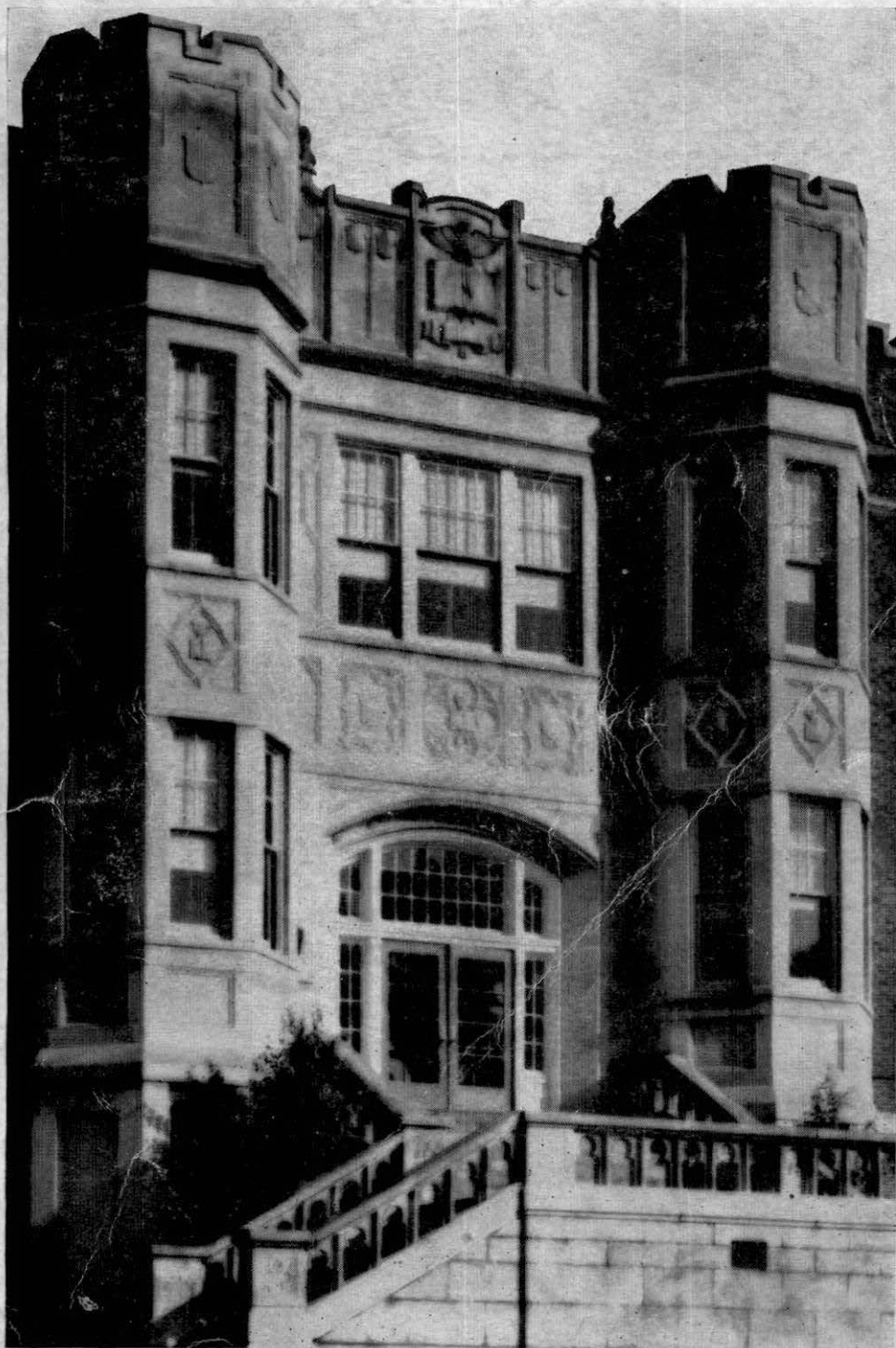


Wm. D. Cawley
MOREHEAD STATE COLLEGE
Morehead, Kentucky



BULLETIN

OF THE

Morehead State College

Morehead, Kentucky

GENERAL CATALOG

1949-50

1950-51

MEMBER

Kentucky Association of Colleges and Secondary Schools
Southern Association of Colleges and Secondary Schools
American Association of Colleges for Teacher Education

Volume 19

April, 1949

No. 1

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COLLEGE CALENDAR, 1949-50

FIRST SEMESTER

September 14	Wednesday	Registration of all students.
September 15	Thursday	Classes begin.
September 16	Friday	Last day to register for full load.
September 21	Wednesday	Last day to register for credit.
October 10	Monday	Students who drop courses after this date will automatically receive marks of "E" in the courses dropped.
October 17	Monday	Freshman grade reports to Registrar.
November 10	Thursday	EKEA holiday begins at 12:00 M.
November 14	Monday	Class work resumed at 8:00 A. M.
November 21	Monday	Mid-term reports to Registrar.
November 24	Thursday	Thanksgiving holiday—one day only.
December 20	Tuesday	Christmas holiday begins at 4:00 P. M.
January 4	Wednesday	Class work resumed at 8:00 A. M.
January 24	Tuesday	Final examinations begin.
January 26	Thursday	First semester closes at 4:00 P. M.
January 27	Friday	Grades to Registrar by 12:00 M.

SECOND SEMESTER

January 30	Monday	Registration of all students.
January 31	Tuesday	Classes begin.
February 1	Wednesday	Last day to register for full load.
February 7	Tuesday	Last day to register for credit.
March 6	Monday	Students who drop courses after this date will automatically receive marks of "E" in the courses dropped.
April 3	Monday	Mid-term reports to Registrar. Registration for Spring Term.
April 6	Thursday	Scholarship Day.
April 19	Wednesday	Spring vacation begins at 4:00 P. M.
April 24	Monday	Class work resumed at 8:00 A. M.
May 4	Thursday	Citizenship Day.
May 28	Sunday	Baccalaureate sermon.
May 30	Tuesday	Final examinations begin.
May 31	Wednesday	Commencement exercises.

MOREHEAD STATE COLLEGE

June 1	Thursday	Second semester closes at 4:00 P. M.
June 2	Friday	Grades to Registrar by 12:00 M.

SUMMER TERM—1950

June 5	Monday	Registration of all students.
June 6	Tuesday	Classes begin. Last day to register for full load.
June 8	Thursday	Last day to register for credit.
June 19	Monday	Students who drop courses after this date will automatically receive marks of "E" in the courses dropped.
July 4	Tuesday	Holiday—one day only.
July 28	Friday	Summer term closes at 4:00 P. M.

ADMINISTRATIVE STAFF

WILLIAM JESSE BAIRD	<i>President</i>
WARREN C. LAPPIN	<i>Dean-Registrar</i>
GEORGE WELLS	<i>Dean of Students</i>
WILLIAM M. CAUDILL	<i>Director of Public Relations</i>
MONROE WICKER	<i>Director of Training School</i>

BUSINESS OFFICE

HERBERT H. HOGAN	<i>Business Manager</i>
CHARLES T. APEL	<i>Assistant Business Manager</i>
HARLAN BLAIR	<i>Cashier</i>
LOUISE MULLINS	<i>Clerk</i>
NETTIE JAMISON	<i>Machine Operator</i>
VIRGINIA B. WILKINSON	<i>Clerk</i>
W. H. RICE	<i>Superintendent of Buildings and Grounds</i>
MRS. ALLIE MANNING	<i>Bookstore</i>
KATE B. HILL	<i>Fields Hall</i>
OCTAVIA GRAVES	<i>Allie Young Hall</i>
W. B. JACKSON	<i>Men's Hall</i>
J. T. MAYS	<i>Thompson Hall</i>
STANLEY RADJUNAS	<i>Veteran's Village</i>

REGISTRAR'S OFFICE

WARREN C. LAPPIN	<i>Registrar</i>
MARY ELLA LAPPIN	<i>Assistant to the Registrar</i>
VIRGINIA HUDGINS	<i>Clerk</i>
GEORGANNA OCKERMAN	<i>Clerk</i>

LIBRARY

IONE M. CHAPMAN	<i>Librarian</i>
MARY MARGUERITE BISHOP	<i>Assistant Librarian</i>

SECRETARIES

ANNA B. CARTER	<i>President's Office</i>
MYRNA E. FREELAND	<i>Dean's Office</i>
VIRGINIA CAUDILL	<i>Business Office</i>
VIVIAN YOUNG	<i>Department of Buildings and Grounds</i>
HELEN DOROTHY PATRICK	<i>Training School</i>

