is completely purified and is tested regularly by the State Board of Health.

SCIENCE HALL

Science Hall was completed during the first summer term of 1937. It is a four-story brick structure which houses the following departments: industrial arts, agriculture, geography, mathematics and physics, biology, chemistry, home economics and nursing. These departments are thoroughly equipped with the latest and most modern apparatus.

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 1937, 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 the heavier metals.

FINE ARTS BUILDING

The Fine Arts Building is under construction at the present time. When completed, this building will house the Department of Music. It will contain offices, classrooms, practice and ensemble rooms, as well as a large rehearsal hall that may also be used for recitals and concerts. Completion of the building is expected in time for occupancy in September of 1953.

RESERVOIR AREA

The College has just completed a large earthen dam which will impound a water reservoir of approximately 25 acres. The watershed involved in this project comprises approximately 600 acres. Arrangements have been made with the appropriate state agencies to make use of this area as a demonstration forestry area and game refuge.

When this project is completed, Morehead will have unusual facilities for nature study, camping education, and recreation.

Instructions To Students

PROCEDURE FOR ADMISSION

All correspondence concerning admissions should be addressed to Director of Public Relations, 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 and Secondary 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 should 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 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 the College. 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 54 of this catalog.

ADMISSION OF VETERANS:

Veterans are admitted on the same basis as other students except that a veteran who has been granted a diploma on the basis of scores made on the General Educational Development Tests, by an approved high school, will be admitted unconditionally to the freshman class, provided he has made an average score of 45 or better on these tests.

CREDIT GRANTED TO VETERANS FOR SERVICE

Eight semester hours of general credit will be granted to those veterans who present satisfactory evidence of having completed basic training courses in the armed forces.

Credit for specialized courses taken while in service will 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 military service, or 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, a comfort, 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.

RESERVING ROOMS IN DORMITORIES

All boarding students are expected to room in the dormitories. Anyone desiring a room should write to the Director of Public Relations and enclose \$3.00 to secure a reservation. When the student enrolls, this reservation fee is applied on his room rent. If a student does not enroll after making a room reservation, the reservation fee is retained by the college.

Permanent room assignments will not be made until the student has made satisfactory arrangements with the Business Office.

All assignments to dormitories are made by the Dean of Students.

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

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 boarding 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 Director of Public Relations in advance of their arrival, so that the best possible arrangements can be made.

BOARDING FACILITIES

Board is provided in the college cafeteria. Cafeteria coupon books, good for \$5.00 in board, are on sale at the Business Office at all times and may be purchased as needed. Board will average approximately \$9.00 per week.

Men and women students occupying rooms on the campus are *required* to take their meals at the college cafeteria. They are required to pay for six cafeteria coupon books in advance at the beginning of each semester, and three coupon books at the beginning of each summer term. Each dormitory student must purchase a minimum of nine coupon books during a semester. All of these must be purchased not later than two weeks before the close of the semester.

Light housekeeping is not permitted in dormitory rooms. Any student violating this rule will be asked to leave his or her room and, in case of such release of a room, 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 \$1.00 per day, not to

exceed a total of \$5.00, 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 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 2.0 during the previous term may schedule not to exceed 18 semester hours with the permission of the Dean; a student who has earned a quality-point standing of 2.25 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 2.35 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 2.5, with no mark below B, during the previous term 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.

	Reg	1st
Sem	12	9
8 weeks	6	4½
5½ weeks	4	X

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	Graduate courses

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

SCHOLARSHIP POINTS

The mark of "A" carries 3 points; "B," 2 points; "C," 1 point; "D," no points. The number of quality points must equal the number of quantity points, or semester hours, that are required for graduation or certification. An average of "C," or a standing of 1, must be maintained for graduation and for certification.

SCHOLASTIC PROBATION

Any student making a standing of five-tenths 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 seven-tenths during his next semester in residence.

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 when-

ever 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 Dean's office.)

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 the College.

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 officers of administration, in cooperation with the faculty and 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 the College. No refunds will be made unless the withdrawal is made through the proper channels.

EXPENSES

The incidental fee for students residing in Kentucky is \$35.00 for each semester. The incidental fee for students residing outside Kentucky is \$55.00 per semester. This incidental fee is payable at the time of registration.

* 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.

TERMS OF PAYMENT:

All fees, room rent, and board 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, the first payment being made at the time of registration. 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 first 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 \$1.50 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.

PHYSICAL EXAMINATION FEE:

A fee of \$1.00 is charged for taking the annual physical examination at a time other than that regularly scheduled. If the examination is taken at the assigned time, no fee is charged.

STUDENT ACTIVITIES FEE:

To cover the cost of attending all athletic contests in Morehead sponsored by the college, special entertainments scheduled during the semester, and a subscription to the Trail Blazer, a fee of \$4.50 a semester is charged to all students on registration day. 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. This fee is payable at the time of registration.

SWIMMING FEE:

Payment of the Laboratory 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. This fee is collected at the time of registration from all students enrolling for the Second Semester and from all additional students enrolling for the Spring Term.

FEE FOR LATE REGISTRATION:

Students who enroll after the day of registration are required to pay an additional fee of \$1.00 for each day they are late, the total not to exceed \$5.00.

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.

NECESSARY EXPENSES AT MOREHEAD FOR ONE SEMESTER:

Incidental fee -----	\$ 35.00
Room rent -----	45.00
Board at \$9.00 per week approximately -----	162.00
College post office box rent -----	.75
Estimated cost of books -----	15.00
Laboratory fee -----	4.50
Student activity fee -----	4.50
Medical fee -----	1.50
Laundry fee -----	2.25
Total -----	\$270.50

THE FOLLOWING EXPENSES ARE PAYABLE IN ADVANCE FOR THE SEMESTER:

Incidental fee -----	\$ 35.00
Room rent in the dormitories -----	45.00
Board in the college cafeteria, 6 tickets -----	30.00
College post office box rent -----	.75
Laboratory fee -----	4.50
Student activity fee -----	4.50
Medical fee -----	1.50
Laundry fee -----	2.25
Total -----	\$123.50

PART-TIME FEES:

The Incidental Fee for students enrolled for less than 12 semester hours of work is \$3.00 per semester hour.

FEES FOR GRADUATE INSTRUCTION:

The Incidental Fee for graduate students is \$3.00 per semester hour.

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.

These same regulations will govern refunds on out-of-state tuition.

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 President's Office.

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. Only a few students are able to be entirely self-supporting, since it is not advisable for a student to spend more than 25 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.

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.

Jayne Memorial Scholarship—The family of W. L. Jayne, Sr., who served as a member of the original faculty of the institution and who throughout his lifetime was a recognized leader of education in Eastern Kentucky, has provided for a scholarship in his memory. This award carries a grant of \$300.00 per year.

Morehead Women's Club Scholarship—The Morehead Women's Club has established a scholarship for a worthy young woman. The recipient of this award receives a grant of \$100.00 per year.

Scholarships for Nurses—An anonymous donor has made available to any students who meet the institutional requirements for required to complete the campus-training program for nurses. These awards are available to young women who wish to be registered nurses. It is the purpose and desire of the donor to render assistance in filling the need for competent nursing service in the eastern part of the state.

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

Morehead Normal School Scholarship—The alumni of the Morehead Normal School, the forerunner of Morehead State College, provide a scholarship which pays the regular college fees for a worthy student of their own choice.

American Legion Scholarship—The Corbie Ellington Post of the American Legion provides a scholarship which pays the regular college fees for a student selected by its own committee.

WEEK-END CLASSES

Morehead follows the practice of scheduling a limited number of classes on Friday evening and 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 week-end 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 \$100.00 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 \$4.00 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 \$400.00. The minimum individual fee for a graduate course by extension is \$5.00 a semester hour.

Individuals interested in having extension classes organized in their localities should write the Director of Extension and Correspondence.

CORRESPONDENCE COURSES:

Morehead also offers college courses by correspondence. The fee for this work is \$4.00 a semester hour. An additional Enrollment Fee of \$3.00 is charged for the first enrollment for work of this type.

Anyone interested in correspondence work should write the Director of Extension and Correspondence 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 19 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 American Association of Colleges for 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 and physical education.
- 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. A three-year program for the preparation of registered nurses.
- i. Preliminary training for professional study in medicine, dentistry, law, pharmacy, engineering, 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 8 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 through the President's Office. For a more complete statement see page 33 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 23 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 Director of Public Relations, 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 \$35.00 per semester and for out-of-state students this fee is \$55.00. An itemized list of the usual expenses of students is estimated on page 32 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 pages 43-46 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 \$1.50 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 six churches in Morehead, representing the following denominations: Baptist, Catholic, Christian, Methodist, and Church of God. 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 from 10:00 to 10:50 on Thursday of each week. Special meetings may be called at the same period 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, the National Association of Intercollegiate Athletics 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 President.

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 and appears on the campus Tuesday morning. 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.

INK POT

The Ink Pot, 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.

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 one is prerequisite for pledging.

The Agricultural 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.

Future Teachers of America. A national charter was granted to the Morehead Chapter of this organization in 1940. "The F.T.A. groups are practice schools voluntarily established by the students themselves as training grounds for professional and civic action. Their purpose is to give every prospective teacher the power that comes from experience in working with others on significant professional and civic projects looking toward active participation in the great state and national education associations that give leadership to the causes of education in America."

The Industrial Arts Club is made up of students who are majoring or minoring in industrial arts and who wish to broaden their knowledge of the field by participating in related activities. Students who are qualified for membership are elected by existing members. An average class standing of "C" is a prerequisite to election.

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.

The Mu Phi Club is an organization composed of those students who are interested in mathematics and physics. Meetings are held twice each month, at which time discussions of topics of general interest are given. One of the most enjoyable features of the club is the social hour which follows each meeting. Occasionally the club takes trips to points of scientific interest.

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.

Coffee Club. The purpose of this club is to provide an informal center for the discussion of literary topics and an interchange of student opinions regarding literature generally. There is no formal program and meetings are casual. Membership is open to all students.

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.

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. Bachelor's degree without a certificate.
4. Bachelor's degree and the certificate in Vocational Home Economics.
5. Bachelor's degree with an area in business administration.
6. Three-year program for registered nurses.
7. 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 one, 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 Dean their selection of majors and minors. (This does not include those who are applying for the Bachelor of Arts degree with the Provisional Elementary Certificate.) 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 of 24 semester hours each, or one major of 24 semester hours and two minors of 18 semester hours each, 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	

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

Dramatics
Speech
Library Science

* In English a major requires a minimum of 30 semester hours and a minor of 24 semester hours. (See p. 98.)

† Note that Education cannot be counted as a major or minor field.

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. A person who concentrates in an area is not required to offer minors in any other field, but any single subject in which he has as much as 12 semester hours outside his area of concentration may be added to the face of his certificate.

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

7 Social Science	4 Home Economics	5 Music
6 Science - 49-51	2 Commerce - 48	1 Art - 52
	3 English - 48	

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
211 Human Growth and Development II	3
227 Literature for Children	3
321 Teaching of Arithmetic	3
325 Supervised Student Teaching	4
326 Teaching of Reading	3
333 Fundamentals of Elementary Education	4
420 Principles and Practices of Elementary Education	4
425 Supervised Student Teaching	4
Minimum in education	(32)

b. ENGLISH

101 Writing and Speaking	3
102 Writing and Speaking	3
To be selected from literature courses numbered above 300	6
Minimum in English	(12)

c. DRAMATICS

283 Elementary Dramatics	3
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d. SPEECH

280 Basic Speech	3
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e. SOCIAL SCIENCE

Geography

100 Fundamentals of Geography	3
300 Regional Geography for Elementary Teachers	3

History

131 History of Civilization	3
132 History of Civilization	3
400 American Foundations	3

Economics

201 Principles of Economics	4
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Sociology

170 Rural Sociology	3
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Sem. Hrs.

Political Science

241	Government of the United States	3
	Minimum in social science	(25)

f. **SCIENCE**

101	Introduction to Biological Science	3
102	Introduction to Biological Science	3
103	Introduction to the Physical Sciences	3
104	Introduction to the Physical Sciences	3
	Elective in science to be selected from biology, chemistry, physics, or geology	3
	Minimum in science	(15)

g. **FINE ARTS****Art**

121	Public School Art	3
221	Advanced Public School Art	2

Music

100	Rudiments of Music	3
121	Music for the Elementary Grade Teacher	2

Fine Arts

160	Appreciation of the Fine Arts	3
	Minimum in fine arts	(13)

h. **HEALTH AND PHYSICAL EDUCATION**

104	Personal Hygiene and Public Safety	2
320	Plays and Games for Elementary Schools....	2
	Activity courses in physical education	2
	Minimum in health and physical education....	(6)

i. **AGRICULTURE**

101	General Agriculture	3
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j. **HOME ECONOMICS**

302	Nutrition for Elementary Teachers	2
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k. **ELECTIVE**

	See General Requirements for the Bachelor's De-	14
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l. **See General Requirements for the Bachelor's De-**

	gree, page 47	
	Minimum for the degree	128

II. The Bachelor of Arts Degree and the Provisional High School Certificatea. **EDUCATION**

100	Orientation in Education	1
210	Human Growth and Development I	3
211	Human Growth and Development II	3
472	Fundamentals of Secondary Education	4
375	and 475 Supervised Student Teaching	8
	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 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
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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 concentration. 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	

f. ELECTIVE 4-16

g. See General Requirements for the Bachelor's Degree, page 47.

Minimum for the degree	128
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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 47.	
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, 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, mathematics, library science, 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 Instruction. 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 Instruction.
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 2.0 on all work offered for the degree, and no credit is allowed for a mark below C.
3. Graduate students may enroll in upper division courses, 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 or more than eight hours in a summer term.
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	18
To be selected from Agriculture 213, 284, 301, 305, 311, 315, or 337	9
Total for a Major	27

<i>For a Minor:</i>	
Agriculture 111, 180, 215, 237	12
To be selected from Agriculture 213, 284, 301, 305, 311, 315, 336, 337, or 415	9
Total for a Minor	21

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, 216, and 317
Chemistry 111, and 112
Mathematics 101, or 151 and 152
English 101 and 102
Geology 101

Nine hours additional may be selected from the following:

Anthropology, Economic History of the United States,
Money and Banking, Economic Geography, Political Science,
Recent History of the United States, and Public Speaking.

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 agricultural 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. Three 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.

Organization and pattern of rural society; effects of rural conditioning on the individual; isolation, mobility, and migration as factors in the rural process; rural social change and government in rural life; problems of farm youth; rural health and sanitation; economic aspects of rural areas; the role of government agencies; cooperative movements; rural pathology; welfare movements.

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. Four 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 Gardening. 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 219. Farm Shop. Three hours.

The general problems which a farmer must face in his own shop; construction and care of simple farm appliances; care of farm equipment.

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 284. 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 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.

Agriculture 304. Genetics. Three hours.

Prerequisite: Science 101, Biology 210 or 215.

History of genetics, gamete formation, segregation and recombination of factors, dominance, complementary and supplementary factors, inhibitor factors, sex-linkage factors, sex limited factors; linkage and cross over, and biometric methods. Implications of genetics for eugenics and eugenics.

Agriculture 305. 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 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 334. Agricultural Entomology. Three hours.

Prerequisite: Science 101 or Biology 210.

General structure of insects, life histories, common orders, families; economic importance and common methods of control.

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 proving 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 414. Plant Diseases. Three hours.

Prerequisites: Biology 215 and 216.

Significance of plant disease; classification of fungi; diseases caused by rusts, smut, fleshy fungi, bacteria, and viruses; physiogenic diseases; principles and procedure in control of plant diseases; resistant varieties and cultural control. One lecture-discussion and four laboratory hours per week.

Agriculture 415. Animal Nutrition. Three hours.

Prerequisite: Chemistry III.

Digestive system 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.

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
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For a Minor:

Art 101, 121, 161, 202 or 291, 221, 263 or 264 or 465, 311 or 314, 341, and 471	20
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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....	52
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Note.—Students who are not working for a teaching certificate will be permitted to make substitutions for Art 121 and 221. These substitutions must be approved in advance by the department.

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.		P. E. 100b—Orientation in Phys.	
Ed.	$\frac{1}{2}$	Ed.	$\frac{1}{2}$
Freshman Orientation	1	Ed. 100—Orientation in Education	1
Art 101—Drawing	2	Art 202—Composition and	
Art 121—Public School Art	3	Drawing	2
Sci. 101—Int. to Biological Science	3	Art 291—Color and Design	2
or		Sci. 102—Int. to Biological Science	3
Sci. 103—Int. to Physical Science	3	or	
I.A. 103—Elementary Mechanical		Sci. 104—Int. to Physical Science	3
Drawing	3	Art 161—Art Appreciation	3
P.E. 104—Personal Hygiene	2	Geog. 100—Fundamentals of	
		Geography	3
	$17\frac{1}{2}$		$17\frac{1}{2}$

MOREHEAD STATE COLLEGE

SOPHOMORE YEAR

First Semester		Second Semester	
Eng. 201—Introduction to Literature	3	Eng. 202—Introduction to Literature	3
P. E.—Activity Course	$\frac{1}{2}$	P. E.—Activity Course	$\frac{1}{2}$
Ed. 210—Human Growth and Development I	3	Ed. 211—Human Growth and Development II	3
Art 263—History of Arch. and Sculpture	3	Art 264—History of Painting	3
Art 221—Advanced Public School Art	2	Art 292—Costume Design I	2
Sci. 103—Int. to Physical Science or	3	Sci. 104—Int. to Physical Science or	3
Sci. 101—Int. to Biological Science		Sci. 102—Int. to Biological Science	3
I. A. 203—Advanced Mechanical Drawing	3	Hist. 132—History of Civilization	3
	<hr/> 17½		<hr/> 17½

JUNIOR YEAR

First Semester		Second Semester	
Ed. 333—Fund. of Elementary Education	4	Ed. 472—Fund. of Secondary Education	4
Art 304—Figure Drawing and Composition	2	Art 314—Water Color Painting I	2
Art 311—Oil Painting I	2	Art 394—Stage Des. and Marionette Prod.	3
Art 341—Crafts I	2	Art 482—Commercial Art II	2
Art 381—Commercial Art I	2	Geog. 331—Europe	3
Art 303—Studio Problems	2	Elective	2
P. E. 285—Community Recreation	2		
	<hr/> 16		<hr/> 16

SENIOR YEAR

First Semester		Second Semester	
Ed. 325—Student Teaching	4	Ed. 375—Student Teaching	4
Art 413—Portrait Painting	2	Art 412—Oil Painting II	2
Art 415—Water Color Painting II	2	Art 455—Advanced Art Problems	3
Art 465—Modern and Contemporary Art	3	Art 471—Seminar	1
Hist. 400—American Foundations	3	Elective	2
	<hr/> 14		<hr/> 12

Provisional High School Certificate with the First 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.		P. E. 100b—Orientation in Phys.	
Ed.—Freshman Orientation	$\frac{1}{2}$	Ed.—Orientation in Education	$\frac{1}{2}$
Art 101—Drawing	2	Art 161—Art Appreciation	3
Art 121—Public School Art	3	I. A. 103—Elem. Mechanical Drawing	3
Sci. 101—Int. to Biological Science or	3	Sci. 102—Int. to Biological Science or	3
Sci. 103—Int. to Physical Science		Sci. 104—Int. to Physical Science	3
Hist. 131—History of Civilization	3	Hist. 132—History of Civilization	3
P. E. 104—Personal Hygiene	2		
	<hr/> 17½		<hr/> 16½

SOPHOMORE YEAR

First Semester		Second Semester	
Eng. 201—Int. to Literature	3	Eng. 202—Int. to Literature	3
P. E.—Activity Course	$\frac{1}{2}$	P. E.—Activity Course	$\frac{1}{2}$
Ed. 210—Human Growth and Development I	3	Ed. 211—Human Growth and Development II	3
Art 211—Advanced Public School Art	2	Art 202—Composition and Drawing	2
Art 263—History of Arch. and Sculpture	3	Art 291—Color and Design	2
Art 264—History of Painting	3	Econ. 201—Principles of Economics	4
Sci. 103—Int. to Physical Science	3	Sci. 104—Int. to Physical Science	3
Sci. 101—Int. to Biological Science	3	Sci. 102—Int. to Biological Science	3
Second Major	3		
	<hr/> 17½		<hr/> 17½

JUNIOR YEAR

First Semester		Second Semester	
Art 311—Oil Painting I	2	Ed. 472—Fund. of Secondary Education	4
Art 314—Water Color Painting I	6	Art 381—Commercial Art	2
Second Major	2	Art 304—Figure Drawing	6
P. E. 285—Community Recreation	3	Second Major	3
I. A. 203—Adv. Mechanical Drawing	3	Advanced Elective	3
Advanced Elective	3		
	<hr/> 16		<hr/> 17

SENIOR YEAR

First Semester		Second Semester	
Ed. 375—Student Teaching	4	Ed. 475—Student Teaching	4
Art 412—Oil Painting II	2	Art 413—Portrait Painting	2
Art 415—Water Color Painting II	1	Art 471—Seminar	1
Second Major	6	Second Major	3
	<hr/> 12	Hist. 400—American Foundations	3
			<hr/> 13

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. No marks are given in this course other than credit or no-credit. 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 is; basic elements of art and the functioning of principles of design; philosophy and methods of teaching art in the elementary grades; materials and

tools; selection and use of desirable art books for the grades; participation in individual and group activities suitable for the grades, both interrelated with school subjects and otherwise, such as drawing, painting, clay work, crafts, movies, puppet shows, bookmaking, feltograms, dioramas, descriptive and animated maps, murals, friezes, block printing, lettering, posters, and other school art activities. One day a week is spent in observing art being taught in the elementary grades in the Training School.