THE FACULTY

- WILLIAM JESSE BAIRD, B.S., M.S., LL.D.....*President*
 B.S., Berea College, 1919
 M.S., Cornell University, 1924
 LL.D., Berea College, 1944
 Morehead State College since 1946
- WARREN C. LAPPIN, A.B., A.M., Ed.D.....*Dean-Registrar*
 A.B., Transylvania College, 1920
 A.M., University of Chicago, 1929
 Ed.D., Indiana University, 1941
 Morehead State College since 1926
- ROSS C. ANDERSON, B.S., A.M.....*Associate Professor*
 B.S., Eastern (Ky.) State College, 1933 *of Commerce*
 A.M., University of Kentucky, 1938
 Morehead State College since 1938
- CHARLES T. APEL, B.S., M.S.....*Associate Professor*
 B.S., University of North Dakota, 1925 *of Commerce*
 M.S., University of North Dakota, 1926
 Morehead State College since 1948
- WILLARD A. BALLOU, B.S., A.M., Ph.D..... *Professor of Physics*
 B.S., Teachers College, Columbia
 University, 1913
 A.M., Columbia University, 1915
 Ph.D., University of Pennsylvania, 1932
 Morehead State College since 1948
- 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
- JAMES GILBERT BLACK, B.S., M.S.....*Instructor in*
 B.S., Morehead State College, 1942 *Industrial Arts*
 M.S., Stout Institute, 1947
 Morehead State College since 1947

- 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,
 Morehead State College, 1940 to 1946, Head of
 since 1948 Department
- WILLIAM EMMETT BRADLEY, A.B., A.M.....Assistant Professor
 A.B., University of Kentucky, 1925 of English
 A.M., University of Kentucky, 1926
 Morehead State College since 1932
- CATHERINE L. BRAUN, B.S.....Assistant Professor
 B.S., George Peabody College, 1926 of Geography
 Morehead State College since 1923
- HENRY AMES CAREY, A.B., A.M., Ph.D.....Professor of
 A.B., University of California, 1922 Sociology and
 A.M., University of California, 1925 Economics,
 Ph.D., Columbia University, 1930 Head of
 Morehead State College since 1944 Department
- FLORENCE CARPENTER, A.B., M.S.....Instructor in Music
 A.B., Wellesley, 1926
 M.S., Columbia University, 1928
 Morehead State College since 1946
- WILLIAM M. CAUDILL, B.S., M.S.....Director of Public
 B.S., Peabody College, 1922 Relations
 M.S., University of Chicago, 1927
 Morehead State College since 1948
- IONE M. CHAPMAN, A.B., A.M., B.S. in Lib. Sci.....Librarian
 A.B., University of Illinois, 1925
 A.M., Columbia University, 1928
 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,
 A.M., Teachers College, Columbia Head of
 University, 1932 Department
 Morehead State College since 1925
- ALICE EVELYN COX, B.S., A.M.....Instructor in
 B.S., Bowling Green Business Commerce
 University, 1926
 A.M., University of Kentucky, 1948
 Morehead State College since 1948

*LORENE SPARKS DAY, A.B., A.M.....	<i>Instructor in</i>
A.B., Kentucky Wesleyan College, 1929	<i>Education,</i>
A.M., Teachers College, Columbia	<i>Supervising</i>
University, 1932	<i>Teacher in Social</i>
Morehead State College since 1930	<i>Science</i>
SAM J. DENNEY, A.B., A.M.....	<i>Instructor in</i>
A.B., University of Kentucky, 1928	<i>Education,</i>
A.M., University of Kentucky, 1932	<i>Supervising</i>
Morehead State College since 1936	<i>Teacher in</i>
	<i>English</i>
THELMA EVANS, A.B., A.M.....	<i>Assistant Professor</i>
A.B., University of Kentucky, 1930	<i>of Education,</i>
A.M., University of Kentucky, 1940	<i>Supervising</i>
Morehead State College since 1943	<i>Teacher First</i>
	<i>Grade</i>
WILHELM EXELBIRT, Ph.D.....	<i>Associate Professor</i>
Ph.D., University of Vienna, 1929	<i>of History</i>
Morehead State College since 1948	
LINUS A. FAIR, A.B., A.M.....	<i>Associate Professor</i>
A.B., Arkansas State Teachers College,	<i>of Mathematics</i>
1925	<i>and Physics</i>
A.M., George Peabody College, 1930	
Morehead State College since 1932	
NEVILLE FINCEL, A.B., A.M.....	<i>Assistant Professor</i>
A.B., University of Kentucky, 1921	<i>of Economics</i>
A.M., University of Kentucky, 1932	
Morehead State College since 1930	
NOLAN FOWLER, A.B., A.M.....	<i>Associate Professor</i>
A.B., Marshall College, 1939	<i>of History and</i>
A.M., University of Kentucky, 1940	<i>Political Science</i>
Morehead State College since 1943	
MARVIN GEORGE, B.S., A.M.....	<i>Associate Professor</i>
B.S., State College, Bowling Green,	<i>of Music,</i>
Ohio, 1930	<i>Head of</i>
A.M., Teachers College, Columbia	<i>Department</i>
University, 1931	
Morehead State College since 1931	
PRISCILLA GIBSON, B.S., A.M.....	<i>Instructor in Home</i>
B.S., Buffalo State College, 1940	<i>Economics</i>
A.M., Columbia University, 1946	
Morehead State College since 1946	

*Leave of absence, 1948-1949.

- 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.....Instructor in Music
 B.Mus., Northwestern University, 1923
 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.....Instructor in Music
 A.B., Morehead State College, 1943
 A.M., University of Iowa, 1947
 Morehead State College since 1947
- INEZ FAITH HUMPHREY, A.B., A.M.....Associate Professor
 A.B., Eureka College, 1910 of English
 A.M., University of Chicago, 1927
 Morehead State College since 1923
- WARD B. JACKSON, A.B., A.M.....Assistant Professor
 A.B., University of Kentucky, 1928 of Education
 A.M., University of Kentucky, 1932
 Morehead State College since 1935
- MARY ELIZABETH KENNEDY, R.N.....School Nurse,
 Morehead State College since 1948 Department of
 Health and
 Physical
 Education
- RIENZI WILSON JENNINGS, B.S., A.M.....Professor of
 B.S., University of Iowa, 1927 Commerce,
 A.M., University of Kentucky, 1928 Head of
 Morehead State College since 1938 Department
- ELLIS TUCK JOHNSON, A.B., A.M.....Associate Professor
 A.B., University of Kentucky, 1932 of Health and
 A.M., University of Kentucky, 1937 Physical
 Morehead State College since 1936 Education,
 Head Coach

MOREHEAD STATE COLLEGE

ROBERT G. LAUGHLIN, A.B., A.M.....	Assistant Professor of Health and Physical Education, Assistant Coach
A.B., Morehead State College, 1937	
A.M., University of Kentucky, 1941	
Morehead State College since 1935	
JESSE T. MAYS, A.B., A.M.....	Assistant Professor of Industrial Arts, Head of Department
A.B., Union College, 1931	
A.M., George Peabody College, 1933	
Morehead State College since 1933	
HUBERT J. MCSHEA, A.B., A.M., Ph.D.....	Assistant Professor of Education, Director of Testing Bureau
A.B., Catholic University of America, 1938	
A.M., Catholic University of America, 1942	
Ph.D., Catholic University of America, 1945	
Morehead State College since 1947	
GUY S. MILES, A.B., A.M., Ph.D.....	Professor of English, Head of Department of Languages and Literature
A.B., Cornell University, 1928	
A.M., Cornell University, 1929	
Ph.D., Vanderbilt University, 1940	
Morehead State College since 1948	
JUANITA MINISH, A.B., A.M.....	Instructor in Education, Supervising Teacher of Foreign Language
A.B., Transylvania College, 1919	
A.M., George Peabody College, 1930	
Morehead State College since 1930	
AMY IRENE MOORE, B.S., A.M.....	Instructor in Education, Supervising Teacher Mathematics
B.S., Kansas State Teachers College, 1917	
A.M., University of Chicago, 1925	
Morehead State College since 1932	
EDNA NEAL, A.B., A.M.....	Assistant Professor of Education, Supervising Teacher Second Grade
A.B., University of Kentucky, 1929	
A.M., Teachers College, Columbia University, 1933	
Morehead State College since 1929	
HAZEL NOLLAU, B.S., M.S.....	Instructor in Education, Supervising Teacher of Science
B.S., University of Kentucky, 1934	
M.S., University of Kentucky, 1935	
Morehead State College since 1943	