Fine Arts 160. Appreciation of the Fine Arts. Three 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, and portraits 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 I. 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. Two hours.

Prerequisites: Art 101 or 304 and 291.

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 still life compositions—realistic, abstract, stylized, or conventionalized; arranging and rearranging compositional elements for landscapes; composing portraits and figure studies; arrangement of materials for painting, sculpture, or crafts.

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.

Prerequisite: Art 161 or 291.

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; craftwork that may be adapted to native materials of the local community; creative manipulation of cast-off materials; camp-craft. A selection of six 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 383. Interior Decoration. Three hours.

Prerequisite: Art 291.

Application of design principles to interiors through illustrated lectures, reports, and discussions; relationship of furniture and fixtures to the personality of the interior and the individual; making of original combinations of styles to suit individual purposes. Each student will take part in making miniature models of interiors.

Art 394. Stage Design and Marionette Production. Three 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 412. Oil Painting II. Two hours.

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

This course is a continuation of Art 311.

Art 413. 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 415. Water Color Painting II. Two hours.

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

This course is a continuation of Art 314.

Art 442. Crafts II. Two hours.

Prerequisites: Art 161 or 291, and 341.

This course is a continuation of Art 341.

Art 455. 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.

Art 465. 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 482. Commercial Art II. Two hours.

Prerequisites: Art 101 and 381.

This course is a continuation of Art 381.

Art 493. 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.

COMMERCE AND BUSINESS ADMINISTRATION

Mr. Anderson

Miss Cox

Mr. Lowe

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 hrs. in Accounting 381, 382
- 14 hrs. in Secretarial Practice chosen from: 211, 212, 213, 231, 232, 235, 238, 331, 332, 333
- 22 hrs. in General Business chosen from: 101, 160, 221, 236, 360, 362, 364, 449, 450, 451, 461, 462, 464
- 4 hrs. in Materials and Methods chosen from: 375, 475, 478
- 48 hrs. Minimum

In selecting courses to fulfill the general and professional requirements for graduation the major in commerce must include in his program 12 hours of work in economics and geography which will include at least one "Principles" course in each field.

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: 211 or 212, 213, 231, 232, 331
 - 2 hrs. in Materials and Methods: 375
 - 3 hrs. in General Business: 221
 - 6 hrs. elective selected from: 235, 238, 332, 333
 -
 - 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 237

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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

—
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
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,
449, 450
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 13 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.

College and Departmental Requirements:

	Sem. Hrs.
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
General Economics, Fundamentals of Geography, and American Foundations	
Health and Physical Education	4
Electives	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. 464 Office Management	3
Com. 481 Intermediate Accounting	4
	<hr/>
Total	50
	<hr/>
Total	128

*To be selected with the approval of the department.

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.		P. E. 100b—Orientation in Phys.	
Ed.	$\frac{1}{2}$	Ed.	$\frac{1}{2}$
Freshman Orientation	1	Com. 212—Intermediate	
Com. 101—Business Arithmetic	3	Typewriting	
Com. 211—Beginning Typewriting		or	2
or	2	Com. 213—Advanced Typewriting	
Com. 212—Intermediate		*Com. 232—Intermediate	
Typewriting		Shorthand	4
*Com. 231—Beginning Shorthand	4	Com. 221—Business English	3
Com. 233—Filing	2	*Com. 235—Secretarial Office	
Com. 236—Clerical Office		Machines	2
Machines	2	P. E. 104—Personal Hygiene	2
	<hr/>		<hr/>
	17½		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.		P. E. 100b—Orientation in Phys.	
Ed. Freshman Orientation	1½	Ed.	1½
Com. 101—Business Arithmetic	3	Com. 212—Intermediate Typewriting	2
Com. 211—Beginning Typewriting or	2	Com. 213—Advanced Typewriting or	2
Com. 212—Intermediate Typewriting		*Com. 232—Intermediate Shorthand	4
*Com. 231—Beginning Shorthand	4	Com. 221—Business English	3
Com. 238—Filing	2	Com. 235—Secretarial Office Machines	2
Com. 236—Clerical Office Machines	2	P. E. 104—Personal Hygiene	2
	<hr/> 17½		<hr/> 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	4	Econ. 202—Economic Problems	2
Com. 381—Principles of Accounting	4	Com. 382—Principles of Accounting	4
Com. 213—Advanced Typewriting or	2	*Com. 333—Applied Shorthand	2
Com. 237—A and B Office Machines		Com. 383—Income Tax Procedure	4
P. S. 241—Government of the U. S.	3	P. E. —Activity Course	1½
P. E. —Activity Course	½	Com. 236—Office Machines	1
	<hr/> 16½		<hr/> 16½

* 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.

The Provisional High School Certificate with an Area of Concentration in Commerce**FRESHMAN YEAR**

First Semester		Second Semester	
Freshman Orientation		Ed. 100—Orientation in Education	
Eng. 101—Writing and Speaking	3	Eng. 102—Writing and Speaking	3
P. E. 100a—Orientation in Phys.		P. E. 100b—Orientation in Phys.	
Ed.	½	Ed.	½
Com. 101—Business Arithmetic	3	Com. 160—Introduction to Business	3
Sci. 101—Int. to Biological Science or	3	Sci. 102—Int. to Biological Science or	3
Sci. 103—Int. to Physical Science		Sci. 104—Int. to Physical Science	3
Geog. 100—Fundamentals of Geography	3	Geog. 211—Economic Geography	3
Com. 211—Beginning Typewriting or	2	Econ. 159—Economic History of the U. S.	3
Com. 212—Intermediate Typewriting			
P. E. 104—Personal Hygiene	2		
	<hr/> 17½		<hr/> 16½

SOPHOMORE YEAR

First Semester		Second Semester	
Eng. 201—Introduction to Literature	3	Eng. 202—Introduction to Literature	3
P. E.—Activity Course	1½	P. E.—Activity Course	1½
Sci. 103—Int. to Physical Science	3	Sci. 104—Int. to Physical Science	3
or		or	
Sci. 101—Int. to Biological Science	3	Sci. 102—Int. to Biological Science	3
Com. 212—Intermediate Typewriting	2	Com. 232—Intermediate Shorthand	4
or		Com. 221—Business English	3
Com. 213—Advanced Typewriting	4	Ed. 211—Human Growth and Development II	3
Com. 231—Beginning Shorthand	3		
Ed. 210—Human Growth and Development I	3		
	<hr/> 15½		<hr/> 16½

JUNIOR YEAR

First Semester		Second Semester	
Com. 381—Principles of Accounting	4	P. E. 285—Community Recreation	2
Com. 375—Mat. and Meth. in Sec. Subjects	2	Ed. 472—Fund. of Secondary Education	4
Com. 331—Dictation and Transcription	3	Com. 382—Principles of Accounting	4
Com. 364—Personal Finance	2	Com. 475—Mat. and Meth. in Bookkeeping and General Business	2
Econ. 201—Principles of Economics	4	Com. 362—Consumer Education	3
Elective	2	Core Curriculum	2
	<hr/> 17		<hr/> 17

SENIOR YEAR

First Semester		Second Semester	
Ed. 375—Student Teaching	4	Ed. 475—Student Teaching	4
Com. 461—Business Law	3	Com. 462—Business Law	3
Com. 450—Salesmanship	3	Com. 449—Seminar	1
Core Curriculum	5	Hist. 400—American Foundations	3
	<hr/> 15	Elective	3
			<hr/> 14

**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
P. E. 100a—Orientation in Phys. Ed.	1½	P. E. 100b—Orientation in Phys. Ed.	1½
Freshman Orientation	1	Com. 160—Introduction to Business	3
Sci. 101—Int. to Biological Science	3	Sci. 102—Int. to Biological Science	3
or		or	
Sci. 103—Int. to Physical Science	2	Sci. 104—Int. to Physical Science	2
Math. 151—College Algebra	3	Math. 152—College Algebra	2
Econ. 149—Economic History of the U. S.	3	Geog. 211—Economic Geography	3
Geog. 100—Fundamentals of Geography	3	Com. 211—Beginning Typewriting	2
P. E. 104—Personal Hygiene	2	Com. 212—Int. Typewriting	2
	<hr/> 17½		<hr/> 16½

SOPHOMORE YEAR

First Semester		Second Semester	
Eng. 201—Introduction to Literature	3	Eng. 202—Introduction to Literature	3
P. E.—Activity Course	$\frac{1}{2}$	P. E.—Activity Course	$\frac{1}{2}$
Sci. 103—Int. to Physical Science	3	Sci. 104—Int. to Physical Science	3
or		or	
Sci. 101—Int. to Biological Science	3	Sci. 102—Int. to Biological Science	3
Econ. 201—Principles of Economics	4	Econ. 202—Economic Problems	2
Sp. 280—Basic Speech	3	Math. 252—Mathematics of Finance	3
or		Foreign Language	3
P. S. 241—Government of the United States	3	P. S. 242—State and Local Government	2
		Elective	2
	<hr/> 16 $\frac{1}{2}$		<hr/> 16 $\frac{1}{2}$

JUNIOR YEAR

First Semester		Second Semester	
Com. 381—Principles of Accounting	4	Com. 382—Principles of Accounting	4
Econ. 304—Marketing	3	Com. 221—Business English	3
Math. 353—Statistics	3	Com. 360—Business Organization	3
Foreign Language		Foreign Language	
or		or	
Econ. 302—Labor Problems	3	Eng. 391—Practical Writing	3
*Elective	3	*Elective	3
	<hr/> 16		<hr/> 16

SENIOR YEAR

First Semester		Second Semester	
Com. 461—Business Law	3	Com. 462—Business Law	3
Com. 481—Intermediate Accounting	4	Com. 450—Salesmanship	3
Econ. 442—Money and Banking	3	Com. 464—Office Management	3
Hist. 400—American Foundations	3	Econ. 443—Investments	3
*Elective	2	*Elective	3
	<hr/> 15		<hr/> 15

* This program is also designed to provide courses which will enable the student to meet the educational requirements of the Kentucky accountancy law.

By taking eight of the elective hours in advanced accounting courses—Income Tax Procedure, Cost, or Advanced Accounting—a graduate may qualify for examination for a C.P.A. certificate after only two years of accounting experience with a public accountant, provided he meets the other requirements set forth in SBA 2-A of the State Board's regulations.

Provisional High School Certificate with a First Major in Commerce

(This program will not qualify the student for general teaching in commerce. The holder of this certificate will be qualified to teach in his First Major and such commerce subjects as have comprised the Second Major. The Second Major will be selected either in Secretarial Science, General Business, or Accounting.)

FRESHMAN YEAR

First Semester		Second Semester	
Eng. 101—Writing and Speaking	3	Eng. 102—Writing and Speaking	3
Freshman Orientation	1	Ed. 100—Orientation in Education	1
P. E. 100a—Orientation in Phys.		P. E. 100b—Orientation in Phys.	$\frac{1}{2}$
Ed.	$\frac{1}{2}$	Ed.	$\frac{1}{2}$
*Sci. 101—Int. to Biological Science	$\frac{1}{2}$	*Sci. 102—Int. to Biological Science	$\frac{1}{2}$
or	3	or	3
*Sci. 103—Int. to Physical Science	3	*Sci. 104—Int. to Physical Science	3
Geog. 100—Fundamentals of		Geog. 211—Economic Geography	3
Geography	3	Geog. 211—Economic Geography	3
P. E. 104—Personal Hygiene	2	Second Major	3
Second Major	3	Commerce Major	3
	<hr/>		<hr/>
	15 $\frac{1}{2}$		16 $\frac{1}{2}$

SOPHOMORE YEAR

First Semester		Second Semester	
Eng. 201—Introduction to Literature	3	Eng. 202—Introduction to Literature	3
P. E.—Activity Course	$\frac{1}{2}$	P. E.—Activity Course	$\frac{1}{2}$
Econ. 201—Principles of Economics	4	Econ. 202—Economic Problems	2
*Sci. 103—Int. to Physical Science	3	*Sci. 104—Int. to Physical Science	3
or		or	
*Sci. 101—Int. to Biological Science	3	*Sci. 102—Int. to Biological Science	3
Ed. 210—Human Growth and Development I	3	Ed. 211—Human Growth and Development II	3
Second Major	3	P. E. 285—Community Recreation	2
	<hr/>	Second Major	3
	16 $\frac{1}{2}$		<hr/>
			16 $\frac{1}{2}$

JUNIOR YEAR

First Semester		Second Semester	
Core Curriculum	3	Educ. 472—Fund. of Secondary Education	4
Commerce Major	8	Core Curriculum	3
Second Major	6	Commerce Major	3
	<hr/>	Second Major	6
	17		<hr/>
			16

SENIOR YEAR

First Semester		Second Semester	
Educ. 375—Student Teaching	4	Educ. 475—Student Teaching	4
Hist. 400—American Foundations	3	Commerce Major	6
Commerce Major	6	Second Major	3
Second Major	3	Elective	1
	<hr/>		<hr/>
	16		14

* If the second major is selected in science, the student should not enroll for these courses.

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 211. Beginning Typewriting. Two hours.

(Students who have received one unit of high school credit in typewriting are not permitted to enroll in this course for credit. Such students should enroll in Commerce 212.)

The keyboard; operating parts of the machine; centering; tabulations; arrangement of statistical material; typewriting for personal use; and simple business letters. Two demonstration-discussion periods and one laboratory period per week.

Commerce 212. Intermediate Typewriting. Two hours.

Special forms of business letters; arrangement of reports; legal forms, manuscripts; business forms, tabulations; analysis of errors; and the development of speed and accuracy. Two demonstration-discussion periods and one laboratory period per week.

Commerce 213. Advanced Typewriting. Two hours.

Review of business letters; arrangement of reports; manuscripts and literary matter; tabulations; invoices; bills and statements; legal documents; envelopes; form letters; stencils and master sheets for duplication; development of speed and accuracy to vocational standards.

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.

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 equivalent.

Typewriters; large carriage, manual and electric machines; dictaphone machines; dictating, transcribing and shaving units; duplicating machines; Ditto direct process machines; Mimeograph and Mimeoscope and Elliott addressing machines.

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 237A, 237B, 237C, 237D. Office Machines. One hour.

Prerequisite to Commerce 237A and 237B: Commerce 235.

Prerequisite to Commerce 237C and 237D: Commerce 236.

237A The Dictaphone

237B Duplicating Machines

237C Rotary Calculators

237D Key Driven Calculators

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 375. 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 383. Income Tax Procedure. Four 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 449. Seminar in Commerce. 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 450. Salesmanship. Three hours.

The salesman's personality; the actual selling process; presentation of the sale; creation of demand; sales campaigns; selecting and training salesmen. In addition, each student prepares and delivers at least one sales talk before the class during the term.

Commerce 451. 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 461. Business Law. Three hours.

The development of commercial law; procedure; the judicial system; torts and crimes applicable to business practice; contracts; agency; employer and employee relations; negotiable instruments; bailments; surety and guarantyship; insurance; sales; partnerships; corporations; personal and real property.

Commerce 462. Business Law. Three hours.

This course is a continuation of Commerce 461.

Commerce 464. Office Management. Three hours.

Function of the office; office systems; correspondence; office filing; office communications, mailing department; supervising office activities; supplies and their control; machines and appliances; office planning and layout; office personnel; office manuals; office reports; and budgetary control.

Commerce 475. 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 478. Materials and Methods in Distributive Education. Two hours.

Prerequisites: Commerce 450 and 451.

Federal legislation; objectives; organization, supervision, and administration of distributive education programs; distributive occupations; courses of study and curricula in distributive educa-

tion; requirements of distributive personnel; source materials and teaching procedures and practices in distributive education; distributive education and its relation to business education.

Commerce 480. Cost Accounting. Four hours.

Need and value of cost accounting; classifications; process and specific order; perpetual inventories; accounting for materials; material storage; consumption and valuation; labor costs; manufacturing expense; distribution of manufacturing expense; cost of sales; closing entries; analytical and comparative statements; charts; estimating cost systems; standard costs; auditing; legal phases of cost accounting.

Commerce 481. Intermediate Accounting. Four hours.

Prerequisite: Commerce 382.

The accounting process; statements from incomplete data; cash and receivables; inventories; investments; fixed assets; intangible assets and deferred charges; liabilities; capital stock; surplus; installment sales; errors and their correction; statement of application of funds; analysis of financial statements.

Commerce 482. Advanced Accounting. Four 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 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.

ECONOMICS AND SOCIOLOGY

Mr. Carey

Mr. Finkel

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 149, 201, 202	9
Sociology 170, 201, 203	9
Economics 471 or Sociology 471	1
Advanced credit in economics or sociology	6
Total for a Major	25

For a Minor in Economics and/or Sociology:

Economics 201, 202	6
Sociology 170, 201	6
Advanced credit in economics or sociology	6
Total for a Minor	18

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

Sociology 170 or 205, 201, 203, 305, 450, 471	16
Additional advanced credit in sociology	15
Total for a Major	31

For a Minor in Sociology:

Sociology 170 or 205, 201, 203, 305	12
Additional advanced credit in sociology	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
One additional course in geography to be selected from:	
241, 320, 331, or 383	3
Six hours elective from any of the social science	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 the First Major in Economics and Sociology

FRESHMAN YEAR

First Semester		Second Semester	
Eng. 101—Speaking and Writing	3	Eng. 102—Speaking and Writing	3
P. E. 100a—Orientation in Phys. Ed.	½	P. E. 100b—Orientation in Phys. Ed.	½
Freshman Orientation	1	Ed. 100—Orientation in Education	1
Soc. 170—Rural Sociology	3	Soc. 201—Introductory Sociology	3
Ec. 149—Economic History of the U. S.	3	Sci. 102—Int. to Biological Science	3
Sci. 101—Int. to Biological Science	3	or	
or	3	Sci. 104—Int. to Physical Science	3
Sci. 103—Int. to Physical Science		Second Major	3
P. E. 104—Personal Hygiene	2	Core Curriculum	3
	<hr/> 15½		<hr/> 16½

SOPHOMORE YEAR

First Semester		Second Semester	
Eng. 201—Introduction to Literature	3	Eng. 202—Introduction to Literature	3
P. E. —Activity Course	$\frac{1}{2}$	P. E. —Activity Course	$\frac{1}{2}$
Ec. 201—Principles of Economics	4	Ec. 202—Economic Problems	2
Sci. 103—Int. to Physical Science		Sci. 104—Int. to Physical Science	3
or		or	
Sci. 101—Int. to Biological Science	3	Sci. 102—Int. to Biological Science	3
Ed. 210—Human Growth and Development I	3	Ed. 211—Human Growth and Development II	3
Second Major	3	Second Major	6
	<hr/>		<hr/>
	16 $\frac{1}{2}$		17 $\frac{1}{2}$

JUNIOR YEAR

First Semester		Second Semester	
Ec. 339—Economic History of Europe	3	Ed. 472—Fund. of Secondary Education	4
or		Ec. 302—Labor Problems	
Soc. 305—Cultural Anthropology	2	or	
P. E. 285—Community Recreation	6	Ec. 304—Marketing	3
Second Major	3	or	
Core Curriculum	3	Soc. 384—World Religions	
*Elective	3	or	
	<hr/>	Soc. 405—General Anthropology	3
	17	Second Major	3
		Core Curriculum	3
		*Elective	4
			<hr/>
			17

SENIOR YEAR

First Semester		Second Semester	
Ed. 375—Student Teaching	4	Ed. 475—Student Teaching	4
Ec. 441—Public Finance		Ec. 442—Money and Banking	
or		or	
Ec. 443—Investments		Ec. 483—Devel. of Economic Thought	3
or		or	
Soc. 401—Criminology	3	Soc. 410—Studies in Basic Cultures	
or		or	
Soc. 403—The Family	3	Soc. 450—Social Philosophy	3
Second Major	4	Hist. 400—American Foundations	1
*Elective		Social Science Seminar	3
	<hr/>	*Elective	
	14		<hr/>
			14

*Consider Core Curriculum requirements when selecting these courses. A minimum of three hours of this elective work must be in 300 and/or 400 courses.

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. Four 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. Two 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 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 302. Labor Problems. Three hours.

Prerequisite: Economics 201 or 202 or upper division standing.

Organized labor; labor legislation; the capitalistic regime; economic inequality; standards of living; industrial conflicts; state control and regulation.

Economics 304. Marketing. Three hours.

Prerequisite: Economics 201.

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

Economics 325. Economics for Teachers. Three hours.

((Offered only by extension. Should not be taken by a student who has credit for Economics 201.)

The principles of production, emphasizing types of business organization; consumption, stressing price and price making mechanisms; distribution, accenting personal shares of the total income; various problems of money, labor, and democracy versus the many "isms."

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 prior to the Second World War.

Economics 441. Public Finance. Three hours.

Prerequisite: Economics 201.

Public expenditures; public revenues; taxation; public credit; financial administration of government.

Economics 442. 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 443. 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 483. Development of Economic Thought. Three hours.

Prerequisite: Open to senior majors in economics and sociology.

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.

Organization and pattern of rural society; effects of rural conditioning on the individual; isolation, mobility, and migration as factors in the rural process; rural social change and social control; the farm family; the rural school; church and government in rural life; problems of farm youth; rural health and sanitation; economic aspects of rural areas; the role of government agencies; cooperative movements; rural pathology; welfare movements.

Sociology 201. Introductory Sociology. Three hours.

Man the animal; heredity versus environment; culture; classification of social groups; social institutions; social change; social control; social processes; social pathology.

Sociology 203. Contemporary Social Problems. Three hours.

Problems concerning environment; wealth, poverty; population; mental efficiency; race; the family; child welfare; public opinion; crime and delinquency; and 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 302. Population Problems. Two hours.

Population theories; reproductive behavior; differential birth rate; determinants of length of life; sex, age and race in population composition; socio-cultural factors in distribution of population; internal and international migration; national population policy.

Sociology 305. 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 351. Social Organizations. Two hours.

Principles of grouping; economic determinism; kinship; marriage; property; law; descent groups; social strata; clubs and societies; the state; social organizations in action.

Sociology 354. Social Psychology. Three hours.

Animal social psychology; 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 384.—World Religions. Three hours.

Religions of primitive peoples; religions of Egypt and Babylonia; religions of India; Confucianism; Taoism; Shinto; Zoroastrianism; Judaism; Christianity; Mohammedanism; comparative religions.

Sociology 401. 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 402. Immigration Processes and Minority Groups. Three hours.

Immigration legislation; Old and New Immigration; American Negro; minority groups; racial and cultural conflicts; acculturation, assimilation and integration of the immigrant.

Sociology 403. The Family. Three hours.

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

Sociology 405. General Anthropology. Three hours.

Physical development of man; problems of race; critical treatment of racial and linguistic classifications; culture centers of the Old and the New Worlds and their influence on contemporary and later civilization; specific problems in independent invention, diffusion, and convergence; archaeological discovery. Recommended as basic to all social sciences.

Sociology 410. Studies in Basic Cultures. Three hours.

Cultures of Egypt, Babylonia, Assyria, Palestine, India, China, Greece, Rome, and others. Application of analyses to western cultures and civilizations. At the option of the class any one of these cultures may be selected for study for an entire semester thus giving greater insights into the particular configuration studied, or the class may desire to study a number of cultures with less intensity.

Sociology 450. Social Philosophy. Three hours.

Social philosophies of Plato, Aristotle; Roman and Medieval thinkers; influence of the church; early modern philosophies; Voltaire and Rousseau; German thinkers: Kant, Hegel, Nietzsche; racial, economic and geographical philosophies; Comte, Spencer, Ward; contemporary social thought.

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.

EDUCATION

Mrs. Anderson	Mr. McShea	Miss Smelley
Mrs. Blair	Miss Minish	Mr. Tant
Mrs. Day	Miss Moore	Mr. Walter
Mr. Denney	Miss Nollau	Mrs. Whitaker
Miss Evans	Miss Palmquist	Mr. Wicker
Mrs. Graves	Miss Range	Mr. George Young
Mr. Lappin	Mrs. Rice	
Mr. McMillian	Mr. Roberts	

OBJECTIVES:

1. To aid students in developing a clear understanding of growing boys and girls.
2. 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.
3. To discover and encourage the best possible candidates for preparation as teachers.

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

For the Provisional Elementary Certificate:	Sem. Hrs.
Education 100, 210, 211, 227, 321, 326, 333, 325, 420,	
425	32

For the Provisional High School Certificate:	
Education 100, 210, 211, 375, 472, 475	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—Speaking and Writing	3	Eng. 102—Speaking and Writing	3
P. E. 100a—Orientation in Phys. Ed.	½	P. E. 100b—Orientation in Phys. Ed.	½
Freshman Orientation	1	Ed. 100—Orientation in Education	1
Sci. 101—Int. to Biological Science	3	Sci. 102—Int. to Biological Science	3
or		or	
Sci. 103—Int. to Physical Science	3	Sci. 104—Int. to Physical Science	3
Mus. 100—Rudiments of Music	3	Art 121—Public School Art	3
or		or	
Art 121—Public School Art	3	Mus. 100—Rudiments of Music	3
Hist. 131—History of Civilization	3	Hist. 132—History of Civilization	3
P. E. 104—Personal Hygiene	2	Soc. 170—Rural Sociology	3
	15½		16½

SOPHOMORE YEAR

First Semester		Second Semester	
P. E. —Activity course	½	P. E. —Activity Course	½
Ed. 210—Human Growth and Development I	3	Ed. 211—Human Growth and Development II	3
Ec. 201—Principles of Economics	4	Ed. 227—Literature for Children	3
Sci. 103—Int. to Physical Science	3	Sci. 104—Int. to Physical Science	3
or		or	
Sci. 101—Int. to Biological Science	3	Sci. 102—Int. to Biological Science	3
F. A. 160—Appreciation of the Fine Arts	3	Geog. 100—Fundamentals of Geography	3
Ag. 101—General Agriculture	3	Sp. 280—Basic Speech	3
		Mus. 221—Music for the El. Teacher	2
		or	
		Art 221—Advanced Public School Art	
	16½		17½

JUNIOR YEAR

First Semester		Second Semester	
Ed. 326—Teaching of Reading	3	Ed. 321—Teaching of Arithmetic	3
Ed. 333—Fund. of Elem. Education	4	Geog. 300—Regional Geog. for El. Teachers	3
Art. 221—Advanced Public School Art	2	H. E. 302—Nutrition for El. Teachers	2
or		P. E. 320—Games for Elementary Schools	2
Mus. 221—Music for the El. Teacher	3	Eng. —Advanced Elective	3
Dram. 283—Elementary Dramatics	3	Science Elective	3
P. S. 241—Government of the U. S.	2		
*Elective	2		
	17		16

SENIOR YEAR

First Semester		Second Semester	
Ed. 325—Student Teaching	4	Ed. 425—Student Teaching	4
Hist. 400—American Foundations	3	Ed. 420—Prin. and Prac. in El. Educ.	4
Eng. —Advanced Elective	3	*Elective	6
*Elective	5		
	15		14

*A minimum of 5 hours of the elective work must be in 300 and/or 400 courses.

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; intelligence and individual differences; mental growth, intelligence tests, and methods of testing; applications of the various psychological theories.

Education 210. Human Growth and Development I. Three hours. (Required of all candidates for certification.)

This course deals with the physical, social, emotional, and intellectual growth and development of children and adolescents.

Education 211. Human Growth and Development II. Three hours. (Required of all candidates for certification.)

Prerequisite: Education 210.

A continuation of Education 210.

Education 227. Literature for Children. Three hours. (Also Library Science 227).

Prerequisite: English 102.

Includes the periods of story-interests; literature for each period including myths, legends, folklore, etc.; correlation of literature with other school subjects; and methods of presenting literature that will give enjoyment to children and develop appreciation. Extensive reading of the literature and observation lessons in the Training School are required.

Education 320. Improvement of Instruction in the Elementary School. Three hours. (Offered only by extension.)

Prerequisite: Experience as a teacher.

Emphasizes the cooperative building of a school philosophy and the accompanying objectives of education; cooperative and self-supervision of instruction; selection of supplementary materials and problems of curriculum organization; effective staff relationships; and pertinent problems concerning instruction and management.

Education 321. Teaching of Arithmetic. Three hours.

Essential concepts of the subject; effective presentation of number material to the learner; necessary drills to insure competency in the fundamental computational skills; emphasis on functional arithmetic.

Frequent observations are required in order to evaluate the best modern teaching practices.

Education 325. Supervised Student Teaching. Four hours.

Prerequisites: a. The attainment of a scholastic standing of one or "C" in all courses completed at the time student teaching begins; b. completion of the professional education courses prerequisite to student teaching—Education 100, 210, 211, 227, 321, 326, and 333—; c. completion of a minimum of 90 semester hours of work; d. at least one semester of residence credit earned at this college; and e. permission of the Committee on Teacher Training.

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. Teaching may be done in any of the elementary grades.

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 each student is assigned a three-hour block. Only those students who have had teaching experience are permitted to do student teaching during a summer term.

Education 326. Teaching of Reading. Three hours.

Motivation of reading; mechanics of reading; special methods; diagnosis and treatment of difficulties; psychological investigations of reading; and the relationship of reading ability to success in other subjects.

Education 333. Fundamentals of Elementary Education. Four hours.

The purpose and origin of the elementary school; problems of school organization, management, extra-curricular and community relationships; testing and record keeping; guidance and counseling of elementary pupils; methods of teaching the social studies, science, elementary art and music, health and recreation, and language arts. Systematic observation of all phases of instruction is an integral part of the course.

Education 356. Guidance and Counseling. Three hours.

Prerequisite: Education 210 and 211 or the equivalent.

History and development of the guidance movement; techniques of effective guidance; the place of the specialist in the guidance program; guidance service of the homeroom teacher; the dean of boys and dean of girls as guidance workers; present status and evaluation.

Education 360. History of Education. Three hours.

Education in ancient, medieval, and modern periods; early American backgrounds; early campaigns for the improvement of instruction and teacher training; the development of present practices; great educators of each period and their contributions.

Education 374. Improvement of Instruction in the Secondary School. Three hours. (Offered only by extension.)

Prerequisite: Experience as a teacher.

Emphasizes the cooperative building of a school philosophy and the accompanying objectives of education; cooperative and self-

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

Education 375. Supervised Student Teaching. Four hours.

Prerequisites: a. The attainment of a scholastic standing of one or "C" in all courses completed at the time student teaching begins; b. a minimum standing of 1.5 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 Training.

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 381. 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 382. 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 383. Educational Statistics. Three hours.

Scope and limitations of statistical data; frequency distributions and tabulations; measurements of central tendency, dispersion, and relationship; graphical representation.

Education 389. Extra-Curricular Activities. Two hours.

The objectives of the extra-curricular program; principles of administration and control; organizing and sponsoring student participation activities, publications, assemblies, clubs, and entertainments.

Members of the class are expected to make a detailed study of one activity.

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. Student Teaching. Four hours.

A continuation of Education 325.

Education 427. Diagnostic and Remedial Techniques. Three hours.

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

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 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 482. Seminar in Audio-Visual Aids. Two hours.

Prerequisite: Education 382.

Intensive study of selected problems in the field of audio-visual education.

Education -80. Problems in Rural Education. Three to six hours.

(Offered only by extension.)

This course is designed to meet the specific needs of the students who enroll, particularly of in-service teachers. Problems and activities are selected according to the conditions prevailing in the local school system.

GRADUATE COURSES

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

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

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 528, 530, 540, 560, 571, 580, 584, 590, 591	23
To be selected with the approval of the student's committee	7
Minimum for the degree	30

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

*Required: Education 359 or 381, 520 or 570, 530, 560, 571, 580, 590, 594	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 supervision:

*Required: Education 381 or 557, 427, 530, 540, 554 or 580, 560, 571, 590	21
To be selected with the approval of the student's committee	9
Minimum for the degree	30

The A.M. in Education for elementary teaching:

*Required: Education 520, 523, 526, 530, 571, 580, 590	16
The remainder of the work is selected with the approval of the student's graduate committee	14
Minimum for the degree	30

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

*Required: Education 530, 570, 571, 580, 590	12
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	18
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.

Education 520. Research Problems in Elementary Education. Three hours.

Prerequisite: Education 590.

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 523. Learning in the Elementary School. Two hours.

Mental growth as a dynamic process of interaction between the individual and his environment; constructive analyses of the elementary teacher's problems in the light of psychological insight and knowledge; research and its implications for thinking and planning in the elementary field.

Education 526. Investigations in Reading. Two hours.

Prerequisite: Education 326 or the equivalent.

Review of current literature in the field; reports on selected topics; and techniques available for the scientific study of reading problems.

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 554. Psychology of Learning. Three 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. Three 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. Abnormal Psychology. Three hours.

Prerequisite: Six hours in psychology.

The limits of normal and abnormal behavior; pattern behavior encountered in organic and functional cases of mental deterioration, e.g., paresis, alcoholism, drug addicts, manic-depressives, Schizophrenics, anxiety neuroses, and psychopaths.

Education 557. Mental Measurements. Three 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 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. Three hours.

Prerequisite: Education 590.

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 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 590. Research Methods in Education. Two hours.

Selection, delimitation, and statement of a research problem; techniques in bibliography building; methods of organization; recognized methods of investigation; and style-standards for research writing.

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. Miles
Mr. Banks

Miss Bizzoni
Mr. Long

Mr. McConkey
Mr. Covington

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 clearly and 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 in the secondary schools.
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 and 102	6
English 201 and 202 (with certain exceptions)	6

For a Major: (In addition to English 101 and 102)

English 202 and 294	6
Advanced courses approved by the department	18
Total for a Major	30

For a Minor: (In addition to English 101 and 102)

English 202 and 294	6
Advanced courses approved by the department	12
Total for a Minor	24

For an Area of Concentration: (In addition to English 101 and 102)

English 202 and 294	6
Advanced courses approved by the Department	15
One foreign language	12
Dramatics, speech, or journalism	9
Total for an Area of Concentration	48

Recommendations for Students Who Are Not Majoring in English:

1. Students who read well are advised to omit English 201 and begin their study of literature with English 202. If this is done, English 202 should be followed with English 294 or an advanced course.
2. Students qualifying for the Provisional Elementary Certificate should enroll for the six hours required in literature during the junior or senior years. They should elect upper-division courses unless advised differently by the department.

Recommendations for Students Majoring in English:

1. Students majoring in English should read the pamphlet prepared by the department—"What the Public Expects of an English Major."

2. If qualifying for a certificate, the English major should enroll for 12 hours of literature in the junior year. Student teaching in the senior year may thereby be handled more effectively.

THE WRITING LABORATORY

To encourage all students to consult with members of the faculty on matters of mechanics and organization of manuscripts, the college maintains a Writing Laboratory under the direction of the English staff. The aim is to give assistance to those working on a manuscript for a definite purpose, and more especially to give extra help to those whose weakness in self-expression endangers their college standing.

Members of the faculty have the right to refer to the Laboratory a student whose performance in written or spoken English weakens his standing in any course.

THE SPEECH LABORATORY

A Speech Laboratory is operated in connection with English 101 and 102 and is available to all students who wish to overcome speech faults that detract from the impressions they make on other people.

Recording machines are used so that one may hear how he sounds to other people. After a speech analysis, exercises are prescribed to give clarity, flexibility, and quality to the voice as needed.

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 the First Major in English

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	Ed. 100—Orientation in Education	1
Hist. 131—History of Civilization	3	Hist. 132—History of Civilization	3
Sci. 101—Int. to Biological Science		Sci. 102—Int. to Biological Science	
or	3	or	3
Sci. 103—Int. to Physical Science		Sci. 104—Int. to Physical Science	
Foreign Language	3	Foreign Language	3
P. E. 104—Personal Hygiene	2	Second Major	3
*Elective	2		
	<hr/> 17½		<hr/> 16½

SOPHOMORE YEAR

First Semester		Second Semester	
Eng. 202—Int. to Literature	3	Eng. 294—Literature for Writers	3
P. E. Activity Course	$\frac{1}{2}$	P. E. Activity Course	$\frac{1}{2}$
Ed. 210—Human Growth and Development I	3	Ed. 211—Human Growth and Development II	3
Sci. 103—Int. to Physical Science	3	Sci. 104—Int. to Physical Science	3
or	3	or	3
Sci. 101—Int. to Biological Science	3	Sci. 102—Int. to Biological Science	3
Foreign Language	3	Foreign Language	3
Second Major	3	Second Major	3
*Elective	2	P. E. 285—Community Recreation	2
	<hr/> 17 $\frac{1}{2}$		<hr/> 17 $\frac{1}{2}$

JUNIOR YEAR

First Semester		Second Semester	
Eng. —Advanced Literature	6	Ed. 472—Fund. of Secondary Educ.	4
Social Science	3	Eng. —Advanced Literature	6
Second Major	6	Second Major	3
*Elective	2	*Elective	3
	<hr/> 17		<hr/> 16

SENIOR YEAR

First Semester		Second Semester	
Ed. 375—Student Teaching	4	Ed. 475—Student Teaching	4
Eng. —Advanced Literature	3	Eng. —Advanced Literature	3
Second Major	3	Second Major	3
*Elective	4	Hist. 400—American Foundations	3
	<hr/> 14		<hr/> 13

*Consider Core Curriculum requirements when selecting these courses.