- PAUL C. OVERSTREET, A.B., M.S.....*Instructor in*
 A.B., Asbury College, 1913 *Mathematics and*
 M.S., University of Iowa, 1925 *Physics*
 Morehead State College since 1946
- NATHAN H. PEPPER, B.S., A.M.....*Associate Professor*
 B.S., North Carolina State College, 1936 *of Health and*
 A.M., New York University, 1941 *Physical*
 Morehead State College since 1948 *Education,*
Head of
Department
- CLIFFORD R. RADER, A.B., A.M., Ph.D.....*Associate Professor*
 A.B., Eastern (Ky.) State College, 1934 *of History and*
 A.M., University of Kentucky, 1937 *Government,*
 Ph.D., University of Kentucky, 1945 *Head of*
 Morehead State College since 1947 *Department*
- STANLEY RADJUNAS, A.B., A.M.....*Instructor in Health*
 A.B., Morehead State College, 1940 *and Physical*
 A.M., Morehead State College, 1946 *Education,*
 Morehead State College since 1946 *Assistant Coach*
- CLYDE F. REED, A.B., A.M., Ph.D.....*Associate Professor*
 A.B., Loyola College, 1938 *of Biology*
 A.M., Johns Hopkins University, 1940
 Ph.D., Harvard University, 1942
 Morehead State College since 1947
- VIRGINIA RICE, B.S.....*Instructor in*
 B.S., University of Kentucky, 1927 *Education,*
 Morehead State College since 1947 *Supervising*
Teacher of
Home Economics
- ELIZABETH ROOME, B.S., A.M.....*Assistant Professor*
 B.S., Columbia University, 1924 *of Education,*
 A.M., University of North Carolina, 1930 *Supervising*
 Morehead State College since 1931 *Teacher*
Third Grade
- LENA T. SAUNDERS, A.B., A.M.....*Instructor in*
 A.B., Morehead State Teachers College,
 1937 *Education,*
 A.M., University of Kentucky, 1944 *Supervising*
 Morehead State College since 1948 *Teacher of*
Social Science

- RUTH SCHMITT, A.B., A.M. *Assistant Professor
of English*
A.B., New York State College for
Teachers, 1944
A.M., Teachers College, Columbia
University, 1947
Morehead State College since 1947
- ERA MAE SMELLEY, B.S., A.M. *Instructor in
Education,
Supervising
Teacher
Fifth Grade*
B.S., Stephen F. Austin State College,
1935
A.M., Stephen F. Austin State College,
1941
Morehead State College since 1948
- JAMES A. STOOPS, A.B., A.M., Ph.D. *Professor of
Chemistry*
A.B., DePauw University, 1933
A.M., Indiana University, 1934
Ph.D., Indiana University, 1938
Morehead State College since 1947
- JOHN THOMAN, B.S. *Instructor in Music*
B.S., University of Kentucky, 1942
Morehead State College since 1946
- REBECCA THOMPSON, B.S., A.M. *Assistant Professor
of Education,
Supervising
Teacher
Sixth Grade*
B.S., George Peabody College, 1925
A.M., George Peabody College, 1929
Morehead State College since 1929
- ZELL S. WALTER, B.S., A.M., Ed.D. *Professor of
Education,
Head of
Department*
B.S., Ohio Northern University, 1925
A.M., University of Chicago, 1932
Ed.D., University of Cincinnati, 1942
Morehead State College since 1948
- BLANCHE WALTZ, B.S. *Instructor in
Education,
Supervising
Teacher
Fourth Grade*
B.S., University of Louisville, 1928
Morehead State College since 1947
- GEORGE WELLS, B.S., Ph.D. *Professor of
Education,
Dean of Students*
B.S., Kansas State Teachers College, 1924
Ph.D., State University of Iowa, 1932
Morehead State College since 1948
- GLADYS H. WELLS, B.S. *Instructor in
Physical Education*
North Texas State Teachers
College, 1934
Morehead State College since 1948

- FENTON T. WEST, A.B., M.S., Ph.D.....*Professor of Biology,*
 A.B., Marshall College, 1927 *Head of Division*
 M.S., West Virginia University, 1931 *of Science and*
 Ph.D., Ohio State University, 1945 *Mathematics*
 Morehead State College since 1947
- MONROE WICKER, A.B., A.M..... *Director of Training*
 A.B., Tusculum College, 1930 *School,*
 A.M., University of Kentucky, 1940 *Director of*
 Morehead State College since 1947 *Placement*
Bureau
- 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
- WERNER WITT, Ph.D.....*Assistant Professor*
 Ph.D., University of Berlin, 1935 *of Languages and*
 Morehead State College since 1948 *Literature*
- GEORGE THOMPSON YOUNG, A.B., A.M.....*Instructor in*
 A.B., Centre College, 1931 *Education,*
 A.M., Teachers College, Columbia *Supervising*
 University, 1935 *Teacher in*
 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

COMMITTEES

EXECUTIVE

BAIRD, BANKS, HILL, HOGAN, LAPPIN, WELLS, WICKER

IMPROVEMENT OF INSTRUCTION

LAPPIN, ANDERSON, BLACK, EVANS, JACKSON, MCSHEA, STOOPS,
WALTER, WEST

LIBRARY

FOWLER, BANKS, CHAPMAN, CLAYPOOL, GRAVES, REED, THOMPSON

SOCIAL

WELLS, GRAVES, JACKSON, MAYS, RADJUNAS, THOMAN, THOMAS YOUNG

GRADUATE INSTRUCTION

LAPPIN, CAREY, MILES, WALTER, WEST

ATHLETIC

FAIR, ANDERSON, HOGAN, JACKSON, JOHNSON, LAPPIN, MAYS, PEPPER,
RICE, WELLS

BUILDINGS AND GROUNDS

HAGGAN, JENNINGS, MOORE, RICE, THOMAS YOUNG

SPECIAL ENTERTAINMENTS

GEORGE, BANKS, CAUDILL, NEAL, SCHMITT, WILKES

CURRICULUM

LAPPIN, BOLIN, CAREY, CLAYPOOL, HAGGAN, JENNINGS, MILES, WALTER,
WEST

CHRISTIAN ORGANIZATIONS

BANKS, BRAUN, HAGGAN, HUMPHREY, ROOME, WELLS

TRAIL BLAZER

BRADLEY, CAUDILL, CLAYPOOL, WICKER

GUIDANCE

LAPPIN, ANDERSON, MCSHEA, WELLS, WILKES

STUDENT LOAN

GEORGE, FAIR, JACKSON, MCSHEA, MINISH, WELLS

PUBLIC RELATIONS

CAUDILL, BANKS, BRADLEY, EVANS, RADER, THOMAN, WICKER

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.

The institution has been administered by five presidents—Frank C. Button, 1923-1929; John Howard Payne, 1929-1935; H. A. Babb, 1935-1940; William H. Vaughan, 1940-1946; and William Jesse Baird, 1946—.

LOCATION

The 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 of approximately seventy-five acres has a background of mountains and extends toward the southeast into the athletic field. 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 splendid 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, the Science Hall, and the President's home form an arc to the west of the campus, while Thompson Hall, Breckinridge Training School, 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.

THE 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 reception parlors and recreation 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 sixty-five men. Both dormitories are modern throughout and are well equipped and furnished.

THE 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.

THE 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.

THE AUDITORIUM-GYMNASIUM

The auditorium and gymnasium are enclosed in one building. The gymnasium has a large playing floor and bleachers accommodating nine hundred, 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.

THE JOHNSON CAMDEN LIBRARY

The 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 40,000 catalogued books, a complete magazine section, and a large collection of bulletins, pamphlets, and public documents.

THE BRECKINRIDGE TRAINING SCHOOL

The 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, the auditorium and the lower grade rooms occupy the main floor; the junior and senior high school home-

rooms, the second; the home economics and science laboratories, the library, and the 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.

THE JAYNE MEMORIAL STADIUM

The 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.

THE SENFF NATATORIUM

Located west of the Auditorium-Gymnasium is the 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 interior of the building contains a beautiful 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, and home economics. These departments are thoroughly equipped with the latest and most modern apparatus.

POWER PLANT

The power plant, completed in 1937 by a P.W.A. grant, furnishes water, power and heat for the college. It assures Morehead one of the best water systems in the state.

INSTRUCTIONS TO STUDENTS

PROCEDURE FOR ADMISSION

All correspondence concerning admissions should be addressed to the 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. The college does not accept transferred credit carrying a mark of "D." Credit for correspondence work completed after September 1, 1948, will not be accepted. 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 59 of this catalog.

ADMISSION OF VETERANS:

The veteran who has served at least three months in the armed services may be admitted to Morehead in one of the following ways:

1. The veteran who is a graduate of an accredited high school and presents at least fifteen acceptable high school units, may be admitted as a regular student without examination.
2. A veteran who is not a graduate of an accredited high school but who presents fifteen acceptable units, may enter provided he passes the entrance examinations satisfactorily.
3. A veteran who does not meet the entrance requirements may be admitted as a special student although he is not twenty-one years of age. Before a veteran who is a special student can become a candidate for a degree he must have his status changed to that of a regular student. This may be done in one of two ways:

- a. By satisfying the requirements for admission to the freshman class.
- b. By completing two years of work in this college with an average standing of at least 1.5 on all work attempted.