**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
P. E. 100a—Orientation in Phys. Ed.	$\frac{1}{2}$	P. E. 100b—Orientation in Phys. Ed.	$\frac{1}{2}$
Freshman Orientation	1	Ed. 100—Orientation in Education	1
Hist. 131—History of Civilization	3	Hist. 132—History of Civilization	3
Sci. 101—Int. to Biological Science	3	Sci. 102—Int. to Biological Science	3
or	3	or	3
Sci. 103—Int. to Physical Science	3	Sci. 104—Int. to Physical Science	3
P. E. 104—Personal Hygiene	2	Sp. 182—Voice and Diction	3
Foreign Language	3	Foreign Language	3
Elective	2		
	<hr/> 17 $\frac{1}{2}$		<hr/> 16 $\frac{1}{2}$

SOPHOMORE YEAR

First Semester		Second Semester	
Eng. 202—Int. to Literature	3	Eng. 294—Literature for Writers	3
P. E.—Activity Course	$\frac{1}{2}$	P. E.—Activity Course	$\frac{1}{2}$
Sci. 103—Int. to Physical Science	3	Sci. 104—Int. to Physical Science	3
or	3	or	3
Sci. 101—Int. to Biological Science	3	Sci. 102—Int. to Biological Science	3
Ed. 210—Human Growth and Development I	3	Ed. 211—Human Growth and Development II	3
Foreign Language	3	Foreign Language	3
Dr. 283—Elementary Dramatics	3	Social Science	3
Elective	2	P. E. 285—Community Recreation	2
	<hr/> 17 $\frac{1}{2}$		<hr/> 17 $\frac{1}{2}$

JUNIOR YEAR

First Semester		Second Semester	
Eng.—Advanced Literature	3	Ed. 472—Fund. of Secondary Edu.	4
Eng 380—Int. to Journalism	3	Eng.—Advanced Literature	3
*Elective	10	Sp. 381—Speech for Teachers	3
		*Elective	6
	<hr/> 16		<hr/> 16

SENIOR YEAR

First Semester		Second Semester	
Ed. 375—Student Teaching	4	Ed. 475—Student Teaching	4
Eng.—Advanced Literature	3	Hist. 400—American Foundations	3
*Elective	7	Advanced Literature	3
		*Elective	3
	<hr/> 14		<hr/> 13

*Consider Core Curriculum requirements when selecting these courses. At least 10 hours of this work must be in 300 and/or 400 courses.

DESCRIPTION OF COURSES

Courses in Communications

English 101. Writing and Speaking. Three hours.

The course content is largely the experience the individual brings to the class from his own observation and study. The reading is designed to stimulate one's own ideas and imagination. Although a part of class work, the chief responsibility for mechanics and vocabulary building belongs to each student out of class. Regular conferences are a part of the course.

English 102. Writing and Speaking. Three hours.

A continuation of English 101 with more emphasis on supporting one's opinions and experience with information drawn from interviews and books; organizing such material convincingly. Regular conferences are a part of the course.

Courses in Literature and Writing

English 201. Introduction to Literature. Three hours.

Prerequisite: English 101 and 102.

Various types of literature including fiction, poetry, and drama; both rapid and careful reading; written and oral reports. Occasional conferences required.

English 202. Introduction to Literature. Three hours.

Prerequisite: English 201.

A continuation of English 201. More extensive and purposeful reading.

English 294. Literature for Writers. Three hours. (Required for English majors and available to a limited number of other students for literature credit.)

Prerequisite: English 202.

Selected readings that serve well as models and incentives for writing; writing in forms of special interest to the individual as short fiction, poetry, drama, feature stories, and critical papers.

English 331. Classical Writers. Three hours.

Prerequisite: English 202.

The popular essayists, as Addison and Goldsmith; comedy of manners—Congreve and Sheridan; satire and humor—Swift and Fielding; engaging personalities—Pope and Johnson.

English 332. Romantic Writers. Three hours.

Prerequisite: English 202.

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

English 333. Victorian Writers. Three hours.

Prerequisite: English 202.

The poets, as Tennyson and Browning; other writers, as Carlyle and Arnold.

English 341. American Writers Before 1850. Three hours.

Prerequisite: English 202.

Colonial Americans, as Bradford, Byrd, and Franklin; the nationalists, as Irving and Cooper; self-examination, as found in Hawthorne and Emerson.

English 342. American Writers Since 1850. Three hours.

A continuation of English 341. Major writers of prose and poetry, with emphasis on Whitman and Mark Twain.

English 363. History of the Theatre. Three hours.

The outstanding dramas from the time of Greece to the present.

English 367. The Bible as Literature. Three hours.

Selected poems, narratives, fables, dramas, biographies, and sermons; the background of Jewish history; the influence of the Bible on our thought and literature.

English 370. Literary Backgrounds. Three hours. (Formerly English 480, Integrating Survey.)

Periods and representative writers not previously studied by members of the class.

English 380. Introduction to Journalism. Three hours.

Prerequisite: Permission of the instructor.

News gathering; news writing; feature writing; seeing the newspaper through the press. (Not accepted as credit in literature.)

English 391. Practical Writing. Three hours.

Topics: The use of one's own knowledge and special interests as subject-matter; work on manuscripts being prepared for a definite purpose; attention to mechanics and organization of material as needed; the use of creative devices as a means of gaining interest. (Accepted as credit in literature if the writing and reading are in literature.)

English 434. Fiction. Three hours.

Long and short fiction of our time; some reading of older novels.

English 435. Shakespeare. Three hours.

The plays as literature and as plays; selected tragedies, comedies, and histories.

English 444. Kentucky Literature and Folklore. Two hours.
(Formerly English 344).

Significant novels, plays, and poems by Kentucky writers from James Lane Allen and Madison Cawein to Elizabeth Maddox Roberts and Jesse Stuart. Also Kentucky ballads and folklore.

English 451. The English Lyric. Three hours.

Topics: Successful and favorite poems from all periods, with emphasis on recent writers.

English 453. Modern Drama. Three hours.

Outstanding European and American dramas.

English 490. Writer's Workshop. Three hours. (Formerly English 390).

Practice in sustained writing; discussion of original manuscripts; study of successful writers; marketing manuscripts.

English 501. Advanced Reading in English I. Three hours.

Prerequisite: Graduate standing.

The purpose of this course is to meet the needs of graduate students who wish to do additional work in English. The content will be determined by the department with the advice of the student's graduate committee.

English 502. Advanced Reading in English II. Three hours.

Prerequisite: English 501.

A course similar to English 501 but involving different reading materials.

SPEECH AND DRAMATICS

REQUIREMENTS:

<i>For a Minor in Speech:</i>	Sem. Hrs.
Speech 182, 280, 281 and 284.....	12
Elective from Speech 381 or 481.....	3
Elective from Speech 301 or Dramatics 283.....	3
Minimum for a Minor.....	18
<i>For a Minor in Dramatics (English Majors):</i>	
Speech 182 and 284	6
Dramatics 283, 383 and 483	9
Elective in Dramatics	3
Minimum for a Minor.....	18
<i>For a Minor in Dramatics (Non-English Majors):</i>	
Speech 182 and 284	6
Dramatics 283 and 383	6
English 363, 435 or 453	3
Elective in Dramatics	3
Minimum for a Minor.....	18

DESCRIPTION OF COURSES

Speech 182. Voice and Diction. Three hours.

Group and individual exercises for improving vocal quality—pitch, intensity, variety—and the correction of minor vocal irregularities; phonetics and mechanics of the vocal apparatus. Two class periods and two hours of laboratory per week.

Speech 280. Basic Speech. Three hours.

Materials and methods of informative and persuasive speaking, public discussion and oral reading; practice in gathering and organizing subject matter. Two class periods and two hours of laboratory per week.

Speech 281. Public Speaking. Three hours.

Prerequisite: Speech 280.

Analysis and delivery of various types of speeches; organization, phrasing and diction; preparation and delivery of speeches; and reading on current topics of general interest as a basis for discussion. Two class periods and two hours of laboratory per week.

Speech 284. Voice Development. Three hours.

Prerequisites: English 102 and sophomore standing.

Flexibility, musical quality, clarity, audibility and interpretation of prose, poetry and dramatic literature; choral speaking and

reading; types of materials and arrangements suitable for speech choirs; practical training with a public performance by the class. Two class periods and two hours of laboratory 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. One class period and four hours of laboratory per week.

Speech 381. Speech for Teachers. Three hours.

Prerequisites: English 102 and a minimum of one year of teaching experience. Advanced undergraduates may enroll for the course provided they have completed, or are currently enrolled for their work in student teaching.

Speech irregularities found in general school populations; classroom procedures for speech courses; contest work in speech; selections for practice and performance in the various speech events.

Speech 481. Speech Problems. Three hours.

Prerequisite: Permission of the instructor.

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

Dramatics 283. Elementary Dramatics. Three hours.

Problems of staging under circumscribed conditions; minimum essentials of play production; organization; scenery, properties, costuming; and play selection. Two class periods and two laboratory hours per week.

Dramatics 285. Make-Up for the Stage. One hour.

Straight and character make-up. Recommended for all teachers who may have work in dramatics assigned to them. Two laboratory hours per week.

Dramatics 286. Dance for the Theater. One hour.

Designed to develop poise and grace of bodily movement in everyday situations as well as on the stage. Modern dance technique and composition. Leotards required. Three laboratory hours per week.

Dramatics 300. Workshop in Dramatics. Two hours.

(Offered only during the Summer Term.)

Prerequisite: Permission of the instructor. Some experience in the field of dramatic art is presupposed.

Topics will vary according to the needs of the registrants. Students are encouraged to work on individual problems in addition to the consideration of basic techniques.

Dramatics 383. Staging Techniques. Three hours.

Prerequisite: Dramatics 283 or equivalent training.

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

Dramatics 385. Playwriting and Production. Three hours.

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

Dramatics 387. Children's Theatre. Three hours.

Prerequisite: Dramatics 283 or equivalent training.

Concentrated study of problems of organization and production for and with children; practical assignments.

Dramatics 483. Problems in the Theatre. Three hours.

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

Special research and survey projects in any phase of theatre work.

Dramatics 485. Problems in Playwriting. Three hours.

Prerequisites: Dramatics 385 and permission 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 finish an acceptable full-length play or equivalent work in the one-act form.

MODERN FOREIGN LANGUAGES

OBJECTIVES:

1. To serve the practical needs of students who intend to teach these languages, to travel, to meet entrance requirements of the professional schools, or to do graduate work.
2. To promote cultural development by introducing students to the rich field of foreign literatures and cultures.
3. To help students understand foreign peoples—a most important item in the foreign policy of the United States and our relations with other nations.

REQUIREMENTS:

<i>For a Major in French:</i>	Sem. Hrs.
French 101, 102, 201, 202, and 306	15
Three courses selected from French 432, 433, 434, or 435..	12
Total for a Major in French	27

For a Minor in French:

French 101, 102, 201, 202, and 306	15
One advanced course in French Literature	4
Total for a Minor in French	19

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

Essentials of grammar; drill in pronunciation; conversation; reading; the geography of France; interesting aspects of French life.

French 102. Beginning French. Three hours.

This course is a continuation of French 101.

French 201. Intermediate French. Three hours.

Reading of simple to average French prose; conversation and dictation; expanded views of French civilization; articles from current periodicals; special reports.

French 202. Intermediate French. Three hours.

This course is a continuation of French 201.

French 305. French Conversation and Composition. Three hours.

To help students, especially prospective teachers and those who expect to travel, acquire the ability of writing and speaking simple French.

French 306. Rapid Reading. Three hours.

Outstanding prose works of the 19th and 20th centuries.

French 432. French Literature of the 17th Century. Four hours.

Prerequisites: French 101, 102, 201, 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 433. French Literature of the 18th Century. Four hours.

Prerequisites: The same as those listed for French 432.

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

French 434. French Literature of the 19th Century. Four hours.

Prerequisites: The same as those listed for French 432.
Novels, dramas, and poems by outstanding writers.

French 435. Modern French Writers. Four hours.

Prerequisites: The same as those listed for French 432.
Selected works of Brieux, Hervieux, France, Materlink, Rostand, Rolland, Gide, Proust, Estaunie, Regnier, and others.

SPANISH

Spanish 101. Beginning Spanish. Three hours.

Essentials of grammar; drill in pronunciation, conversation, and reading.

Spanish 102. Beginning Spanish. Three hours.

This course is a continuation of Spanish 101.

Spanish 201. Intermediate Spanish. Three hours.

Modern Spanish prose; some aspects of Latin America.

Spanish 202. Intermediate Spanish. Three hours.

This course is a continuation of Spanish 201.

GERMAN

German 101. Beginning German. Three hours.

Pronunciation, essentials of grammar, and vocabulary building based on readings selected for their idiomatic qualities.

German 102. Beginning German. Three hours.

A continuation of German 101. Stress on reading and conversation. Additional attention to grammar and German civilization and culture.

German 201. Intermediate German. Three hours.

Grammar review and conversation based on modern readings of literary value. The course is conducted in German.

German 202. Intermediate German. Three hours.

A continuation of German 201.

F.L. 300 Phonetics 1 Hr.
F.L. 301 " 1 Hr.

GEOGRAPHY AND GEOLOGY

Miss Wilkes

Miss Braun

OBJECTIVES:**A. In Geography**

1. To provide competent instruction in geography so that elementary teachers may be able to treat the subject effectively.
2. To offer a field of major study for those students who wish to become teachers of geography or who expect to do graduate work in the field.
3. To contribute to the development of well-rounded teachers for the social studies.
4. To make a contribution to the general background and cultural development of all students.

B. In Geology

To give the student a knowledge of the physical structure of the earth, with the changes it has undergone, and the causes which have produced these changes.

REQUIREMENTS:

<i>For a Major:</i>	Sem. Hrs.
Geography 100, 211, 241, 460, 471, 475, and Geology 100	19
Elective in geography	9
Total for a Major	28

<i>For a Minor:</i>	
Geography 100, 241, 475, and Geology 100	12
Elective in geography	6
Total for a Minor	18

<i>For an Area Major in Social Science:</i>	
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 selected from:	
241, 320, 331, or 383	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 the First Major
in Geography and Geology**

FRESHMAN YEAR

First Semester		Second Semester	
Eng. 101—Speaking and Writing	3	Eng. 102—Speaking and Writing	3
P. E. 100a—Orientation in Phys. Ed.	$\frac{1}{2}$	P. E. 100b—Orientation in Phys. Ed.	$\frac{1}{2}$
Freshman Orientation	1	Ed. 100—Orientation in Educ.	1
Geog. 100—Fundamentals of Geography	3	Geog. 211—Economic Geography	3
Sci. 101—Int. to Biological Science	3	Sci. 102—Int. to Biological Science	3
or		or	
Sci. 103—Int. to Physical Science	3	Sci. 104—Int. to Physical Science	3
P. E. 104—Personal Hygiene	2	Geol. 100—General Geology	3
Second Major	3	Second Major	3
*Elective	2		
	<hr/> 17½		<hr/> 16½

SOPHOMORE YEAR

First Semester		Second Semester	
Eng. 201—Int. to Literature	3	Eng. 202—Int. to Literature	3
P. E.—Activity Course	$\frac{1}{2}$	P. E.—Activity Course	$\frac{1}{2}$
Ed. 210—Human Growth and Development I	3	Ed. 211—Human Growth and Development II	3
Sci. 103—Int. to Physical Science	3	Sci. 104—Int. to Physical Science	3
or		or	
Sci. 101—Int. to Biological Science	3	Sci. 102—Int. to Biological Science	3
Geog. 241—North America	3	Econ. 201—Principles of Economics	4
Foreign Language	3	Foreign Language	3
P. E. 285—Community Recreation	2		
	<hr/> 17½		<hr/> 16½

JUNIOR YEAR

First Semester		Second Semester	
Geog. 331—Europe	3	Ed. 472—Fund. of Secondary Edu.	4
or		Geog. 320—South America	3
Geog. 460—Historical Geography of U. S.	3	Foreign Language	3
Second Major	6	Second Major	3
Foreign Language	3	*Elective	4
Geog. 320—South America	3		
*Elective	2		
	<hr/> 17		<hr/> 17

SENIOR YEAR

First Semester		Second Semester	
Ed. 375—Student Teaching	4	Ed. 475—Student Teaching	4
Geog. 475—Meth. and Mat. in Teaching Geog.	3	Geog. 344—Kentucky	3
American Foundations	3	or	
Second Major	3	Geog. 380—Int. to Field Geography	6
	<hr/> 13	Second Major	6
			<hr/> 13

*Consider Core Curriculum requirements when selecting these courses.

DESCRIPTION OF COURSES

GEOGRAPHY

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 and of selected resources.

Geography 211. Economic Geography. Three hours.

Significant crops in low and middle latitudes; development of mining and manufacturing in major areas; world commerce and chief trade routes.

Geography 241. North America. Three hours.

Major geographic regions of North America, their economic development and interpretation of this development.

Geography 251. Middle America. Three hours.

Geographic development of Mexico, Central America, and the islands of the Gulf and Caribbean.

Geography 280. Australia. Two hours.

Prerequisite: Geography 100.

Location of Australia, the climatic regions, physiographic regions; plant and animal life; mineral resources; human activities in relation to the various physical conditions.

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

Prerequisite: Geography 100.

Nature of regional geography; selection and presentation of suitable materials; principal regions of North America, South America, Europe, and Asia. Study of these continents in as much detail as possible in one semester, correlated with materials in the state-adopted textbooks.

Geography 320. South America. Three hours.

Prerequisites: Geography 100 and 241.

South American countries, their resources and developments. Special attention will be given to the relations of this continent with the United States.

Geography 331. Europe. Three hours.

Prerequisites: Geography 100 and 241.

Economic developments within the principal countries; geographic interpretation of current European affairs.

Geography 344. Kentucky. Three hours.

Prerequisite: Three hours credit in geography or experience in teaching.

The situation of Kentucky with respect to adjacent states; a detailed study of the climate, the geologic regions with the resources of each, the geographic regions; practice in assembling and using materials in teaching; making maps and graphs of data collected; and field work in selected areas.

Geography 360. The South. Three hours.

Prerequisites: Geography 100 or 241. History 241 and 242 are recommended.

Human resources; natural resources and their development; problems of the region; progress of the region.

Geography 380. Introduction to Field Geography. Three hours.

Prerequisites: Geography 100, 211, 241, and 344.

Short field trips adapted to elementary grades; surveys of industrial establishments; detailed studies of specific human activities in selected localities; collection of data for mapping sections of rural or urban areas.

Geography 383. Asia. Three hours.

Prerequisite: Geography 100.

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

Geography 460. Historical Geography of the United States. Three hours.

Prerequisites: Nine hours credit in Geography and History 241 and 242.

A study of ancient trade and trade routes between Asia and Europe; European background leading to discovery and exploration of the Americas; geographic factors underlying the exploration, settlement, and development of the United States; geographic factors leading to the settlement and development of Kentucky.

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 discussion.

Geography 475. Methods and Materials in Teaching Geography. Three hours.

Prerequisite: Nine hours credit in geography.

Purpose and objectives in teaching geography; selection of materials; organization of content at the level of each student's interest.

GEOLOGY

Geology 100. General Geology. Three hours.

A study of the atmosphere in its relation to the modification of the surface of the land; work of running water; action of sub-surface water; origin and work of lakes; development and work of glaciers; the origin and classification of rocks and soils; volcanoes and earthquakes; deformation of the earth's crust; mountain building; minerals; the earth's interior; topographic maps showing work of running water, sinks and karst topography, and mountains. Two lecture-discussion hours and two hours of field or laboratory work 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 hours and two hours of field or laboratory work per week.

HEALTH AND PHYSICAL EDUCATION

Mr. Laughlin

Mr. Johnson

Mrs. Prop

Mr. Radjunas

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:

For all students taking the Provisional High School Certificate:

Activity courses	2
Physical Education 104 and 285	4

For a Major for Men: (In addition to the general requirement listed above)

Physical Education 203, 298, 315, 320, 351, 360, 365, 437, 493, and four hours selected from 295, 375, or 405	25
Elective in activity courses approved by the department	2
Minimum for a Major	33

Book 210-4 *Gen. Zool*
 " 332-4 " *Human Physiology*
 " 336-3 " *Human Anatomy*

*For a Minor for Men: (In addition to the general requirements listed above)

Physical Education 203, 315, 320	6
Elective from Physical Education 295, 298, 375, or 405	6
Elective from Physical Education 351, 360, 437, or 493	5
Elective in activity courses approved by the department	1
Minimum for a Minor	24

For a Major for Women: (In addition to the general requirements listed above)

Physical Education 133, 203, 231, 297, 315, 320, 351, 360, 365, 437, 493	23
Elective in activity courses approved by the department	2
Minimum for a Major	31

*For a Minor for Women: (In addition to the general requirements listed above)

Physical Education 203, 297, 315, 320	9
Elective from Physical Education 351, 360, 437, 493	8
Elective in activity courses approved by the department	1
Minimum for a Minor	24

*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.

Note—In addition to the above requirements all students majoring or minoring in health and physical education must earn credit in Biology 210, 332, and 336.

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 the First Major in Health and Physical Education

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	Ed. 100—Orientation in Education	1
Sci. 101—Int. to Biological Science	3	Hist. 132—History of Civilization	3
Hist. 131—History of Civilization	3	P. E. 298—Officiating and Rules of Games	2
P. E. 104—Personal Hygiene	2	Second Major	3
Second Major	3	P. E. 203—First Aid	2
		Elective	2
	<hr/> 15½		<hr/> 16½

SOPHOMORE YEAR

First Semester		Second Semester	
Eng. 201—Int. to Literature	3	Eng. 202—Int. to Literature	3
P. E.—Activity Course	$\frac{1}{2}$	P. E.—Activity Course	$\frac{1}{2}$
Ed. 210—Human Growth and Development I	3	Ed. 211—Human Growth and Development II	3
Biol. 210—General Zoology	4	P. E. 295—Coaching Basketball	2
P. E. 285—Community Recreation	2	Social Science	3
Second Major	3	Second Major	6
	<hr/>		<hr/>
	15 $\frac{1}{2}$		17 $\frac{1}{2}$

JUNIOR YEAR

First Semester		Second Semester	
P. E.—Activity Course	$\frac{1}{2}$	P. E.—Activity Course	$\frac{1}{2}$
P. E. 365—Mat. and Meth. in Phys. Ed.	2	Ed. 472—Fund. of Secondary Ed.	4
P. E. 375—Coaching Football	2	Biol. 332—Human Physiology	4
P. E. 351—Camp Leadership	2	P. E. 360—Hist. and Prin. of Phys. Ed.	3
Second Major	6	P. E. 320—Plays and Games for Elem. School	2
*Elective	3	Second Major	3
	<hr/>		<hr/>
	15 $\frac{1}{2}$		16 $\frac{1}{2}$

SENIOR YEAR

First Semester		Second Semester	
P. E.—Activity Course	$\frac{1}{2}$	P. E.—Activity Course	$\frac{1}{2}$
Ed. 375—Student Teaching	4	Ed. 475—Student Teaching	4
Biol. 336—Human Anatomy	3	Hist. 400—American Foundations	3
P. E. 437—Therapeutics	3	P. E. 493—Organ. and Adm. of Phys. Ed.	3
P. E. 315—Water Safety	2	P. E. 405—Coaching Baseball and Track	2
Second Major	3	*Elective	3
	<hr/>		<hr/>
	15 $\frac{1}{2}$		15 $\frac{1}{2}$

*Consider Core Curriculum requirements when selecting these courses.

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 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 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. Creative Dancing. 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 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 351. Camp Leadership. Two hours.

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

352 Scouting, two hours

Physical Education 360. History and Principles of Physical Education. Three hours.

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

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 437. Therapeutic Exercises. Three hours.

Prerequisites: Biology 332 and 336.

Common defects of the body and their correction through exercise.

Physical Education 490. 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 493. Organization and Administration of Physical Education. Three hours.

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

SECTIONS FOR MEN AND SECTIONS FOR WOMEN**Physical Education 100a 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 110. Archery. One-half hour.**

Fundamentals of shooting, bending the bow and nocking the arrow; prevention of injury; shooting practice and scoring; point of aim; faults; grouping the arrows; competitive shooting.

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 112. Weight Lifting. One-half hour.**

History and value of weight lifting; exercises for use of weights; techniques required for the activity; development of values.

Physical Education 124. Wrestling. One-half hour.

Rules and correct form in executing fundamental skills of wrestling.

Physical Education 295. Coaching Basketball. Two hours.

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

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 375. Coaching Football. Two hours.

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

Physical Education 405. Coaching Baseball and Track. Two hours.

Fundamentals; individual and team play; organization; educational values of baseball and track.

HISTORY AND POLITICAL SCIENCE

Mr. Rader

Mr. Exelbirt

Mr. Fowler

OBJECTIVES:

A. In History

1. To make the student a better American and a better citizen of the world by introducing him to those significant 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 one of the major fields of learning.
3. To provide basic experiences 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 be thoroughly prepared and 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 its 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. These major divisions are: political institutions, political theory, political dynamics, political techniques, and jurisprudence.

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:

<i>For a Major in History:</i>	Sem. Hrs.
History 131, 132, 241, 242, 331, 332, 471	19
Advanced credit in history	6
Total for a Major	25

<i>For a Minor in History:</i>	
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

<i>For a Major in Political Science:</i>	
Political Science 241, 242, 333, 343, 450, 471	16
Advanced credit in political science	9
Total for a Major	25

<i>For a Minor in Political Science:</i>	
Political Science 241, 242, 343, 450	12
Advanced credit in political science	6
Total for a Minor	18

<i>For an Area Major in Social Science:</i>	
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 selected from:	
241, 320, 331, or 383	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
P. E. 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
Hist. 241—The U. S., 1492-1865	3	Hist. 242—The U. S. Since 1865	3
Sci. 101—Int. to Biological Science		Sci. 102—Int. to Biological Science	
or	3	or	3
Sci. 103—Int. to Physical Science		Sci. 104—Int. to Physical Science	
Geog. 100—Fundamentals of Geog.	3	Soc. 201—Introductory Sociology	3
P. E. 104—Personal Hygiene	2	Core Curriculum	3
	<hr/> 15 1/2		<hr/> 16 1/2

SOPHOMORE YEAR

First Semester		Second Semester	
Eng. 201—Int. to Literature	3	Eng. 202—Int. to Literature	3
P. E.—Activity Course	1/2	P. E.—Activity Course	1/2
Econ. 201—Prin. of Economics	4	Econ. 202—Economic Problems	2
Sci. 103—Int. to Physical Science		Sci. 104—Int. to Physical Science	
or	3	or	3
Sci. 101—Int. to Biological Science		Sci. 102—Int. to Biological Science	
P. S. 241—Government of the U. S.	3	Ed. 211—Human Growth and Development II	3
Ed. 210—Human Growth and Development I	3	P. E. 285—Community Recreation	2
		Core Curriculum	3
	<hr/> 16 1/2		<hr/> 16 1/2

JUNIOR YEAR

First Semester		Second Semester	
Hist. 331—Mod. Europe, 1500-1815	3	Hist. 332—Mod. Europe Since 1815	3
Geog.—Elective	3	P. S.—Advanced Elective	3
Soc.—Advanced Elective	3	Soc. Sci.—Advanced Elective	3
*Elective	8	Ed. 472—Fund. of Secondary Ed.	4
		*Elective	4
	<hr/> 17		<hr/> 17

SENIOR YEAR

First Semester		Second Semester	
Ed. 375—Student Teaching	4	Ed. 475—Student Teaching	4
Hist.—Advanced Elective	3	Hist.—Advanced Elective	3
Soc. Sci.—Advanced Elective	3	Seminar	1
*Elective	5	*Elective	6
	<hr/> 15		<hr/> 14

*Consider Core Curriculum requirements when selecting these courses. A minimum of seven hours of this elective work must be in 300 and/or 400 courses.

Provisional High School Certificate with the First Major in History.

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	Ed. 100—Orientation in Education	1
Hist. 131—History of Civilization	3	Hist. 132—History of Civilization	3
Sci. 101—Int. to Biological Science	3	Sci. 102—Int. to Biological Science	3
or		or	
Sci. 103—Int. to Physical Science	3	Sci. 104—Int. to Physical Science	3
Geog. 100—Fund. of Geography	3	Geog. 241—North America	3
P. E. 104—Personal Hygiene	2	Second Major	3
	<hr/>		<hr/>
	15 $\frac{1}{2}$		16 $\frac{1}{2}$

SOPHOMORE YEAR

First Semester		Second Semester	
Eng. 201—Int. to Literature	3	Eng. 202—Int. to Literature	3
P. E.—Activity Course	$\frac{1}{2}$	P. E.—Activity Course	$\frac{1}{2}$
Ed. 210—Human Growth and Development I	3	Ed. 211—Human Growth and Development II	3
Hist. 241—The U. S., 1492-1865	3	Hist. 242—The U. S. Since 1865	3
Sci. 103—Int. to Physical Science	3	Sci. 104—Int. to Physical Science	3
or		or	
Sci. 101—Int. to Biological Science	3	Sci. 102—Int. to Biological Science	3
P. E. 285—Community Recreation	2	Second Major	3
Second Major	3	*Elective	2
	<hr/>		<hr/>
	17 $\frac{1}{2}$		17 $\frac{1}{2}$

JUNIOR YEAR

First Semester		Second Semester	
Hist. 331—Mod. Europe, 1500-1815	3	Ed. 472—Fund. of Secondary Ed.	4
Geog. 331—Europe	3	Hist. 332—Mod. Europe Since 1815	3
Second Major	6	Second Major	6
*Elective	5	*Elective	4
	<hr/>		<hr/>
	17		17

SENIOR YEAR

First Semester		Second Semester	
Ed. 375—Student Teaching	4	Ed. 475—Student Teaching	4
Hist.—Advanced elective	3	Hist.—Advanced elective	3
Second Major	3	Hist. 471—Seminar	1
*Elective	3	*Elective	6
	<hr/>		<hr/>
	13		14

*Consider Core Curriculum requirements and amount of Junior and Senior credit when selecting these courses.

DESCRIPTION OF COURSES

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 Department of Economics and Sociology.

History 241. The 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. The 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 the Second World War.

History 335. 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; politi-

cal and revolutionary movements; the November Rebellion; state, society, and economy after 1917; World War II and the post-war era.

History 336. 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 337. History of Germany. Three hours.

Prerequisites: History 131 and 132, and junior standing.

The origins 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 338. 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 Department of Economics and Sociology.

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 438. 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 440. 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 443. 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 445. 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 446. 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 447. 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 450. 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; the Second World War 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 141. Problems of Citizenship. Three hours.

The economic and political systems of the United States; civil liberty; public opinion; Negro problem; industrial problems; women's rights; problem of international relations; war and peace; immigration problem.

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 333. Comparative Government. Three hours.

Prerequisite: Political Science 241.

Constitutional development; political organization; legislation; administration; party systems; courts; local government; the cabinet; recent development and proposed changes.

Political Science 343. American Political Parties. Three hours.

Prerequisite: Political Science 241.

The political party as a part of the political machinery; party organization; party activities; campaign methods; reform movements; public opinion and party leadership; true function of parties and party responsibility.

Political Science 344. Kentucky Government. Two hours.

Prerequisites: Political Science 241 and 242.

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

Political Science 350. Early Political Theory. Three hours.

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 351. 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 446. The American Constitution Before 1875.

Three hours. (The course may be counted either as history or political science.)

Prerequisites: Political Science 241 and 242.

Anglo-American precedents of the constitution; various theories concerning the framing of the constitution, an analysis of the methods by which the constitution grows; Marbury vs. Madison; states rights, nullification, and secession; the greatness of John Marshall; Jackson and the Supreme Court; Civil War and the judiciary; rise of Big Business; Granger Cases.

Political Science 447. The American Constitution After 1875.

Three hours. (This course may be counted either as history or political science.)

Prerequisites: Political Science 241 and 242, and, preferably, Political Science 446.

The significance of the 14th amendment; the corporation as a person; business affected with a public interest; interstate commerce and its regulation; safeguarding contracts; personal rights; due process; equal protection of the laws; citizenship and suffrage; the New Deal and the courts; the courts in a changing world.

Political Science 448. 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 450. 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

Miss Pecheniuk

Mrs. Rice

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 girls 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, 301, 303, 331, 341, 351, 355, 431, 451, 452, 453, 454, 470, 475, and 480	63
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Additional requirements in other fields:

Freshman Orientation	1
Art 291 and 292	4
Science 101	3
Biology 317 and 332	8
Chemistry 111, 112 and 225	12
Economics	4
Education 100, 210 and 211	7
English 101, 102, 201 and 202	12
History 132 and 400	6
Mathematics 101	3
Physical Education	2
Sociology 170	3
Speech 280	3
Minimum for the degree	131

For a Major: (This program does not qualify for teaching Vocational Home Economics.)

Home Economics 130, 140, 141, 231, 241, 280, 301, 303, 355, and 451	29
(Other combinations for this major may be arranged with the approval of the department.)	

For a Minor:

Home Economics 130, 140, 141, 231 and 241	15
Elective in home economics approved by the department	6
Minimum for a Minor	21

For a Core Curriculum Field:

Six or more hours in home economics.

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.	$\frac{1}{2}$	P. E. 100b—Orientation in Phys. Ed.	$\frac{1}{2}$
Freshman Orientation	1	Ed. 100—Orientation in Education	1
H. Ec. 101—Orientation in H. Ec.	3	H. Ec. 130—Elem. Nutrition and Food Plan.	3
H. Ec. 140—Textiles	3	H. Ec. 141—Prob. in Cloth. Des. and Const.	3
Sci. 101—Int. to Biological Science	3	Math. 101—Business Arithmetic	3
Hist. 132—History of Civilization	3	Soc. 170—Rural Sociology	3
	<hr/> 16 $\frac{1}{2}$		<hr/> 16 $\frac{1}{2}$

SOPHOMORE YEAR

First Semester		Second Semester	
Eng. 201—Int. to Literature	3	Eng. 202—Int. to Literature	3
P. E.—Activity Course	$\frac{1}{2}$	P. E.—Activity Course	$\frac{1}{2}$
Ed. 210—Human Growth and Development I	3	Ed. 211—Human Growth and Development II	3
Econ. 201—Principles of Economics	4	H. Ec. 231—Food Plan. and Meal Preparation	3
Chem. 111—General Chemistry	4	H. Ec. 241—Cloth. Selection and Const.	2
H. Ec. 251—Household Equipment	3	Chem. 112—General Chemistry	4
	<hr/> 17 $\frac{1}{2}$		<hr/> 15 $\frac{1}{2}$

JUNIOR YEAR

First Semester		Second Semester	
Chem. 225—Organic Chemistry	4	Biol. 332—Human Physiology	4
H. Ec. 301—Consumer Problems	3	H. Ec. 303—Home Nursing and Family Health	3
H. Ec. 331—Adv. Meal Prep. and Table Serv.	3	H. Ec. 351—Housing	3
H. Ec. 341—Advanced Clothing	2	H. Ec. 452—Home Management	2
Sp. 280—Basic Speech	3	H. Ec. 355—Child Development	3
Art. 291—Color and Design	2	Art. 292—Costume Design	2
	<hr/> 17		<hr/> 17

SENIOR YEAR

First Semester		Second Semester	
Biol. 317—Bacteriology	4	Hist. 400—American Foundations	3
H. Ec. 431—Advanced Nutrition	3	H. Ec. 451—Home Furnishings	3
H. Ec. 453—Social Problems of the Family	3	H. Ec. 475—Student Teaching in H. Ec.	8
H. Ec. 470—Methods of Teach. Voc. H. Ec.	3	H. Ec. 480—Seminar	1
H. Ec. 454—Home Management House	3		
	<hr/> 16		<hr/> 15

DESCRIPTION OF COURSES

Home Economics 101. Orientation in Home Economics. 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; food requirements at different age levels and for occupational and other activities; over-weight and under-weight; food in relation to general health and evaluation of dietaries; preparation of beverages, fruits, meals, starchy sauces and desserts, egg and milk dishes, vegetables, salads, and protein dishes. Two lecture-discussion periods and one two-hour laboratory period per week.

Home Economics 140. Textiles. Three hours.

Recognition of the various materials of which fabrics are made; the origin, manufacture, durability, cost, uses and care of natural and synthetic 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 190. Clothing Renovation and Construction. Two hours.

Each individual receives assistance with her own personal problems. Beginners are taught how to sew and more experienced students make clothing according to their ability. The construction of all types of garments is practiced. Two two-hour laboratory periods per week.

Home Economics 230. Nutrition and Dietetics. Three hours.
Prerequisites: Home Economics 130.

Designed for students of nursing. Principles of nutrition and practice in planning, adjusting and preparing dietaries. One lecture-discussion period and four laboratory hours per week.

Home Economics 231. Food Planning and Meal Preparation. Three hours.

Prerequisites: Home Economics 101 and 130.

Principles of food storage and preservation; use of common foods in the family's food plans; special attention to inexpensive main dishes, yeast breads, and desserts. A day's dietary will be prepared, using good methods of marketing and accounting. One lecture-discussion period and two two-hour laboratory periods per week.

Home Economics 241. Clothing Selection and Construction. Two hours.

Prerequisites: Home Economics 140, 141, and Art 291.

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 the making of simple garments of cotton, wool or rayon; construction of one child's garment and one made-over project. One lecture-discussion period and one two-hour laboratory period per week.

Home Economics 242. Personal Clothing. Two hours.

Practical training in the planning, selection, and construction of the personal wardrobe from the aesthetic, economic, and hygienic viewpoints; a study of clothing emphasizing good taste, psychology of dress and care. Materials for garments furnished by students. One lecture-discussion period and one two-hour laboratory period 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 in 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 301. Consumer Problems. 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 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. One lecture-discussion period and one two-hour laboratory period per week.