CREDIT GRANTED TO VETERANS FOR SERVICE

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

Credit will be granted for work taken in the Army Specialized Training and the Navy V-12 programs on the same basis as any other work taken in accredited colleges or universities. Transcripts of this work must be on file in the Registrar's Office at the time of entrance, but such credits will not be entered on the student's record until he has completed a semester in residence in this institution.

Credit for specialized training taken in other than accredited institutions will be allowed on the basis of proficiency examinations, information compiled by the American Council on Education, and the services of the Armed Forces Institute. Application for credit for this work should be made directly to Morehead on the USAFI Form 47 (Revised). The amount of credit earned in any of the AST, or any other special training programs, to count on major or minor requirements will be determined by the dean of the college, together with the head of the major department.

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 retained by the college as a deposit fee. If all obligations to the college have been fulfilled when the student leaves at the close of any term or semester this deposit fee is refunded. 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 to 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.

RULES CONCERNING STUDENTS RESIDING IN PRIVATE HOMES

The college maintains a list of approved private homes where students may room. Young women 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 school.

Every woman student not residing in the dormitories is required to register her address with the Dean of Students on the day of registration.

Students living off-campus will make their own financial arrangements in 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 veterans and their families.

There are also places in the community where light house-keeping 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 \$7.00 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 the 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 $16\frac{1}{2}$ semester hours 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 and the approval of the Executive Committee; 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 the approval of the Executive Committee; 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 and the approval of the Executive Committee.

An exception may be made to the regulations stated in the preceding paragraph when, in the senior year, a student needs not more than three semester hours in excess of his regular load to graduate. In this case the student may be permitted to take during the year not to exceed three semester hours more than his standing would normally permit, provided that the total load is not greater than 21 semester hours during any one semester.

The minimum student-load for a full-time graduate student is nine semester hours and the maximum load that may be carried by a graduate student during a semester is 16 hours.

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

THE MARKING SYSTEM

The grade of work done by students will be marked by letters as follows:

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

(A course in which an "I" is received must be completed within the first thirty days of the next semester 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 whenever it is possible to do so.

In any event, arrangements for such excuses must be made within three days after the student returns to class. (Arrangements for these absences must be made in the Dean's office.)

Other absences during a term are generally left to the instructors of the classes in which they occur. Students are expected to explain to their instructors the cause of these absences and to make up all omitted work to the satisfaction of their instructors. Cases of extended or repeated absences will be referred to the Dean and will be dealt with by him.

Credit will not be granted in any course and an "E" will be recorded if a student's total absences in the course, from all causes, exceeds 20 per cent of the number of class meetings in any semester or term.

DISCIPLINE

When students enroll in the 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, will make whatever regulations that 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 of Kentucky is \$55.00 per semester. This incidental fee is payable at the time of registration.

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.

DEPOSIT FEE:

A general deposit fee of \$3.00 is required of all students to cover any possible damage to school property, or to pay for books taken from the library and not returned. After deducting charges for such damages when a student withdraws at the close of any semester or term, the remainder of this deposit is returned. Such damages to school property as can be traced to an individual are charged to him.

Breakage in all laboratory courses must be paid for by the student.

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 service 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.

LABORATORY FEE:

No special course 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.

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 in former years, a fee of \$3.00 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. Therefore, 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 Registrar or Dean, the student will not be expected to pay this fee.

NECESSARY EXPENSES AT MOREHEAD FOR ONE SEMESTER

Incidental fee	\$35.00
Deposit fee	3.00
Room rent	45.00
Board @ \$7.00 per week approximately	126.00
College post office box rent75
Estimated cost of books	10.00
Laboratory fee	4.50
Student activity fee	4.50
Medical fee	1.50
Laundry fee	2.25
Total	\$232.50

THE FOLLOWING EXPENSES ARE PAYABLE IN ADVANCE FOR THE SEMESTER:

Incidental fee	\$35.00
Deposit fee	3.00
Room rent in the dormitories	45.00
Board in the college cafeteria, 6 tickets	30.00
College post office box rent75
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 faculty.

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.

WEEK-END CLASSES

The college follows the practice of scheduling a limited number of classes on Saturday in order to accommodate in-service teachers. These courses give residence credit. No in-service teacher is permitted to earn more than 4 hours of credit in this type of work during any semester or more than 8 hours during a school year.

INFORMATION OF PARTICULAR INTEREST
TO FRESHMEN

1. What has been the history of the college?

The Morehead State College was established in 1922 and has operated continuously since September, 1923. For a more complete statement see page 15 of this catalog.

2. Is Morehead an accredited institution?

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

- a. The Kentucky Association of Colleges and Secondary Schools.
- b. The Southern Association of Colleges and Secondary Schools.
- c. 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 two-year course for elementary teachers.
- b. A four-year course for elementary teachers.
- c. A four-year course 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.
- d. A four-year course of general academic training with the same opportunities for major study as those listed above. This course does not prepare for teaching.
- e. A four-year course qualifying Smith-Hughes teachers of vocational home economics.
- f. Graduate work leading to the degree of Master of Arts in Education.
- g. One- and two-year courses for stenographers and secretaries.
- h. A four-year course in commerce.
- i. Preliminary training for professional study in medicine, dentistry, law, pharmacy, engineering, nursing, 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 p. 6 of this catalog.

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 p. 32 of this catalog.

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 p. 20 of this catalog.

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, and enclose the Reservation Fee of \$3.00. 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. A minimum scholarship average of "C" must be maintained on all residence courses offered for a degree.

If you are interested in the four-year program for ele-

mentary teachers you should read carefully the material on p. 53 of this catalog; if you are interested in the program for high school teachers read p. 54; and if you are interested in a degree without a teaching certificate read pp. 56 and 57. Students who are interested in pre-professional courses should read the appropriate sections of this catalog. These may be located by referring to the index.

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. However, certain steps are essential and the entering freshman should do the following things in the order indicated—

- a. Go to the Registrar's Office and secure your classification, enrollment cards, room assignment, chapel seat and post office box numbers, and library card.
- b. Consult one of the Freshman Advisers concerning your class schedule. These advisers will be found in a room indicated on your mimeographed Directions for Registration.
- c. Fill out all enrollment forms under the direction of the Freshman Adviser.
- d. Go to the teacher of each of your classes and secure his approval of your enrollment in his course.
- e. After all courses have been approved by the instructors concerned, go to the Dean's office for the final approval of your schedule.
- f. Go to the Business Office and pay your fees.

Note.—You should read carefully the Special Directions for Freshmen and note the schedule of activities arranged for you. You are expected to be present at all of these meetings.

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 p. 31 of this catalog.

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 fire-proof in construction and entirely modern in every respect.

In addition, a limited number of furnished apartments are available for the use of married veterans. Veterans 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 Southern Intercollegiate Athletic Association and 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 pp. 42-45 of this catalog.

AUXILIARY AGENCIES

HEALTH SERVICE

The college maintains a hospital 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 hospital 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 hospital. Students who live off the campus are entitled to the services of the nurse, but they must be removed to the college hospital before they receive such services.

STUDENT LOAN FUND

A Student Loan Fund has been established in Morehead State College, and the money is advanced each semester by the Y. W. C. A. and the Y. M. C. A. The sponsors for these two organizations will receive all applications for loans and will pass on them. The fund may be supplemented at any time by gifts from different individuals and organizations. Upper-class students and those having high scholastic records will be given preference in granting loans. This fund makes it possible for a worthy student to borrow a small sum at a low rate of interest on a personal note.

BUREAU OF EDUCATIONAL SERVICE

A bureau of educational service has been organized under the management of a competent director. The purpose of this bureau is to supplement other forms of field service and to provide a medium for the placement of teachers. It is the desire of the college to render all legitimate and reasonable service in securing employment for all alumni and other qualified students who may desire to teach. Superintendents and boards of

education are requested to report vacancies to the director, and thereby permit the Morehead State College to cooperate with them in helping them secure the services of teachers.

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

There are seven churches in Morehead, representing the following denominations: Baptist, Catholic, Christian, Episcopal, 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 11:00 to 11:50 on Thursday of each week. Special meetings may be called at the same period on other days of the week, as occasion may de-

mand. 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-tenth of one quality point is deducted from the student's scholastic standing 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 exercise 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 Southern Intercollegiate Athletic Association and the Ohio Valley Conference.

COMMENCEMENT

The college has one commencement exercise each year, at the close of the second semester.

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 graduating 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 Saturday 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.

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.

STUDENT ORGANIZATIONS

The Campus Theatre Guild is the dramatic club on the campus. It is organized like a club with officers conducting the business and programs of its bi-monthly meetings. It is open to all students interested in dramatics, but failure to participate in any of its productions brings about exclusion from the club. The Guild produces one major play each semester and as many one-act plays as are feasible.

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

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 Asso-

ciation 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 Home-coming celebration in the Fall and during the graduation festivities at the close of the Spring Quarter.

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 Woman's Athletic 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.