Home Economics 303. Home Nursing and Family Health. Three hours.

Prerequisites: Home Economics 130, Biology 101 and 332.

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 Table Service. Three hours.

Prerequisite: Home Economics 231.

The planning, preparing and serving of breakfasts, luncheons, dinners, and banquets and other special occasions; marketing, budgeting, and accounting. One lecture-discussion period and two two-hour laboratory periods per week.

Home Economics 332. Quantity Cookery. Two hours.

Prerequisite: Home Economics 231.

Menu planning; amounts needed to serve groups of various sizes; food costs; use of equipment; food preparation in quantity; good service. Laboratory work is done in the college cafeteria under the direction of the dietitian.

Home Economics 334. Advanced Cookery. Three hours.

Prerequisite: Home Economics 331.

Standard products and factors which affect them; individual topics for investigation as related to ingredients used, time, temperature, and methods of mixing; principles and techniques involved in demonstrations in food and nutrition and practical experiences in demonstrations that can be applied to the needs of business, the classroom and community, and extension work. Three two-hour laboratory-discussion periods per week.

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 wool, silk, and synthetic materials; economics of dress; application of different finishing techniques; creative work in draping in silk. Garments are constructed from original adaptive designs. All material is furnished by students. Two two-hour laboratory-discussion periods per week.

Home Economics 351. 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 in American and foreign housing from the custom-built to the prefabricated house of today. 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 431. Advanced Nutrition. Three hours.

Prerequisites: Home Economics 331 and chemistry.

Energy, metabolism, fats, carbohydrates, proteins, minerals, vitamins, digestion, and enzymes; dietary requirements for different ages, sexes, and conditions; national nutrition problems; prevention and treatment of general malnutrition; diet in common diseases; infant feeding; adequate diets at different cost levels. Two lecture-discussion periods and one two-hour laboratory period per week.

Home Economics 432. Food Selection and Preparation. Two hours.

Importance of correct food habits; menu planning at home and in public places; food purchasing; preparation of a variety of foods; serving meals.

Home Economics 441. Tailoring. Two hours.

Prerequisite: Home Economics 341.

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 451. 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.

Prerequisite: Home Economics 301.

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 453. 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 of Teaching Vocational Home Economics. Three hours.

Prerequisite: Senior standing in home economics.

The history of home economics and the vocational education program; contribution to a life adjustment program in personal, family, and community living; the community and participation in its activities; study methods, techniques, and teaching aids.

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.

H.E.C. 480 (471) Seminar One Hr

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, 203, 210, 211, 283, 304, 311, 386 and 471	29
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Additional requirements in related fields:

Art 101 and 341	4
Mathematics 101	3
Science 103 and 104	6

For a Minor:

Industrial Arts 103, 110, 111, 203, 211, and 386	17
Elective in industrial arts	3
Total for a Minor	20

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 First Major
in Industrial Arts**

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	Ed. 100—Orientation in Education	1
I. A. 103—Elem. Mechanical Draw.	3	I. A. 203—Adv. Mechanical Draw.	3
Sci. 101—Int. to Biological Science	3	Sci. 102—Int. to Biological Science	3
or		or	
Sci. 103—Int. to Physical Science	3	Sci. 104—Int. to Physical Science	3
Hist. 131—History of Civilization	3	Hist. 132—History of Civilization	3
Math. 101—Business Arithmetic	3	P. E. 104—Personal Hygiene	2
		Art. 101—Drawing	2
	<hr/> 16½		<hr/> 17½

SOPHOMORE YEAR

First Semester		Second Semester	
Eng. 201—Int. to Literature	3	Eng. 202—Int. to Literature	3
P. E.—Activity Course	½	P. E.—Activity Course	½
Ed. 210—Human Growth and Development I	3	Ed. 211—Human Growth and Development II	3
I. A. 111—General Woodwork I	3	I. A. 211—General Woodwork II	3
Sci. 103—Int. to Physical Science	3	Sci. 104—Int. to Physical Science	3
or		or	
Sci. 101—Int. to Biological Science	3	Sci. 102—Int. to Biological Science	3
Second Major	3	Second Major	3
P. E. 285—Community Recreation	2	I. A. 110—Elementary Woodturning	2
	<hr/> 17½		<hr/> 17½

JUNIOR YEAR

First Semester		Second Semester	
I. A. 210—Advanced Woodturning	2	Ed. 472—Fundamentals of Secondary Education	4
I. A. 283—Sheetmetal	3	I. A. 304—Architectural Drawing	3
Second Major	6	Second Major	6
Art 341—Crafts	2	*Advanced Elective	4
Ec. 201—Principles of Economics	4		
	<hr/> 17		<hr/> 17

SENIOR YEAR

First Semester		Second Semester	
Ed. 375—Student Teaching	4	Ed. 475—Student Teaching	4
I. A. 311—Design and Const. of Furniture	3	I. A. 386—Metalwork	3
Hist. 400—American Foundations	3	Art 442—Crafts II	2
Second Major	3	Second Major	3
	<hr/> 13		<hr/> 12

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. General Woodwork. Three hours.

Care and adjustment of tools; elementary operations; construction of simple projects.

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. General 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 219. Farm Shop. Three hours.

The general problems which a farmer must face in his own shop; construction and care of simple farm appliances; care of farm equipment.

Industrial Arts 283. Sheetmetal. Three hours.

Care and use of sheetmetal equipment. Designing, layouts, templates, soldering, brazing, seaming, punching, riveting and forming.

Industrial Arts 304. 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 311. 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 351. 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 386. 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 388. 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 460. History of Industrial Arts. Three hours.

A study of the development of the field of industrial arts.

Industrial Arts 471. 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 474. Vocational Education. Three hours.

A survey of the modern industrial system, corporation schools, trade schools, etc.; state and national legislation affecting vocational education is studied.

Industrial Arts 475. 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 Chapman
Miss Watson

Miss Bishop
Miss Williams

OBJECTIVES:

1. To make all students more proficient in the use of the library.
2. To provide basic library courses for classroom teachers, the high school librarian, and administrators.

REQUIREMENTS:

For a Minor:

Library Science 227, 291, 311, 321, 411, and 475 18

DESCRIPTION OF COURSES

Library Science 227. (Also Education 227.) Literature for Children. Three hours.

Prerequisites: English 102.

The periods of story-interests; literature for each period, including myths, legends, folklore, etc.; correlation of literature with other school subjects; methods of presenting literature that will give enjoyment to children and develop appreciation. Extensive reading of the literature and observation lessons in the Training School are required.

Library Science 291. 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 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. Offered First Semester.

Library Science 311. 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 desirable. Offered Second Semester.

Library Science 321. Book Selection. 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, an acquaintance with books in various fields and book selection aids.

Library Science 411. 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 475. School Library Practice. Three hours.

Prerequisite: 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.

Library Science 490. Library Science for Administrators. Three hours.

This course is designed to acquaint administrators with the function of the school library as a part of the total school program. It is a survey of all phases of the work of the library.

MUSIC

Mr. Weil

Mr. Aukerman

Mr. Huffman

Miss Greim

Mr. Pound

Miss Johnson

OBJECTIVES:

1. To develop to a high degree the technical skills and the theoretical, historical, and appreciative backgrounds of those students who wish to teach music.
2. To meet the requirements of students desiring technical training and a cultural background in music.
3. To provide opportunities for participation in one of the leisure time activities on an elective basis.

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	25-27
2. Theory of Music	15-18
3. History and Appreciation of Music	6- 9
4. Music Education	6- 9
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	5- 8
4. Recital	1
5. Elective in any area of music	0- 9

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

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

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

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

Minimum for the Minor 18

APPLIED MUSIC

Students are expected to meet the requirements for their major performing medium on the basis of one hour of practice daily and two one-half hour private lessons weekly. The requirements in other than their major performing medium may be fulfilled with either class or private instruction.

Students who expect to teach, and whose major performing medium is not piano, must meet the minimum piano requirement, either through examination by the faculty or class or private lessons. Not more than four semester hours of credit may be earned while meeting the minimum piano requirement. The material for the examination in piano is selected from the following:

1. Czerny Studies, Volume I, Part II (Germer)
Bergmuller Studies, Book II, Op. 100
Heller Studies, Op. 125.
2. Selections of approximately third grade difficulty to be played from memory.
3. Sight-reading of four-part hymns and simple vocal or instrumental accompaniments.

In addition to his major performing medium, the student should be proficient in two other performing areas. Completion of these two minors in applied music will be determined by consultation with the faculty.

Except for bass instruments of the orchestra or band, piano, and organ, students are expected to furnish their own instruments.

All music students are expected to participate in the ensembles for which they may be qualified and in the chorus throughout their college careers, either with or without credit.

Students whose major medium is a band instrument are expected to present a half-recital before graduation. Students whose major performing medium is other than a band instrument should present a full recital before graduation.

Classes in applied music meet twice weekly for fifty-minute periods.

Private lessons in applied music meet twice weekly for thirty-minute periods.

Fees for Applied Music:

	per semester
Private lessons	
*Two lessons per week	\$35.00
*One lesson per week	20.00
Practice room rental	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

Music 111-412. Voice. One hour per semester. (Class instruction.)

Music 111A-412A. Voice. Two hours per semester. (Private lessons.)

Fundamentals of singing and basic repertoire. Advanced work according to the ability of the student.

Music 114-415. Stringed Instruments. One hour per semester. (Class instruction.)

Music 114A-415A. Stringed Instruments. Two hours per semester. (Private lessons.)

Presentation of the fundamental techniques of playing the violin and other stringed instruments of the viol family. Advanced work according to the ability of the individual.

Music 117-418. Piano. One hour per semester. (Class instruction.)

Music 117A-418A. Piano. Two hours per semester. (Private lessons.)

Instruction in the fundamentals of piano playing, the notations of music, reading, and the development of interpretation and technique. Advanced work according to the ability of the student.

Music 144A-445A. Organ. Two hours per semester. (Private lessons only.)

Prerequisite: Consent of the instructor.

Fundamentals of organ technique. Advanced work according to the ability of the individual.

Music 151-452. Woodwind and Percussion. One hour per semester. (Class instruction.)

Instruction in clarinet, flute, oboe, and bassoon, and elementary percussion.

Music 151A-452A. Woodwind. Two hours per semester. (Private lessons.)

Instructions on one of the woodwind instruments. Advanced study in accordance with the ability of the student.

Music 154-455. Brasswind and Percussion. One hour per semester. (Class instruction.)

Instruction in cornet, horn, trombone, baritone, or bass, and advanced percussion.

Music 154A-445A. Brasswind. Two hours per semester. (Private lessons.)

Instruction on one brass instrument. Advanced study in accordance with the ability of the student.

ENSEMBLES

Note.—A maximum of eight semester hours of credit in Chorus, Band, and/or Orchestra may be counted as elective credit by students who are not majoring in music. A maximum of 12 semester hours in these activities 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 a degree.

Chorus: Open to all college students who have a musical background equal to Music 100 or Music 231. A required course for music major and minor students. Three periods per week. One hour of credit for each semester of participation.

Band: Open to all college students who have satisfactory playing ability on a band instrument. Three to four periods per week. One hour credit for each semester of participation.

Orchestra: Open to all college students who have satisfactory playing ability on an orchestral instrument. Two to three periods per week. One hour credit for each semester of participation.

Small Ensembles: Open to students only upon approval of the instructor. String ensembles will use the following numbers followed by "S," vocal ensembles by "V," brass and woodwind by "W." *Piano "P". "D"*

Study of chamber music for the purpose of public performance.

Two class meetings per week with outside preparation are required.

Music 86, 87. Small Instrumental and Vocal Ensembles. One hour each.

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. Required for elementary certificates. 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. Prerequisite: 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 which is a prerequisite. 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, which is a prerequisite. Required for a major. Offered during the second semester. Four periods per week.

Music 341. Harmony I. Three hours.

Prerequisites: Music 231 and ability to play and read third grade piano music.

A study of the harmonic materials and how they have been used by composers of the 18th and 19th centuries. These materials include scales, intervals, triads, tonality, modality, etc.; and a study of harmonization of a given part, inversions, and modulation.

Music 342. Harmony II. Three hours.

Prerequisites: Music 232 and 341.

Continuation of the study of such harmonic materials as the dissonance and its resolution as found in the dominant and non-dominant harmonies, sequences, altered, and mixed chords.

Music 443. Counterpoint. Three hours.

Prerequisite: Music 342.

Elementary two and three-point writing; motive development; practical usages in arranging.

Music 444. Instrumentation. Three hours.

Prerequisite: Music 342.

A study of the playing range and transposition of all the orchestral instruments with practice in arranging selected materials for various instrumental ensembles. Offered during the first semester.

Music 445. Form and Analysis. Two hours.

Prerequisite: Music 342.

Study of the elements of musical design through aural and score analysis.

Music 475. Introduction to Musicology. Two hours.

Study and research in the systematic and historical branches of the science of music.

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.

Offered each semester and summer session.

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. Elective for a major or minor.

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.

Materials and methods in the Junior and Senior High School; 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. Elective for a major or minor.

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 379. Techniques of the Marching Band. Two hours.

The design and staging of field maneuvers.

Offered during the first semester.

Music 471. Conducting. Two hours.

Prerequisite: Music 232.

Required for major and minor.

Fundamental principles of conducting, with special emphasis on school, choral, band, and orchestral repertory.

Music 472. Conducting. Two hours.

Prerequisite: Music 471.

Music 475. 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 HISTORY AND APPRECIATION**Fine Arts 160. Appreciation of the Fine Arts. Three 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. One hour.

A general course designed to promote intelligent listening and to provide a basic background of the significant literature of music.

Music 162. Literature of Music. One hour.

A continuation of Music 161.

Music 361. History of Music. 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 art of the Netherlands. Special emphasis on Handel, Bach, Haydn, and Mozart. Fall semester.

Music 362. History of Music. 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.

Music 377. Instrumental Repair and Maintenance. One hour.

Demonstration and actual practice in the repair and maintenance of string, brasswind, woodwind, and percussion instruments. Elective for majors and minors. Two hours per week.

Music 490. Studies in the Literature of Music. Two hours.

Detailed analysis of the music of individual composers, musical styles or periods.

NURSING

Mrs. Woerner

Miss Siani

This department, in cooperation with the King's Daughters Hospital of Ashland, Kentucky, provides a three-year program in nursing. Three semesters of the work is done on the Morehead campus and the remainder of the time is spent in the hospital. Students who successfully complete this program are granted a diploma by the college and are eligible for admission to the examination for certification as a Registered Nurse in Kentucky.

OBJECTIVES:

1. To provide suitable training for young men and women who wish to be nurses.
2. To prepare nurses who, upon completion of the required program, will be able to meet the requirements of the Kentucky State Board of Nurse Examiners.
3. To provide the essentials of general education so that the nurse may function intelligently as a member of the profession and as a citizen.

REQUIREMENTS:

Sem. Hrs.

Freshman Orientation	1
English 101 and 102	6
Physical Education 100a and 100b	1
Science 101, Biology 306 and 310	10
Chemistry 111 and 112	8
Home Economics 130 and 230	6
Sociology 170	3
Education 153	3
Nursing 100, 101, 105, 110, 120 and 160	10
Total	48

SUGGESTED PROGRAM

FIRST YEAR

First Semester		Second Semester	
Eng. 101—Writing and Speaking	3	H. Ec. 130—Elementary Nutrition	3
P. E. 100a—Orientation in Phys. Ed.	½	P. E. 100b—Orientation in Phys. Ed.	½
Freshman Orientation	1	Biol. 306—Anatomy and Physiology	4
Sci. 101—Int. to Biological Science	3	Chem. 112—General Chemistry	4
Chem. 111—General Chemistry	4	Nurs. 101—Foundations in Nursing	2
Nurs. 100—Introduction to Nursing	2	Nurs. 110—Drugs and Solutions	1
Nurs. 105—Nursing as a Profession	2	Nurs. 160—Int. to Medical Science	1
	<hr/> 15½		<hr/> 15½

SECOND YEAR

First Semester

Eng. 102—Writing and Speaking	3
Biol. 310—Microbiology	3
H. Ec. 230—Nutrition and Dietetics	3
Soc. 170—Rural Sociology	3
Educ. 153—General Psychology	3
Nurs. 120—Pharmacology and Therapeutics	2
	<hr/> 17

DESCRIPTION OF COURSES

Nursing 100. Introduction to Nursing. Two hours.

The foundation experiences on which all of the other courses in nursing arts are built. Deals with health conservation, beginning with the student's own health and proceeding to the promotion of the health of others. Six hours per week.

Nursing 101. Foundations in Nursing. Two hours.

Emphasis on fundamental nursing care. Attention is given to the patient's mental, social, and physical needs. Basic nursing procedures are studied and practiced. Principles of first aid are integrated. Four hours per week.

Nursing 105. Nursing as a Profession. Two hours.

Study of the ideals, attitudes, conduct, standards and practices which characterize a profession. The course is designed to aid the student to orient herself to the new vocation and to appreciate the social responsibilities she inherits when she identifies herself with the nursing profession. Emphasis is placed on the ethical aspects of professional problems.

Nursing 110. Drugs and Solutions. One hour.

The sources, physical and chemical properties, and compounding of drugs; weights and measures as applied to drugs; and the arithmetical processes involved in the preparation and administration of drugs and solutions.

Nursing 120. Pharmacology and Therapeutics. Two hours.

The study of drugs, and substances acting as drugs, in their relationship to the treatment of diseases. Three hours per week.

Nursing 160. Introduction to Medical Science. One hour.

Materials relating to pathology, sanitary science, and preventive medicine; differences between disease conditions and health conditions; and ways in which modern medical science attacks the problems of disease.

SCIENCE AND MATHEMATICS

Mr. West

Mr. Phillips

Mr. Fair

Mr. Owsley

Mr. Overstreet

SCIENCE FOR GENERAL EDUCATION

(The first four courses listed in this division are recommended for non-science majors in meeting the minimum requirements in science for graduation. Credit for these courses will not be accepted on a major or minor in any of the sciences.)

Science 101. Introduction to Biological Science. Three hours.

The history of biology; classification of animal and plant life; protoplasm and cellular structure of animals; simpler forms of plant life; reproduction in higher animals and plants. Two lecture-discussion periods and two laboratory periods per week.

Science 102. Introduction to Biological Science. Three hours.

Prerequisite: None. Science 101 desirable.

Structure, function, and life cycle of mosses, ferns, and seed plants; seeds and seedlings; the vertebrate animals; genetics; conservation. Two lecture-discussion periods and two laboratory periods per week.

Science 103. Introduction to Physical Science. Three hours.

(Students who have had either physics or chemistry in high school should not enroll for this course or Science 104).

The sun and its family; stars and galaxies; force, motion, heat, and energy; structure of matter; kinetic theory; electricity and magnetism; light and sound.

The procedure in this course will consist of classroom discussion, demonstration lectures, visual aids, textbook and problem assignments.

Science 104. Introduction to Physical Science. Three hours.

Chemical change; atomic theory; chemical formulae and ionic reactions; chemical energy and equilibrium; oxidation and reduction; compounds of carbon and silicon; minerals and rocks; record of the rocks; erosion and sedimentation; weather and climate.

Science -90. Science for the Elementary Teacher. Three hours.

Prerequisite: Science 102 and 104 or the equivalent.

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.

ASTRONOMY

Astronomy 250. Descriptive Astronomy. Two hours.

Prerequisite: High school physics or any of the freshman courses in physics.

The world as an astronomical body; the solar system; systems of time measurement; systems of coordinates; our galaxy; the galaxies and other forms of matter beyond our galaxy.

Astronomy 251. Mathematical Astronomy. Two hours.

Prerequisites: Mathematics 141; Physics 131 and 132; credit or registration for Astronomy 250.

Under each of the topics studied in Astronomy 250 illustrative problems will be assigned.

BIOLOGY

OBJECTIVES:

1. To afford students an opportunity to gain a knowledge of plants and animals as a part of their general culture.
2. To prepare teachers of nature study for the elementary school and teachers of biology for the secondary school.
3. To furnish a background for the study of certain professional courses such as agriculture, home economics, medicine, and dentistry.

REQUIREMENTS:

For an Area of Concentration in Science (Emphasis on Biology):

Biology 210, 215, 216, 337, and seven hours elective in advanced biology	21	- 21
Chemistry 111, 112, and 225	12	- 12
Physics 231, 232, and three hours elective in advanced physics	13	- 13
Geology 100	3	- 3
Education 100, 210, 211, 472, 375, and 475	19	49
English 101, 102, 201, and 202	12	
Freshman Orientation	1	
Physical Education 104, 285, and two hours in activity courses	6	
Core Curriculum		
Mathematics 141, 151, 152, 271, and 361	14	- 14
Social Science, including History 400	12	
Third field	6	
Elective	9	
Minimum for the degree	128	

For a Major:

Biology 210, 215, 216, 337, 471, and 474	18
Elective in advanced biology approved by the department	9
Minimum for a Major	27

For a Minor:

Biology 210, 215, 216, and 337	14
Elective in advanced biology approved by the department	6
Minimum for a Minor	20

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 all requirements for graduation.

**Provisional High School Certificate with an Area of Concentration
in Science (Emphasis on Biology)**

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	Ed. 100—Orientation in Education	1
Biol. 210—General Zoology	4	Math. 152—College Algebra	2
Math. 151—College Algebra	2	Chem. 112—General Chemistry	4
Chem. 111—General Chemistry	4	Math. 141—Plane Trigonometry	3
P. E. 104—Personal Hygiene	2	Social Science	3
	<hr/> 16 $\frac{1}{2}$		<hr/> 16 $\frac{1}{2}$

SOPHOMORE YEAR

First Semester		Second Semester	
Eng. 201—Int. to Literature	3	Eng. 202—Int. to Literature	3
P. E.—Activity Course	$\frac{1}{2}$	P. E.—Activity Course	$\frac{1}{2}$
Biol. 215—General Botany	3	Biol. 216—General Botany	3
Ed. 210—Human Growth and Development I	3	Ed. 211—Human Growth and Development II	3
Geol. 100—General Geology	3	Math. 271—Analytic Geometry	3
Chem. 225—Organic Chemistry	4	Social Science	3
	<hr/> 16 $\frac{1}{2}$	P. E. 285—Community Recreation	2
			<hr/> 17 $\frac{1}{2}$

JUNIOR YEAR

First Semester		Second Semester	
Math. 361—Differential Calculus	4	Ed. 472—Fund. of Secondary Education	4
Phys. 231—General College Physics	5	Phys. 232—General College Physics	5
Biol. 337—Comparative Anatomy	4	Advanced Social Science	3
Advanced Biology	3	Advanced Biology	4
	<hr/> 16		<hr/> 16

SENIOR YEAR

First Semester		Second Semester	
Ed. 375—Student Teaching	4	Ed. 475—Student Teaching	4
Advanced Physics	3	Hist. 400—American Foundations	3
Core Curriculum	3	Core Curriculum	3
Advanced Elective	4	Advanced Elective	5
	<hr/> 14		<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
P. E. 100a—Orientation in Phys.		P. E. 100b—Orientation in Phys.	
Ed.	$\frac{1}{2}$	Ed.	$\frac{1}{2}$
Freshman Orientation	1	Math. 152—College Algebra	2
Math. 151—College Algebra	2	Chem. 112—General Chemistry	4
Chem. 111—General Chemistry	4	Hist. 132—History of Civilization	3
Hist. 131—History of Civilization	3	Ed. 153—General Psychology	3
P. E. 104—Personal Hygiene	2	Chem. 114—Qualitative Analysis	1
Chem. 113—Qualitative Analysis	1		
	<hr/> 16½		<hr/> 16½

SOPHOMORE YEAR

First Semester		Second Semester	
P. E. —Activity Course	$\frac{1}{2}$	P. E. —Activity Course	$\frac{1}{2}$
Biol. 210—General Zoology	4	Biol. 213—Comparative Anatomy	4
Phys. 131—Elementary Physics	4	Phys. 132—Elementary Physics	4
Foreign Language	3	Foreign Language	3
Soc. 201—Introductory Sociology	3	Mathematics	3
Eng. 201—Int. to Literature	3	Eng. 202—Int. to Literature	3
	<hr/> 17½		<hr/> 17½

JUNIOR YEAR

First Semester		Second Semester	
Biol. 317—Bacteriology	4	Biol. 433—Embryology	4
Chem. 225—Organic Chemistry		Chem. 332—Organic Chemistry	
or	4-5	or	5
Chem. 331—Organic Chemistry		Elective	
Foreign Language	3	Foreign Language	3
Ec. 201—Principles of		Hist. 400—American Foundations	3
Economics	4	Elective	2
	<hr/> 15-16		<hr/> 17

SENIOR YEAR

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.

DESCRIPTION OF COURSES**Biology 203. Nature Study. Three hours.**

Common forms of mushrooms, mosses, ferns, and flowering plants; flowers, seeds, and fruits, common forms of fishes, amphibians, reptiles, birds and mammals; teaching devices, nature games, and literature for children. One lecture-discussion and four laboratory hours per week.

Biology 210. General Zoology. Four hours.

Prerequisite: High school biology or Science 101. Not open to students who have had Science 102.

Introduction to the classes and phyla of vertebrate and invertebrate animals; structure, function, development and life history, adaptations, and heredity of animal types. The major portion of the laboratory work will consist of dissecting the frog. Two lecture-discussion and two two-hour laboratory periods per week.

Biology 215. General Botany. Three hours.

Plant behavior and growth; structure and physiology of roots, stems, leaves, flowers, and fruits. Two lecture-discussion and two laboratory hours per week.

Biology 216. General Botany. Three hours.

General survey of the plant kingdom; development, reproduction, and relationships of the Thallophytes, Bryophytes, Pteridophytes, and Spermatophytes. One lecture-discussion and four laboratory hours per week.

Biology 304. Genetics. Three hours.

History of genetics; gamete formation; segregation and recombination of factors; dominant, complementary, supplementary, inhibitory, sex-linked, sex-limited factors; linkage and cross-over; and biometric methods. Implications of genetics for eugenics and eugenics. Two lecture-discussion and two laboratory hours per week.

Biology 306. Anatomy and Physiology. Four hours.

The anatomy and physiology of the major body systems. Three lecture-discussion periods and two laboratory hours per week.

Biology 310. Microbiology. Three hours.

Prerequisite: Science 101.

General principles of microbiology; inhibition, destruction and removal of microorganisms; infection, immunity, allergy; techniques of taking samples, caring for and identifying pathological materials; and protection of health. One lecture-discussion period and four laboratory hours per week.

Biology 311. Eugenics. Three hours.

Differences among men; inheritance of human differences; natural selection; need for negative eugenics; eugenic aspects of marriage and divorce legislation; wars; religion; race amalgamation; euthenic measures. Three lecture-discussion hours per week.

Biology 313. Economic Botany. Three hours.

Prerequisite: Biology 215.

Industrial plants and plant products; drug plants and drugs; food plants and food adjuncts such as spices and other flavoring material; beverage plants and beverages. Two lecture-discussion and two laboratory-demonstration hours per week.

Biology 316. Dendrology. Two hours.

Prerequisite: Biology 215.

Types and arrangement of flowers, buds, leaves, and leaf scars; identification of trees and shrubs; texture of wood and its economic importance; landscaping. One lecture-discussion and two laboratory hours per week.

Biology 317. Bacteriology. Four hours.

Methods of identification and classification of bacteria; morphology and 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. Spring Flora. Three hours.

Prerequisite: Biology 215.

Types of flowers; structure and arrangement of flower parts; construction of keys; law of nomenclature; classes, orders, and families of flowering plants. One lecture-discussion and four laboratory hours per week.

Note.—Students enrolling for Biology 318 who already have credit for Biology 319 will be expected to do additional collecting and classifying—this additional work to be in excess of the regular course requirements.

Biology 319. Summer Flora. Three hours.

Prerequisite: Biology 215.

Similar to Biology 318 but dealing with summer flowering plants of eastern Kentucky. One lecture-discussion and four laboratory hours per week.

Note.—Students enrolling for Biology 319 who already have credit for Biology 318 will be expected to do additional collecting and classifying—this additional work to be in excess of the regular course requirements.

Biology 332. Human Physiology. Four hours.

Protoplasmic organization; structure; circulation and function of blood; respiration; excretion; digestion; metabolism and nutrition; endocrine system; nervous system; special senses; reproduction. Three lecture-discussion and two laboratory hours per week.

Biology 333. Ornithology. Three hours.

Prerequisite: None.

Classification and identification of birds; life histories; feeding habits; nesting habits; theories of migration; and economic importance. One lecture-discussion and four laboratory hours per week.

Biology 334. Entomology. Three hours.

Prerequisite: Science 102 or Biology 210.

General structure of insects, life histories, common orders, and families; economic importance and common methods of control. Two lecture-discussion and two laboratory hours per week.

Biology 336. Human Anatomy. Three hours.

Prerequisite: Science 102 or Biology 210.

Special emphasis is placed on internal anatomy; circulation; and muscular, skeletal, nervous and reproductive systems. Three lecture-discussion hours per week.

Biology 337. Comparative Anatomy. Four hours.

Prerequisite: Science 102 or Biology 210.

Comparative studies of the various organs and systems of vertebrate animals with particular emphasis on the dogfish shark and cat. Two lecture-discussion and four laboratory hours per week.

Biology 338. Vertebrate Embryology. Four hours.

Prerequisite: Science 102 or Biology 210.

Gamete formation; fertilization; cleavage, gastrulation; development of the nervous, digestive, excretory, circulatory, and respiratory systems; formation of the extra-embryonic membrane. Two lecture-discussion and four laboratory hours per week.

Biology 413. Plant Physiology. Three hours.

Prerequisite: Biology 215.

Topics: Osmosis; plasmolysis; photosynthesis; respiration; transpiration; fertilizers; soil elements and their uses; atmospheric elements and their functions; dormancy, etc. One lecture-discussion and four laboratory hours per week.

Biology 414. Plant Diseases. Three hours.

Prerequisites: Biology 215 and 216.

Significance of plant diseases; classification of fungi; diseases caused by rusts, smuts, fleshy fungi, bacteria, and viruses; physiogenic diseases; principles and procedure in the control of plant diseases; resistant varieties and cultural control. One lecture-discussion and four laboratory hours per week.

(Formerly
Biol. 213)

Biology 420. Histology. Four hours.

Prerequisite: Fifteen hours in biological science.

Characteristics of tissues and organs of mammals; organology; methods of killing, fixing, embedding, sectioning, mounting, and straining tissues for permanent study. Two lecture-discussion and four laboratory hours per week.

Biology 432. Physiology of Exercise. Three hours.

Prerequisite: Biology 336.

The structure of nerve fibers and nerves; physiological properties of nerve fibers; nature of nerve impulses; chemical changes in nerves; sources of energy from muscle contraction; waste products and their effects; fatigue, etc. Three lecture-discussion periods per week.

Biology 433. Field Vertebrate Zoology. Three hours.

Prerequisite: Science 102 or Biology 210.

Methods of classifying the animals; laws of nomenclature; use of keys; identification, habitats, and economic importance of the vertebrates of eastern Kentucky. One lecture-discussion and four laboratory hours per week.

Biology 461. Ecology. Four hours.

Prerequisites: Biology 210, 215, and 216.

Effects of soil, water, humidity, light, plant and animal population, succession studies, climax population, 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 junior standing.

Selected topics of current importance in biological research. One lecture-discussion period per week.

Biology 474. Biological Techniques. Two hours.

Prerequisite: Fifteen hours in biology.

Collecting, preserving, and caring for biological materials; rearing and culturing of 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. Two lecture-discussion periods per week.

Biology 476. Special Problems. One to three hours.

Prerequisite: 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, or problems to be investigated will be selected after enrollment.

CHEMISTRY

OBJECTIVES:

1. To contribute to the general cultural background of students.
2. To prepare teachers of chemistry for the secondary school.
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):

	Sem. Hrs.
Chemistry 111, 112, 113, 114, 331, and 332	20 -20
Biology 210, 215, 216, and 337	14 -14
Physics 131, 132, and six hours of advanced physics	14 -14
Geology 100	3 -3
Freshman Orientation	1 51
English 101, 102, 201, 202	12
Education 100, 210, 211, 472, 375, 475	19
Physical Education 104, 285, and two hours in activity courses	6
Core Curriculum	
Mathematics 141, 151, 271, and 361	14 -14
Social Science including History 400	12
Third field	6
Elective	7
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, 113, 114, 222, 222a, 223, 223a, 331, 332, and 471 28-32

- B. For students who expect to do graduate work in chemistry or to qualify as professional chemists:

Chemistry 111, 112, 113, 114, 222, 222a, 223, 223a, 331, 332, 441, 442, and 471 36-40

For a Minor:

Chemistry 111, 112, 113, 114, 222, 222a, 223, 223a, and 225 20-24

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
P. E. 100a—Orientation in Phys. Ed.	$\frac{1}{2}$	P. E. 100b—Orientation in Phys. Ed.	$\frac{1}{2}$
Freshman Orientation	1	Ed. 100—Orientation in Education	1
Chem. 111—General Chemistry	4	Chem. 112—General Chemistry	4
Chem. 113—Qualitative Analysis	4	Chem. 114—Qualitative Analysis	1
Math. 151—College Algebra	3	Math. 152—College Algebra	2
Geol. 100—General Geology	3	Math. 141—Plane Trigonometry	3
		P. E. 104—Personal Hygiene	2
	$15\frac{1}{2}$		$16\frac{1}{2}$

SOPHOMORE YEAR

First Semester		Second Semester	
Eng. 201—Int. to Literature	3	Eng. 202—Int. to Literature	3
P. E.—Activity Course	$\frac{1}{2}$	P. E.—Activity Course	$\frac{1}{2}$
Ed. 210—Human Growth and Development I	3	Ed. 211—Human Growth and Development II	3
Phys. 131—Elementary Physics	4	Phys. 132—Elementary Physics	4
Biol. 215—General Botany	3	Biol. 216—General Botany	3
Social Science	3	Math. 271—Analytic Geometry	3
	$16\frac{1}{2}$		$16\frac{1}{2}$

JUNIOR YEAR

First Semester		Second Semester	
Biol. 210—General Zoology	4	Ed. 472—Fund. of Secondary Education	4
Chem. 331—Organic Chemistry	5	Chem. 332—Organic Chemistry	5
Math. 361—Differential Calculus	4	Advanced Social Science	3
Social Science	3	Advanced Physics	3
		P. E. 285—Community Recreation	2
	16		17

SENIOR YEAR

First Semester		Second Semester	
Ed. 375—Student Teaching	4	Ed. 475—Student Teaching	4
Biol. 337—Comparative Anatomy	4	Core Curriculum	3
Hist. 400—American Foundations	3	Advanced Physics	3
Core Curriculum	3	Advanced Elective	4
Advanced Elective	2		
	<hr/> 16.		<hr/> 14

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 arrangement of elements; introduction to atomic chemistry. Three lecture-discussion and two laboratory hours per week.

Chemistry 112. General Chemistry (continued). Four hours.

Prerequisite: Chemistry 111, Mathematics 151 desired.

Continuation of the study of non-metals; introduction of various fields of chemistry, colloids, organic, electro-chemistry, metallurgy, etc.; introduction to the mathematics of chemical equilibrium and ionization. The laboratory work will include an introduction to qualitative chemistry. Three lecture-discussion and two laboratory hours per week.

Chemistry 113. Qualitative Analysis. 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. Qualitative Analysis. 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 Laboratory. Two to four hours.

Prerequisites: Chemistry 112 and credit or registration for Chemistry 222a, Mathematics 152, and ability to use a slide rule.

Gravimetric analysis. The number and types of analyses will depend upon the hours of credit and the field of the student's specialty. Two laboratory hours per week for each hour of credit.

Chemistry 222a. Qualitative Analytical Theory. One hour.

Prerequisite: Chemistry 112 and Mathematics 152. To be taken concurrently with Chemistry 222.

Principles of gravimetric analysis. One hour of lecture and class discussion per week.

Chemistry 223. Quantitative Analysis Laboratory. Two to four hours.

Prerequisite: Chemistry 222.

Volumetric analyses, the number dependent upon the hours of credit. Two laboratory hours per week for each hour of credit.

Chemistry 223a. Quantitative Analytical Theory. One hour.

Prerequisite: Chemistry 222a or permission of the instructor.

Principles of volumetric analysis, including electrometric titrations. One hour of lecture and class discussion 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 340. Introductory Chemistry of Foods. Three hours.

Prerequisite: Chemistry 225.

Foods—their nature, variety and functions; misconceptions concerning and abuses of food; identification of classes; effects of processing; digestion or spoilage; adulteration; extractive procedures; methods of identifying and estimating content; determining mineral content; criticism of food quackery and advertising. Two lecture-discussion and four laboratory hours per week.

Chemistry 410. Instrumental Analysis. Three hours.

Prerequisite: Chemistry 223.

The use of colorimetric, spectrophotometric, and electrometric methods of chemical analysis. One lecture-discussion and four laboratory hours per week.

Chemistry 441. Physical Chemistry. Four hours.

Prerequisites: Chemistry 223, and 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; the laws of thermodynamics; properties of solutions; colloids; thermo-chemistry, and equilibrium and its varieties. Two lecture-discussion and four laboratory hours per week.

Chemistry 442. Physical Chemistry. (continued). Four hours.

Prerequisites: Chemistry 441; credit or registration for Mathematics 362.

Chemical kinetics; electrical studies; quantum theory and photo-chemistry; nuclear chemistry. Two lecture-discussion and four laboratory hours per week.

Chemistry 451. 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 476. 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.

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.

For a Minor:

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. 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 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 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 152. College Algebra. Two hours.

Prerequisite: Mathematics 151 or permission of the instructor.

Quadratic equations; simultaneous quadratic equations; complex numbers; inequalities; progressions; permutations and combinations; probabilities; partial fractions; introduction to determinants and theory of equations.

Mathematics 252. Mathematics of Finance. Three hours.

Prerequisite: Mathematics 152.

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

Mathematics 271. Analytic Geometry. Three hours.

Prerequisites: Mathematics 141, 151 and 152; or Mathematics 141, 151 and registration for Mathematics 152; or Mathematics 151, 152 and registration for Mathematics 141.

Cartesian coordinates; curve as a locus; straight lines; circles; conic sections; transformations of coordinates; parametric equations; properties of curves and surfaces in geometry of three dimensions.

Mathematics 341. 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 353. 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.

Prerequisite: Mathematics 271.

The derivative; maxima and minima; rates; simple integration; areas; curvature; approximate formulas.

Mathematics 362. Integral Calculus. Four hours.