Y.M.C.A. and Y.W.C.A. Early in the history of the college, branches of the Young Men's Christian Association and the Young Women's Christian Association were organized. These organizations try to keep alive the religious spirit of the young people on the campus. Under the auspices of the

Y.W.C.A., vesper services are held from time to time. Members of the faculty and invited guests often take part in these services. While the primary intention of these organizations is to foster the religious life of the students, they often furnish a very wholesome form of social life in the way of informal entertainments. New students are invited to become members of these organizations, and especially are they invited to call upon the members for assistance and advice in their efforts to align themselves with the college life. The college authorities heartily recommend these organizations and lend their support to further the spiritual life of the students.

The MSTC (Mystic) Club was organized in the 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-operative-ness, high ideals, and loyalty. Membership on the Council is secured through election by the student body.

Degrees and Certificates

CURRICULA

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

1. Provisional Elementary Certificate.
2. Standard Elementary Certificate and the degree.
3. Provisional High School Certificate and the degree.
4. Provisional Certificate in Administration and Supervision and the degree.
5. Bachelor's degree without a certificate.
6. Bachelor's degree and the certificate in Vocational Home Economics.
7. Bachelor's degree with an area in business administration.
8. 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, 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.

MAJORS AND MINORS

Not later than the beginning of the sophomore year, the applicants for degrees must file with the Dean their selections of majors and minors. (This does not include those who are applying for the Bachelor of Arts degree with the Standard Elementary Certificate.) The heads of the departments in the major and minor fields must approve the course to be taken 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	History and Government
Art	Home Economics
Biology	Industrial Arts
Chemistry	Mathematics
Commerce	Music
English	Physical Education
French	Physics
Geography and Geology	Sociology and Economics
History	

* In English a major requires a minimum of 30 semester hours and a minor 24 semester hours. (See p. 130.)

† 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

Social Science
Science

Home Economics
Commerce

Music
Art

REQUIREMENTS FOR CERTIFICATES AND DEGREES**THE BACHELOR OF ARTS DEGREE****I. The Bachelor of Arts Degree and the Standard Elementary Certificate****a. EDUCATION**

	Sem. Hrs.
120 Fundamentals of Elementary Education	4
154 Educational Psychology	3
221 Teaching of Arithmetic	3
226 Teaching of Reading	3
325 Supervised Student Teaching	4
350 The Psychology of Childhood	3
420 Principles and Practices in Elementary Education	4
425 Supervised Student Teaching	4
Minimum in education	(28)

b. ENGLISH

101 English Composition	3
102 English Composition	3
226 Literature for Children	3
281 Public Speaking	3
283 Elementary Dramatics	2
To be selected from literature courses numbered above 300	6
Minimum in English	(20)

c. 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

Economics

200 General Economics	3
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Sociology

170 Rural Sociology	3
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Political Science

241 Government of the United States	3
Minimum in social science	(21)

	Sem. Hrs.
d. SCIENCE	
Biology	
101 Introduction to Biological Science	3
102 Introduction to Biological Science	3
Physical Science	
101 Introduction to the Physical Sciences	3
102 Introduction to the Physical Sciences	3
Elective in science to be selected from biology, chemistry, physics, or geology	3
Minimum in science	(15)
e. 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)
f. 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)	
g. AGRICULTURE	
101 General Agriculture	3
h. HOME ECONOMICS	
102 Nutrition for Elementary Teachers	2
i. ELECTIVE	20
j. See General Requirements for the Bachelor's Degree, p. 49.	
Minimum for the degree	128
II. The Bachelor of Arts Degree and the Provisional High School Certificate	
a. EDUCATION	
154 Educational Psychology	3
354 The Psychology of Adolescence	3
472 Fundamentals of Teaching in the Secondary School	4
375 and 475 Supervised Student Teaching	8
Minimum in education	(18)

b. ENGLISH

101 English Composition	3
102 English Composition	3
To be selected from literature courses numbered 200-299	6
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 and music
(Courses offered in fine arts in the Core Curriculum must be other than those required for a certificate)
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

5-17

g. See General Requirements for the Bachelor's Degree, p. 49.

Note: Each student taking the Bachelor of Arts degree must so arrange his program that it will include a minimum of 12 hours in science and 12 hours in social science.

Minimum for the Degree	128
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III. The Bachelor of Arts Degree and the Provisional Certificate in Administration and Supervision

Candidates for this degree and certificate must meet the requirements for either the A.B. degree and Standard Elementary Certificate or the A.B. degree and the Provisional High School Certificate and include in the program of studies the following professional courses:

	Sem. Hrs.
a. Administration and Supervision	(9)
1. Public School Administration and Supervision	3
2. Elementary School Administration and Supervision	3
3. High School Administration and Supervision.....	3
b. Elementary Education	6
c. Secondary Education	6

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

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, p. 49.	

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 and the Provisional Certificate in Administration and Supervision

Candidates for this degree and certificate must meet the requirements for the B.S. degree and the Provisional High School Certificate and include in the program of studies the following professional courses:

	Sem. Hrs.
a. Administration and Supervision	(9)
1. Public School Administration and Supervision	3
2. Elementary School Administration and Supervision	3
3. High School Administration and Supervision ..	3
b. Elementary Education	6
c. Secondary Education	6

III. 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 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.

THE PROVISIONAL ELEMENTARY CERTIFICATE

The first certificate issued on college credit in Kentucky is the Provisional Elementary Certificate. To receive this teaching credential, the student must have completed two years of college work (sixty-four semester hours) with a standing of one or better. At least three-fourths of the credit offered for this certificate must have been earned in residence. The following program is required at Morehead:

a. EDUCATION	Sem. Hrs.
120 Fundamentals of Elementary Education	4
154 Educational Psychology	3
221 Teaching of Arithmetic	3
226 Teaching of Reading	3
325 Supervised Student Teaching	4
Minimum in education	(17)
b. ENGLISH	
101 English Composition	3
102 English Composition	3
226 Literature for Children	3
283 Elementary Dramatics	2
Minimum in English	(11)

c. SOCIAL SCIENCE

Geography

100	Fundamentals of Geography	3
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History

131	History of Civilization	3
132	History of Civilization	3

Sociology

170	Rural Sociology	3
	Minimum in social science	(12)

d. SCIENCE

Biology

101	Introduction to Biological Science	3
102	Introduction to Biological Science	3

or

Physical Science

101	Introduction to the Physical Sciences	3
102	Introduction to the Physical Sciences	3
	Minimum in science	(6)

e. FINE ARTS

Art

121	Public School Art	3
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Music

100	Rudiments of Music	3
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Fine Arts

160	Appreciation of the Fine Arts	3
	Minimum in fine arts	(9)

f. HEALTH AND PHYSICAL EDUCATION

104	Personal Hygiene and Public Safety	2
	Activity courses in physical education	2
	Minimum in health and physical education ..	(4)

g. AGRICULTURE

101	General Agriculture	3
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h. HOME ECONOMICS

102	Nutrition for Elementary Teachers	2
	Minimum for the certificate	64

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 in 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. Transferred credits may not be used to reduce the residence requirements for the degree. A maximum of six semester hours may be offered in fulfillment of course requirements with the approval of the Committee on Graduate Instruction.
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, 336, 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.

Purpose: To give the student a better understanding of agriculture in the welfare of people and industry. To furnish subject matter and materials that enable a teacher to do a better job of teaching related subjects in the grades.

Topics: The part the community plays in meeting the 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.

Purpose: To acquaint the student with the best methods of soil management and conservation.

Topics: 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. (Formerly Agriculture 333, Marketing Classes and Breeds of Livestock.)

Purpose: To familiarize students with the present market requirements and with the origin and development of the more important breeds of farm animals.

Topics: 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.

Purpose: To study the social structure and organization, interaction processes, social institutions, problems, and force of cultural patterns on the individual in rural life, with special emphasis on Kentucky patterns.

Topics: 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.

Agriculture 180. Elementary Field Crops. Three hours.

(Formerly Agriculture 180, Agronomy.)

Purpose: To study the principal grain and forage crops of the nation and the best practices of culture.

Topics: 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 200. General Economics. Three hours.

Prerequisite: Sophomore standing.

Purpose: To give the students in agriculture an economic background essential to the intelligent solution of many of the problems of farm life.

Topics: Economic organization; the laws of price, money, banking, and exchange; problems of business organization; the distribution of wealth and income; the economics of government; the problems of labor.

Agriculture 213. Elementary Landscape Gardening. Three hours.

Purpose: To develop a greater appreciation of beauty on the farm, about the home, and on the school grounds.

Topics: 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 will be 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.

Purpose: To study the development and management of the home and commercial orchard.

Topics: 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.

Purpose: To give training in general farm repair work.

Topics: 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.

Purpose: To present the importance to the farm of both home and commercial flocks and to give the best practices in flock management.

Topics: 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.
(Formerly Ec. 180.)

Prerequisite: Agriculture 200.

Purpose: To give students a practical knowledge of agricultural economics and its relation to national economy. To present the economic principles involved in the problems of the farmer. To review the national policies and programs pertaining to agriculture and their relation to the farmer.

Topics: 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.

Purpose: To acquaint the student with the more important forage crops used in American agriculture together with their importance in the production of livestock and livestock products.

Topics: 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.

Purpose: To study the basic principles underlying farm business methods applied to the successful organization and operation of farm enterprises.

Topics: 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: Biology 101, 210, or 215.

Purpose: To acquaint the student with the laws of inheritance and their application to animal and plant breeding.

Topics: 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 euthenics.

Agriculture 305. Marketing of Farm Products. Three hours.

Prerequisites: Agriculture 200 and 280.

Purpose: To give students a basic understanding of how products are marketed and the various agencies that enter into their distribution.

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

Agriculture 311. Soil Conservation. Three hours.

Purpose: To show that the conservation of soil is closely linked with national welfare, both human and material. To develop an understanding of the approved methods of conservation.

Topics: 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.

Purpose: To make a detailed study of the small fruit industry and its application to Kentucky.

Topics: 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. Biology 101 or 210.

Purpose: To acquaint the student with the use of keys; methods of classification, and economic importance of insects.

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

Agriculture 336. Dairying. (Formerly Ag. 334.) Three hours.

Purpose: To familiarize students with the basic importance of dairy cattle to agriculture and the production and marketing of milk.

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

Agriculture 337. Dairy Cattle Feeding and Management. (Formerly Ag. 335.) Three hours.

Purpose: To acquaint the student with the more intricate problems connected with the dairy industry.

Topics: 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.

Purpose: To acquaint the student with the nature of plant diseases and to classify and study the life cycles of some of the more common causative organisms.

Topics: Significance of plant diseases; classification of fungi; diseases caused by rusts, smut, fleshy fungi, bacteria, and viruses; physiogenic diseases; principles and procedure in the control of plant diseases; resistant varieties and cultural control.

Time: One lecture-discussion and four laboratory hours per week.

Agriculture 415. Animal Nutrition. Three hours. (Formerly Feeds and Feeding.)

Prerequisite: Chemistry 111.

Purpose: To give the student a better understanding of the use of various kinds of feeds in feeding livestock for production and health of animals.

Topics: A study is made of the digestive system of the various kinds of livestock; the 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:

Sem. Hrs.

For a Major:

Art 101, 121, 161, 202, 221, 291, 263 or 264 or 465, 304, 311
or 314, 381, 412 or 415, and 413 27

For a Minor:

Art 101, 121, 161, 202 or 291, 221, 263 or 264 or 465, 311 or
314, and 341 19

For an Area of Concentration in Art:

Art 101, 121, 161, 202, 221, 263, 264, 291, 303, 304, 311, 314,
341, 381, 394, 412, 413, 415, 455, 465, 482, and 493 51

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.

Area of Concentration in Art

FRESHMEN YEAR

First Semester		Second Semester	
Eng. 101—English Composition	3	Eng. 102—English Composition	3
P. E. 100—Orientation in Phys. Ed.	1½	P. E. 100—Orientation in Phys. Ed.	1½
Art 101—Drawing	2	Art 161—Art Appreciation	3
Art 121—Public School Art	3	Art 202—Composition and Drawing	2
Biol. 101—Int. to Biological Science	3	Biol. 102—Int. to Biological Science	3
I. A. 103—Elementary Mechanical Drawing	3	Art 291—Color and Design	2
P. E. 104—Personal Hygiene	2	Educ. 120—Fund. of Elementary Education	4
	<hr/>		<hr/>
	16½		17½

SOPHOMORE YEAR

First Semester		Second Semester	
Eng. —Sophomore literature	2	Eng. —Sophomore literature	2
P. E. —Activity Course	½	P. E. —Activity Course	½
Art 263—Hist. of Arch. and Sculpture	3	Art 264—History of Painting	3
Art 221—Adv. Public School Art	2	Art 303—Studio Problems	2
Educ. 154—Educational Psychology	3	Hist. 132—History of Civilization	3
Ph. Sc. 101—Int. to the Physical Sciences	3	Ph. Sc. 102—Int. to the Physical Sciences	3
Geog. 100—Fundamentals of Geography	3	I. A. 203—Adv. Mechanical Drawing	3
	<hr/>		<hr/>
	16½		16½

JUNIOR YEAR

First Semester		Second Semester	
Eng. —Sophomore literature	2	Art 314—Water Color Painting	2
Art 304—Figure Drawing and Composition	2	Art 482—Commercial Art II	2
Art 331—Commercial Art I	2	Art 394—Stage Design and Marionettes	3
Art 311—Oil Painting I	2	Geog. 331—Europe	3
Educ. 354—Psychology of Adolescence	3	Educ. 472—Fund. of Secondary Education	4
P. E. 285—Community Recreation	2	Elective	2
Elective	2		
	<hr/>		<hr/>
	15		16

First Semester		SENIOR YEAR		Second Semester	
Educ. 325—Student Teaching	4	Educ. 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 493—Costume Design	2		
Geog. 383—Asia	3	Elective	3		
Art 341—Crafts	2				14
		16			

Provisional High School Certificate with the First Major in Art

First Semester		FRESHMEN YEAR		Second Semester	
Eng. 101—English Composition	3	Eng. 102—English Composition	3		
P. E. 100—Orientation in Phys. Ed.	½	P. E. 100—Orientation in Phys. Ed.	½		
Art 101—Drawing	2	Art 161—Art Appreciation	3		
Art 121—Public School Art	3	Biol. 102—Int. to Biological Science	3		
Biol. 101—Int. to Biological Science	3	Educ. 154—Educational Psychology	3		
Hist. 131—History of Civilization	3	Hist. 132—History of Civilization	3		
P. E. 104—Personal Hygiene	2				
		16½			15½

First Semester		SOPHOMORE YEAR		Second Semester	
Eng. ———Sophomore literature	2	Eng. ———Sophomore literature	2		
P. E. ———Activity Course	½	P. E. ———Activity Course	½		
Art 221—Adv. Public School Art	2	Art 202—Composition and Drawing	2		
Art 291—Color and Design	2	Art 263 Hist. of Arch. and Sculpture	} 3		
Soc. 201—Introductory Sociology	3	or			
Ph. Sc. 101—Int. to the Physical Sciences	3	Art 264—History of Painting			
Second Major	3	Ph. Sc. 102—Int. to the Physical Sciences	3		
		Econ. 200—General Economics	3		
		Second Major	3		
		15½			16½

First Semester		JUNIOR YEAR		Second Semester	
Eng. ———Sophomore literature	2	Educ. 472—Fund. of Secondary Education	4		
Educ. 354—Psychology of Adolescence	3	I. A. 203—Adv. Mechanical Drawing	3		
I. A. 103—Elementary Mechanical Drawing	3	Art 381—Commercial Art I	2		
Art 311—Oil Painting I	} 2	Art 304—Figure Drawing	2		
or					
Art 314—Water Color Painting I		P. E. 285—Community Recreation	2		
Second Major	6	Second Major	3		
		16			16

First Semester		SENIOR YEAR		Second Semester	
Educ. 375—Student Teaching	4	Educ. 475—Student Teaching	4		
Art 412—Oil Painting II	} 2	Art 413—Portrait Painting	2		
or					
Art 415—Water Color Paint'g II		Second Major	3		
Second Major	6	Elective	7		
Elective	4				16
		16			

DESCRIPTION OF COURSES

Art 101. Drawing. Two hours.

Purpose: This is a very elementary course in drawing that has been designed to help people express themselves

graphically. It will aid students who have had no previous experience and it will also help to develop the potentialities of the student who has already had drawing experiences. The knowledges and skills gained through this study will furnish teachers with a desirable classroom aid.

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

Art 102. Creative Art. One hour.

Purpose: 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.

Topics: Explanations and demonstrations of handling the selected mediums. 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.

Purpose: To formulate a background for all art study and to present an understanding of the principles involved; to give experience in the handling of various media and the methods of presenting these in the form of activities to children in the elementary grades.

Topics: A study of what art and art appreciation is; the basic elements of art and the functioning of principles of design; the 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 will be spent in observing art being taught in the elementary grades in the Training School.

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

Purpose: 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.

Topics: 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.

Art 161. Art Appreciation. Three hours.

Purpose: To help students solve art problems which they encounter in daily living; to develop the ability to see beauty and art quality wherever they may be found; to recognize art as an educational, cultural, and social force; and to realize that art expresses the essential thought of the people of any age. To give students an opportunity for appreciative study with special reference to the creative periods and their relation to the development of man.

Topics: 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.