Prerequisite: Mathematics 361.

Integration; definite integrals; areas; surfaces; volumes; applications to physical problems; infinite series; partial differentiation; double integrals; triple integrals.

Mathematics 372. College Geometry. Three hours.

Prerequisite: Mathematics 271.

Geometric loci; similar and homothetic figures; Ceva's theorem; Menelaus' theorem; coaxial circles; inversion; poles and polars; cross ratio; involution.

Mathematics 381. Series. Three hours.

Prerequisite: Mathematics 362.

Aggregates; limits and bounds; tests for convergence and divergence; operations with series.

Mathematics 461. Advanced Calculus. Three hours.

Prerequisite: Mathematics 362.

Continuity; derivatives and differentials; series; partial differentiation; implicit functions; line integrals; surface integrals; space integrals.

Mathematics 462. 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 471. Synthetic Projective Geometry. Three hours.

Prerequisite: Mathematics 271.

Primitive forms; principle of duality; perspectivity; harmonic ranges and pencils; projectively related primitive forms; Pascal's theorem; Brianchon's theorem; poles; diameters; ruled surfaces; involution.

Mathematics 483. (Also Physics 483). Theoretical Mechanics: Statics. Three hours.

Prerequisites: Physics 232 and Mathematics 362.

Vectors, equilibrium, frames, virtual work, inertia, friction, elasticity, and applications.

Mathematics 484. (Also Physics 484.) Theoretical Mechanics: Dynamics. Three hours.

Prerequisite: Mathematics 483.

Kinematics, energy, motion, impulse, and collisions.

Mathematics 485. 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.

PHYSICS

OBJECTIVES:

1. Science 103 and 104 are intended to develop familiarity with the general ideas of physical science and with the terminology used in the literature so that the students can read works on subjects dealing with physics, geology, and astronomy with understanding.
2. The freshman course in elementary physics, Physics 131 and 132, is devised to meet the needs of those who have not had adequate science courses in high school. It is also intended to meet the needs of those students who plan to continue their studies in such professional schools as medicine and dentistry.
3. The more advanced courses are provided for those students who expect to teach physics or to become physicists or engineers.

REQUIREMENTS:

For an Area of Concentration in Science (Emphasis on Physics):

	Sem. Hrs.	
Physics 231, 232, 301, and ten hours elective in advanced physics	22	-22
Biology 210, 215, 216, and 337	14	-14
Chemistry 111, 112, and 225	12	-12
Geology 100	3	-3
Freshman Orientation	1	57
English 101, 102, 201, and 202	12	
Education 100, 210, 211, 472, 375, and 475	19	
Physical Education 104, 285, and two hours in activity courses	6	
Core Curriculum		
Mathematics 141, 151, 271, and 361	14	-14
Social Science, including History 400	12	
Third field	6	
Elective	7	
Minimum for the degree	128	

For a Major:

Physics 231, 232, 331, 332, 483 and 484	22
Elective in physics as approved by the department	3
Total for a Major	25
Students who are majoring in physics are also required to earn credit in Mathematics 141, 151, 152, 271, 361, and 362	18
It is also recommended that they earn credit in Mathematics 341 and 485 and Chemistry 111 and 112.	

For a Minor:

Physics 231 and 232	10
Elective in physics as approved by the department	8
Total for a Minor	18
Students who are minoring in physics are also required to earn credit in Mathematics 141, 151, 152, 171, and 261	14

**Provisional High School Certificate with an Area of Concentration
in Science (Emphasis on Physics)**

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	Ed. 100—Orientation in Ed.	1
Math. 141—Plane Trigonometry	3	Math. 152—College Algebra	2
Math. 151—College Algebra	2	Math. 272—Analytic Geometry	3
Chem. 111—General Chemistry	4	Chem. 112—General Chemistry	4
Geol. 100—General Geology	3	Social Science	3
	<hr/>		<hr/>
	16 $\frac{1}{2}$		16 $\frac{1}{2}$

SOPHOMORE YEAR

First Semester		Second Semester	
Biol. 215—General Botany	3	Biol. 216—General Botany	3
P. E.—Activity Course	$\frac{1}{2}$	P. E.—Activity Course	$\frac{1}{2}$
Math. 361—Differential Calculus	4	Social Science	3
Phys. 231—General College Physics	5	Phys. 232—General College Physics	5
Ed. 210—Human Growth and Development I	3	Ed. 211—Human Growth and Development II	3
P. E. 104—Personal Hygiene	2	P. E. 285—Community Recreation	2
	<hr/>		<hr/>
	17 $\frac{1}{2}$		16 $\frac{1}{2}$

JUNIOR YEAR

First Semester		Second Semester	
Eng. 201—Introduction to Literature	3	Eng. 202—Int. to Literature	3
Biol. 210—General Zoology	4	Ed. 472—Fund. of Secondary Education	4
Phys. 301—Physical Manipulations	3	Advanced Physics	3
Chem. 225—Organic Chemistry	4	Advanced Social Science	3
Core Curriculum	3	Core Curriculum	3
	<hr/>		<hr/>
	17		16

SENIOR YEAR

First Semester		Second Semester	
Ed. 375—Student Teaching	4	Ed. 475—Student Teaching	4
Biol. 337—Comparative Anatomy	4	Hist. 400—American Foundations	3
Advanced Physics	3	Advanced Physics	4
Advanced Elective	4	Advanced Elective	2
	15		13

SUGGESTED TWO-YEAR PRE-ENGINEERING CURRICULUM

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.	$\frac{1}{2}$	P. E. 100b—Orientation in Phys. Ed.	$\frac{1}{2}$
Math. 141—Plane Trigonometry	3	Math. 152—College Algebra	2
Math. 151—College Algebra	2	Math. 271—Analytic Geometry	3
Phys. 131—Elementary Physics	4	Phys. 132—Elementary Physics	4
I. A. 103—Elem. Mech. Drawing	3	I. A. 203—Adv. Mech. Drawing	3
Elective	1-2	Elective	1-2
	16 $\frac{1}{2}$ -17 $\frac{1}{2}$		16 $\frac{1}{2}$ -17 $\frac{1}{2}$

SECOND YEAR

First Semester		Second Semester	
Ed. 210—Human Growth and Development I	3	P. E. Activity course	$\frac{1}{2}$
P. E.—Activity Course	$\frac{1}{2}$	Math. 362—Integral Calculus	4
Math. 361—Differential Calculus	4	Phys. 232—Gen. College Physics	5
Phys. 231—Gen. College Physics	5	Chem. 112—General Chemistry	4
Chem. 111—General Chemistry	4	Elective	3
Elective	3		
	16 $\frac{1}{2}$		16 $\frac{1}{2}$

Note: The elective courses should be selected in the light of the requirements at the particular engineering school the student intends to enter. In the case of the University of Kentucky, for example, these electives should be in the fields of the social studies or foreign languages, depending upon the field of engineering in which the advanced work is to be taken.

DESCRIPTION OF COURSES

Physics 131. Elementary Physics. Four hours.

Prerequisites: High school algebra, plane geometry. Credit or registration in Mathematics 141 is advised.

Mechanics; molecular physics; heat; wave motion and sound. 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 Physics 131. Light; electricity; magnetism; atomic physics.

Physics 231. General College Physics. Five hours.

Prerequisites: Physics 131 and 132 unless the student has had an exceptionally strong course in high school physics; a working knowledge of the simpler operations of differential and integral calculus or registration in Mathematics 361.

Mechanics, heat, magnetostatics and electrostatics. Four hours per week devoted to classroom discussion of the reading and problem assignments and three hours per week devoted to laboratory measurements.

Physics 232. General College Physics. Five hours.

Continuation of Physics 231. Electrostatic theory; electrodynamics; acoustics; optics; electromagnetic radiations.

Physics 301. Physical Manipulations. Two hours.

The course consists of shop work, including the construction of special pieces of apparatus for the laboratory.

Physics 331. Nuclear Physics. Three hours.

Prerequisite: Open only to junior and senior science students.

Atomic structure; X-rays; radioactivity; isotopes and nuclear structure; nuclear radiation; nuclear reactions; nuclear fission; chain reaction; radioactive tracers; health physics.

Physics 332. Electricity and Magnetism. Three hours.

Prerequisites: Physics 232 and Mathematics 362.

Electrostatic and electromagnetic fields, capacitance, dielectrics, electric images, measurement of current, potential and resistance; direct and alternating machines and meters; network and transformers. Two hours classroom discussion and two hours laboratory per week.

Physics 341. Introduction to Atomic Physics. Three hours.

Prerequisites: Physics 232 and Mathematics 362.

Elementary charged particles; electromagnetic radiation; waves and particles; atomic spectra and electron distribution; radioactivity; nuclear disintegration and energy.

Physics 361. Fundamentals of Electronics. Three hours.

Prerequisite: Physics 232, or consent of the instructor.

Review of the fundamentals of electricity and magnetism; study of the characteristics of vacuum tubes, rectifiers, amplifiers, oscillators and gas filled tubes; experiment, observation and measurement with vacuum tubes, gas filled tubes, cathode ray tubes, transmitters, and receivers. Two hours per week devoted to classroom discussion of the reading and problem assignments and two hours per week in the laboratory.

Physics 471. Special Problems in Physics. One to three hours.

Prerequisite: Senior standing.

To provide opportunity for continued study for a single student or a group of students who have developed some special interest during their previous work in the field of physics. Work may be in

the nature of reading and reporting on some standard work; the working of problems in mathematical physics; laboratory measurement; experimental or construction work.

Physics 483. (Also Mathematics 483.) Theoretical Mechanics: Statics. Three hours.

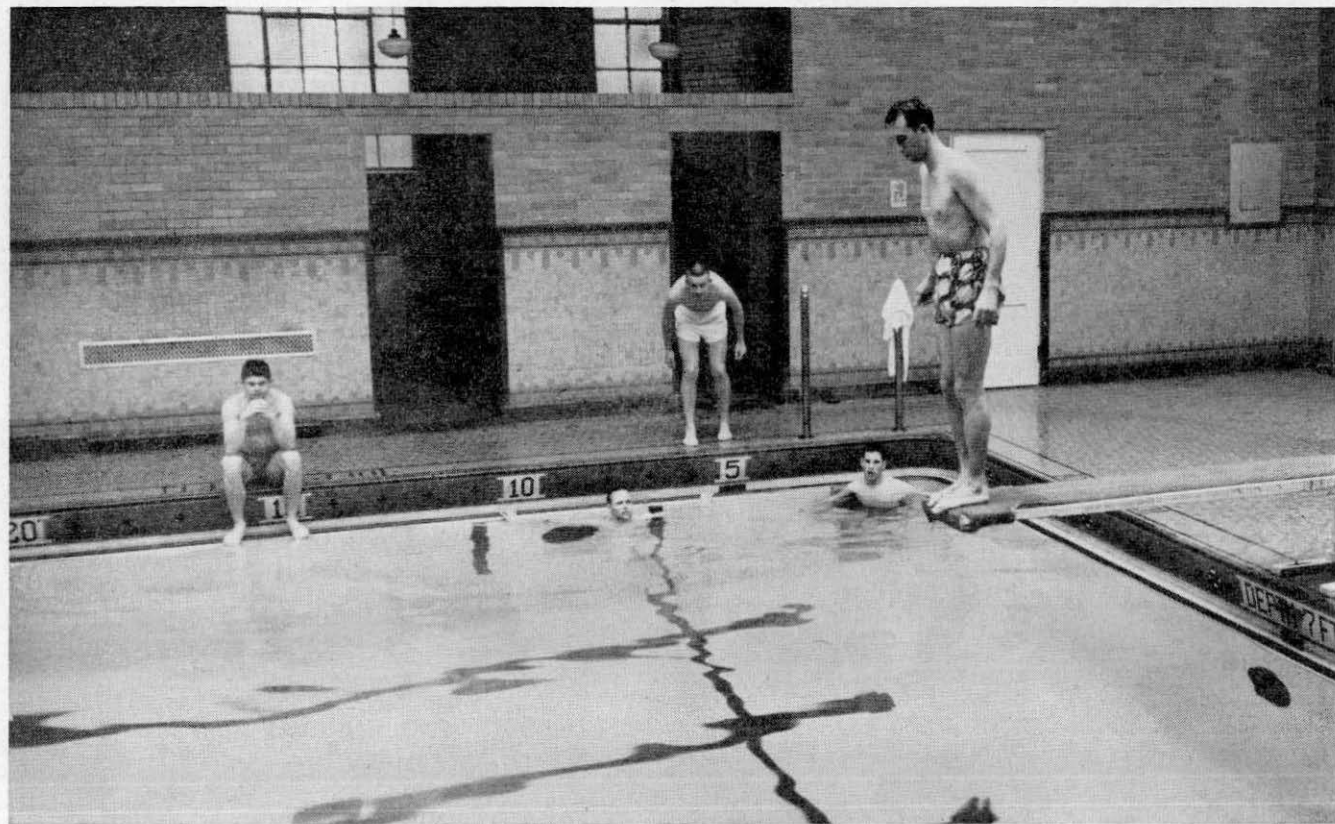
Prerequisites: Physics 232 and Mathematics 362.

Vectors, equilibrium, frames, virtual work, inertia, friction, elasticity, and applications.

Physics 484. (Also Mathematics 484.) Theoretical Mechanics: Dynamics. Three hours.

Prerequisite: Physics 483.

Continuation of Physics 483. Kinematics, energy, motion, impulse, and collisions.





INDEX

	Page		Page
Absences, Regulation		Laboratory	30
Concerning	28	Late Registration	31
Administration Building	20	Laundry	30
Administrative Staff	7	Medical	30
Admission to Advanced Standing	23	Part-Time	32
Admission to Freshman Class	23	Physical Examination	30
Admission to Graduate Work	54	Room Reservation	25
Admission as a Special Student	23	Student Activities	30
Admission as an Auditor	24	Swimming	31
Admission of Veterans	24	Yearbook	31
Ariculture, Courses in	57	Financing	30
Agriculture, Major and Minor		Fine Arts Building	22
Requirements	56	Foreign Language	106
Areas of Concentration	49	French, Courses in	107
Art, Courses in	63	French, Major and Minor	
Art, Major and Minor		Requirements	106
Requirements	61	Freshmen, Information for	37
Astronomy, Courses in	152	General Information	19
Athletics, Intercollegiate	41	Geography, Courses in	111
Auditorium—Gymnasium	20	Geography and Geology, Major	
Bachelor's Degree, General		and Minor Requirements	109
Requirements	47	Geology, Courses in	113
Bachelor's Degrees without		German, Courses in	108
Certificates, Requirements for	53	Graduate Instruction	54
Biology, Courses in	155	Admission to Graduate Work	54
Biology, Major and Minor		Admission to Candidacy	54
Requirements	152	Fees for	32
Board of Regents	6	General Requirements for	
Boarding Facilities	26	Master's Degree	54
Breckinridge Training School	21	Thesis Requirements	55
Building and Equipment	19	Graduation Fee	31
Business Administration, Require-		Graduation, Requirements for	47
ments for Degree in	70	Guidance Service	42
Cafeteria	20	Health and Physical Education,	
Calendar, 1953-54	3	Courses in	115
Calendar, 1954-55	4	Health and Physical Education,	
Certification for Teaching	50	Major and Minor Requirements	113
Change in Schedule	27	Health Program	40
Change in Schedule Fee	31	History, Courses in	122
Chemistry, Courses in	161	History, Major and Minor	
Chemistry, Major and Minor		Requirements	120
Requirements	159	History of the College	19
Commencement	41	Home Economics, Courses in	131
Commerce, Courses in	75	Home Economics, Major and Minor	
Commerce, Major and Minor		Requirements	129
Requirements	68	Industrial Arts, Courses in	138
Committees	17	Industrial Arts, Major and Minor	
Convocation Exercises	41	Requirements	136
Correspondence	35	Ink Pot	42
Credit, Regulations Concerning	32	Jayne Memorial Stadium	21
Credit, Veterans	24	Johnson-Camden Library	21
Curricula	47	Laboratory Fee	30
Degrees	47	Late Entrance, Fee for	31
Discipline	29	Laundry Fee	30
Dormitories	20	Library Science, Courses in	140
Dramatics, Courses in	105	Library Science, Minor	
Dramatics, Minor Requirements	104	Requirements	140
Economics, Courses in	83	Location of College	19
Economics and Sociology, Major		Lyceum and Special	
and Minor Requirements	81	Entertainments	40
Education, Courses in	89	Machine Shop	22
Education, Requirements	88	Majors and Minors	48
Employment	33	Marking System	28
English, Courses in	101	Master's Degree, Requirements	
English, Major and Minor		for	54
Requirements	98	Mathematics, Courses in	164
Entertainments	40	Mathematics, Major and Minor	
Expenses, Summary of	32	Requirements	164
Extension, Courses in	35	Medical Fee	30
Faculty	8	Music, Courses in	144
Failure in Other Colleges	26	Music, Major and Minor	
Fees—		Requirements	141
Change of Schedule	31	Numbering of Courses	28
Graduate Instruction	32	Nursing, Courses in	150
Graduation	31	Nursing, Requirements	149
Incidental	29	Organizations, Student	43

INDEX—Continued

	Page		Page
Part-Time Fees	32	Registration	38
Payment, Terms of	30	Registration, Late	31
Physical Education, Courses in	115	Religious Environment	40
Physical Education, Major and Minor Requirements	113	Religious Organizations	45
Physical Examination Fee	30	Reservoir Area	22
Physics, Courses in	169	Room Reservations	25
Physics, Major and Minor Requirements	168	Rooms for Married Couples	26
Political Science, Courses in	126	Rooms, Regulations Concerning	25
Political Science, Major and Minor Requirements	120	Schedule, Change in	27
Power Plant	22	Scholarship Points	28
President's Home	20	Scholarships	33
Probation, Scholastic	28	Scholastic Probation	28
Programs of Study Suggested—		Science, Area Major	
Agriculture	56	Biology Emphasis	152
Art	61	Chemistry Emphasis	159
Commerce	71	Physics Emphasis	167
Economics and Sociology	82	Science, General Education	
Elementary Certification	88	Requirements	151
English	99	Science Hall	21
Geography and Geology	110	Secretarial Courses, see Commerce	
Health and Physical Education	114	Secretarial Program	71
History	122	Senff Natatorium	21
Home Economics	130	Social Science, Area Major	120
Industrial Arts	137	Sociology, Courses in	85
Nursing	149	Sociology and Economics, Major and Minor Requirements	81
Pre-Dental	154	Spanish, Courses in	108
Pre-Engineering	169	Special Students, Admission	23
Pre-Medicine	154	Speech and Dramatics, Courses in	104
Science Area		Speech, Minor Requirements	104
Biology Emphasis	153	Student Activities Fee	30
Chemistry Emphasis	160	Student Employment, Opportunities for	33
Physics Emphasis	168	Student Load	27
Secretarial Area	89	Student Organizations	43
Social Science	121	Student Teaching, see Education	
Provisional High School Certificate, Requirements for	51	Swimming Fee	31
Provisional Elementary Certificate, Requirements for	50	Testing Bureau	42
Psychology, see Education		Thesis, Master's	55
Publications, Student	41	Trail Blazer	41
Quality of Work	28	Transfer from Other Colleges	23
Raconteur	42	Veterans' Admission	24
Refunds, Regulations Concerning	32	Veterans' Credit	24
		Week-End Classes	34
		Withdrawals	29
		Yearbook Fee	31