Purpose: To develop the ability of arrangement with reference to drawing in the various media; to improve the use of organizational form and the functioning of art principles in compositions; to provide the opportunity for creative ex-

pression in studio work; to give students with some experience in drawing an opportunity to do more advanced problems with new materials, and to prepare them in composing for painting.

Topics: Composing forms for still life, landscapes, figures, and portraits in various media such as—charcoal, colored chalk, pastel, fescol, 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.

Purpose: To furnish the student with the modern philosophy and methods of presenting art activities to children in the intermediate and upper grades and high schools; to give the student an opportunity to participate in creative activities suitable for these grades.

Topics: 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 home-made materials and tools; actual work with creative art activities as outlined in Art 121.

Art 263. History of Architecture and Sculpture. Three hours.

Purpose: To help students develop a broader and deeper appreciation and also to make a more vital interrelation between the fine arts; to develop a high standard of taste through a study of these forms of art; to acquaint students with the methods and processes of the masters; to provide for worthwhile and refining recreation and self-expression.

Topics: A brief historical survey of architecture and sculpture of all the ages and a study of the 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.

Purpose: To acquaint students with the painting of the masters; to develop appreciation of these works through association; to introduce information concerning methods, processes, media, and influences of the painters.

Topics: The paintings are studied in their respective periods and schools and comparative studies of paintings of different periods are made. The effects of historical events, customs, and religious beliefs on the subject and methods of presentation are examined as well as the art structure.

Art 291. Color and Design. Two hours.

Purpose: To make a study of the science of color and principles of color harmony with their application to design and painting.

Topics: 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.

Purpose: To develop an appreciation of good dress design, not only on the part of students who are particularly interested in the clothing field but also on the part of the individual who wishes to design clothes for her own personal pleasure and satisfaction; to stimulate the conception and invention of original ideas in dress for all types of women and children; and to give a background of costume history and art structure that will function in creative dress design.

Topics: 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. (Formerly Advanced Composition and Drawing.)

Prerequisites: Art 101 and 202.

Purpose: To provide opportunity for the application of compositional elements learned in Art 202 in more advanced expression; to stimulate original thinking and individual expression in pictorial compositions; and to provide the necessary background for painting arrangement.

Topics: Planning still life compositions—realistic, ab-

stract, 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.

Purpose: To gain a knowledge of the human figure in its relation to artistic expression; to learn the use of the figure in design and illustration.

Topics: 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 221.

Purpose: To give the opportunity for creative expression through this medium; to provide the student with a good foundation in painting; to provide acquaintance with the various styles of painting so that the individual may develop a style of his own.

Topics: 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.

Purpose: To develop the ability to work creatively in water color; to promote an appreciation of the water color painting of the past and present; to stimulate the ability to see and enjoy art patterns in nature and in the individual's surroundings; to represent one's aesthetic emotions in this media.

Topics: 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.

Purpose: To develop appreciation and interest in the different crafts of the world; to study the harmonious relation-

ship of the construction and design of artistic products; to teach the correct use of the tools and materials; to stimulate good craftsmanship and the creation of appropriate design; to work out craft problems of the teacher.

Topics: 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; campcraft. 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.

Purpose: This course has the twofold objective of developing both skill and appreciation. The primary purpose is to develop the ability to design and execute representative types of commercial art. The secondary purpose is to develop an appreciation, based on personal experience, that will enable the individual to judge artistic merit in commercial art products and to enable him to select advertising intelligently for his own business uses.

Topics: 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.

Purpose: To give the student the fundamental background and applications of the principles of beauty to the interior of public buildings, business houses, and private dwellings, with stress placed on the creative element and the useful application of materials for individual satisfaction.

Topics: The 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.

Purpose: To develop an appreciation of the art of the theater; to provide training and experience in stagecraft that can be utilized by teachers in coaching school dramatics; to give an understanding of marionettes and puppets and their use in educational projects, occupational therapy, and recreation.

Topics: 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.

Purpose: This course is a continuation of Art 311.

Art 413. Portrait Painting. Two Hours.

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

Purpose: To develop the ability to do creative painting in oil; to furnish an understanding of some of the possibilities and limitations in the use of the materials of portrait painting; to increase the student's appreciation of painting of the past and present through personal experience.

Topics: At least three portraits will be painted during the semester; training in the 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.

Purpose: This course is a continuation of Art 314.

Art 442. Crafts II. Three hours.

Prerequisites: Art 161 or 291, and 341.

Purpose: This course is a continuation of Art 341.

Art 455. Advanced Art Problems. Three hours.

Prerequisite: Permission of the instructor.

Purpose: To give advanced students an opportunity for additional training in some special art field not provided by regular courses; to provide an opportunity for research in art education, art history, painting, or techniques.

Topics: To be determined by the problems selected. Etching may be included as a problem.

Art 465. Modern and Contemporary Art. Three hours.
(Formerly History of Modern Art.)

Purpose: To acquaint the student with the development, progress and meaning of contemporary art; and to help him view the art of today with intelligence and an open mind.

Topics: 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 482. Commercial Art II. Two hours.

Prerequisites: Art 101 and 381.

Purpose: This course is a continuation of Art 381.

Topics: The more advanced processes and techniques of the commercial artist such as—laying of gold leaf, screen printing, use of the airbrush, etc.; the use of principles of design and the function of pertinent principles of advertising psychology in commercial art will be investigated more thoroughly.

Art 493. Costume Design II. Two hours.

Prerequisites: Art 101 or 304, and 292.

Purpose: This course is designed for students especially interested in clothing and also for the person who is interested in doing advanced work in fashion drawing.

Topics: Color and personal dress problems; color theory; textures and patterned materials as they effect 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. Jennings
Mr. Anderson

Miss Cox
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 all students by providing courses which give useful business skills, information and understanding of business principles needed by all who assume the economic responsibilities of citizenship and family life.

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 COMMERCIAL TEACHERS

- 8 hrs. in Accounting 381, 382
 14 hrs. in Secretarial Practice chosen from: 211, 212, 213, 231, 232, 235, 238, 332, 331, 333
 22 hrs. in General Business chosen from: 101, 161, 221, 236, 360, 361, 362, 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 commercial 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 commercial subjects. Since most commercial teachers in Kentucky teach in small high schools where they are expected to teach all the commercial 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

3 hrs. elective from: 221 or 235 and 237

—
18 hrs. Minimum

2. For a Major in General Business with teacher's certificate

14 hrs. in General Business: 101, 161, 221, 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, 161, 221, 236, 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: 380, 381, 382, 480, 481,
482 or 483

6 hrs. in General Business from: 101, 161, 236, 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, 480, 481, or
483

2 hrs. in General Business: 101 or 236

2 hrs. in Materials and Methods: 475

—
16 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 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 361, 381, 382 and 46114 hrs.

Electives in commerce10 hrs.

—
Minimum24 hrs.

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

Commerce 381, 382 and 46111 hrs.

Electives in commerce 5 hrs.

—
Minimum16 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 avail-

able for special training in this field of interest. It is planned to prepare the student for more than a mere clerical job upon the completion of his college training. After a short period of apprenticeship or training on the job the graduate should be prepared either for a junior executive position; to act in the capacity of a business specialist; or to assume the responsibilities of business ownership and management.

<i>College and Departmental Requirements:</i>	Sem. Hrs.
English	15
Composition (6), Literature (6), Public Speaking (3)	
Science	12
Biology, Chemistry, Geology or Physics	
One Foreign Language	12
French, German, or Spanish	
Mathematics	10
College Algebra (4), Mathematics of Finance (3), and Statistics (3)	
Social Science	12
General Economics, Government of the U. S., and Fundamentals of Geography	
Health and Physical Education	4
Electives	13

MAJOR REQUIREMENTS:

	Sem. Hrs.
Ec. 149 Economic History of the U. S.	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. 361 Introduction to Business Administration	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 Advanced Accounting	4
	—
	50
Total	128

While it is not the purpose of the college to offer a business course which compares with short courses offered in schools other than four-year colleges, a number of students are enrolled who have

as their purpose the study of certain subjects until such skill and knowledge are gained that 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

1st Semester		2nd Semester	
English Composition	3 cr.	English Composition	3 cr.
Business Arithmetic	3 cr.	Intermediate Typewriting ..	2 cr.
Beginning Typewriting	2 cr.	*Intermediate Shorthand ..	4 cr.
*Beginning Shorthand	4 cr.	Business English	3 cr.
Personal Finance	2 cr.	*Filing	2 cr.
Clerical Office Machines	2 cr.	*Secretarial Office Machines	2 cr.
Physical Education	½ cr.	Physical Education	½ cr.
	16½ cr.		16½ cr.

TWO YEAR SECRETARIAL OR GENERAL BUSINESS COURSE

FIRST YEAR

1st Semester		2nd Semester	
English Composition	3 cr.	English Composition	3 cr.
Business Arithmetic	3 cr.	Intermediate Typewriting ..	2 cr.
Beginning Typewriting	2 cr.	*Intermediate Shorthand ..	4 cr.
*Beginning Shorthand	4 cr.	Business English	3 cr.
Clerical Office Machines	2 cr.	*Filing	2 cr.
Personal Finance	2 cr.	*Secretarial Office Machines	2 cr.
Physical Education	½ cr.	Physical Education	½ cr.
	16½ cr.		16½ cr.

SECOND YEAR

1st Semester		2nd Semester	
*Secretarial Procedure	3 cr.	*Secretarial Procedure	3 cr.
Principles of Economics	3 cr.	Principles of Economics	3 cr.
Principles of Accounting	4 cr.	Principles of Accounting	4 cr.
Advanced Typewriting	2 cr.	*Applied Shorthand	2 cr.
Office Machines	1 cr.	Secretarial Accounting	3 cr.
Personal Hygiene	2 cr.	Physical Education	½ cr.
Physical Education	½ cr.		
	15½ cr.		15½ cr.

*Students interested in preparing for general clerical, accounting or sales work may substitute courses in Advanced Accounting, Cost Accounting, Income Tax Accounting, Business Law, Salesmanship, Retail Merchandising, Office Management, Money and Banking, Business Organization or Introduction to Business for the Shorthand, Secretarial Procedure and Practice, and Advanced Typewriting Classes.

SUGGESTED PROGRAMS

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

Provisional High School Certificate with an Area of Concentration in Commerce

FRESHMAN YEAR

First Semester		Second Semester	
Eng. 101—English Composition	3	Eng. 102—English Composition	3
P. E. 100—Orientation in Phys. Ed.	$\frac{1}{2}$	P. E. 100—Orientation in Phys. Ed.	$\frac{1}{2}$
Geog. 100—Fundamentals of Geography	3	Educ. 154—Educational Psychology	3
Biol. 101—Int. to Biological Science	3	Biol. 102—Int. to Biological Science	3
Com. 101—Business Arithmetic	3	Com. 211—Beginning Typewriting	2
Com. 161—Personal Finance	2	Geog. 211—Economic Geography	3
P. E. 104—Personal Hygiene	2	Elective	2
	<hr/>		<hr/>
	16 $\frac{1}{2}$		16 $\frac{1}{2}$

SOPHOMORE YEAR

First Semester		Second Semester	
Eng. ————Sophomore literature	2	Eng. ————Sophomore literature	2
P. E. ————Activity course	$\frac{1}{2}$	P. E. ————Activity course	$\frac{1}{2}$
Econ. 201—General Economics	3	Econ. 202—General Economics	3
Ph. Sc. 101—Int. to the Physical Sciences	3	Ph. Sc. 102—Int. to the Physical Sciences	3
Com. 212—Intermediate Typewriting	2	Com. 232—Intermediate Shorthand	4
Com. 232—Beginning Shorthand	4	Com. 221—Business English	3
P. E. 285—Community Recreation	2		
	<hr/>		<hr/>
	16 $\frac{1}{2}$		15 $\frac{1}{2}$

JUNIOR YEAR

First Semester		Second Semester	
Eng. ————Sophomore literature	2	Educ. 472—Fundamentals of Sec. Ed.	4
Educ. 354—Psychology of Adolescence	3	Com. 332—Principles of Accounting	4
Com. 331—Principles of Accounting	4	Com. 475—M&M in Bookkeeping and Gen. Bus.	2
Com. 375—M&M in Secretarial Subjects	2	Com. 362—Consumer Education	3
Com. 331—Secretarial Proc. and Practice	3	Elective	3
Elective	2		
	<hr/>		<hr/>
	16		16

SENIOR YEAR

First Semester		Second Semester	
Educ. 375—Student Teaching	4	Educ. 475—Student Teaching	4
Com. 461—Business Law	3	Com. 462—Business Law	3
Com. 450—Salesmanship	3	Com. 449—Seminar	1
Electives	6	Electives	7
	<hr/>		<hr/>
	16		15

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—English Composition	3	Eng. 102—English Composition	3
P. E. 100—Orientation in Phys. Ed.	$\frac{1}{2}$	P. E. 100—Orientation in Phys. Ed.	$\frac{1}{2}$
Biol. 101—Int. to Biological Science	3	Biol. 102—Int. to Biological Science	3
Foreign Language	3	Foreign Language	3
Math. 151—College Algebra	2	Math. 152—College Algebra	2
Geog. 100—Fundamentals of Geography	3	Econ. 149—Economic History of the U. S.	3
P. E. 104—Personal Hygiene	2	Com. 211—Beginning Typewriting	2
	<hr/>		<hr/>
	16 $\frac{1}{2}$		16 $\frac{1}{2}$

SOPHOMORE YEAR

First Semester		Second Semester	
Eng. —Sophomore literature	2	Eng. —Sophomore literature	2
P. E. —Activity course	$\frac{1}{2}$	P. E. —Activity course	$\frac{1}{2}$
Ph. Sc. 101—Int. to the Physical Sciences	3	Ph. Sc. 102—Int. to the Physical Sciences	3
Econ. 201—General Economics	3	Econ. 202—General Economics	3
P. E. 241—Government of the U. S.	3	Math. 252—Mathematics of Finance	3
Foreign Language	3	Foreign Language	3
Elective	2	Elective	2
	<hr/>		<hr/>
	16 $\frac{1}{2}$		16 $\frac{1}{2}$

JUNIOR YEAR

First Semester		Second Semester	
Eng. —Sophomore literature	2	Geog. 211—Economic Geography	3
Eng. 281—Public Speaking	3	Com. 221—Business English	3
Com. 381—Principles of Accounting	4	Com. 382—Principles of Accounting	4
Econ. 304—Marketing	3	Com. 360—Business Organization	3
Math. 353—Statistics	3	Elective	3
	<hr/>		<hr/>
	15		16

SENIOR YEAR

First Semester		Second Semester	
Com. 361—Int. to Business Administration	3	Econ. 443—Investments	3
Econ. 442—Money and Banking	3	Com. 450—Salesmanship	3
Com. 461—Business Law	3	Com. 462—Business Law	3
Com. 481—Advanced Accounting	4	Com. 464—Office Management	3
Elective	3	Elective	3
	<hr/>		<hr/>
	16		15

Provisional High School Certificate with the Second Major in Commerce

(This program will not provide the student with a certificate valid 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—English Composition	3	Eng. 102—English Composition	3
P. E. 100—Orientation in Phys. Ed.	$\frac{1}{2}$	P. E. 100—Orientation in Phys. Ed.	$\frac{1}{2}$
*Biol. 101—Int. to Biological Science	3	*Biol. 102—Int. to Biological Science	3
Geog. 100—Fundamentals of Geography	3	Geog. 211—Economic Geography	3
P. E. 104—Personal Hygiene	2	Educ. 154—Educational Psychology	3
First Major	3	First Major	3
†Elective	1		
	<hr/>		<hr/>
	15 $\frac{1}{2}$		15 $\frac{1}{2}$

SOPHOMORE YEAR

First Semester		Second Semester	
Eng. —Sophomore literature	2	Eng. —Sophomore literature	2
Econ. 201—General Economics	3	Econ. 202—General Economics	3
*Ph. Sc. 101—Int. to the Physical Sciences	3	*Ph. Sc. 102—Int. to the Physical Sciences	3
P. E. —Activity course	$\frac{1}{2}$	P. E. —Activity course	$\frac{1}{2}$
P. E. 285—Community Recreation	2	First Major	3
†Commerce Major	3	Commerce Major	5
First Major	3		
	<hr/>		<hr/>
	16 $\frac{1}{2}$		16 $\frac{1}{2}$

		JUNIOR YEAR			
		First Semester		Second Semester	
Eng. —	Sophomore literature	2		Educ. 472—Fund. of Secondary Education	4
Educ. 354—	Psychology of Adolescence	3		First Major	3
First Major		5		Commerce Major	6
Commerce Major		6		Elective	3
		16			16
		SENIOR YEAR			
		First Semester		Second Semester	
Educ. 375—	Student Teaching	4		Educ. 475—Student Teaching	4
First Major		4		First Major	4
Commerce Major		4		Commerce Major	2
Elective		4		Elective	6
		16			16

* If the First Major is selected in science the student should not enroll for these courses.

† The Commerce Major must be selected from either Secretarial Science, General Business, or Accounting.

‡ At least six hours of the electives in this program must be in one field in order to satisfy Core Curriculum requirements. Six hours of home economics are suggested for young women. Men should select six hours of mathematics, industrial arts, agriculture, foreign language, or fine arts.

§ If the student uses any of the sciences or social sciences as a first major, he will need two fields of six and seven hours respectively selected from fine arts, foreign language, mathematics, agriculture, home economics, or industrial arts.

DESCRIPTION OF COURSES

Commerce 101. Business Arithmetic. Three hours.

Purpose: To give commerce students a knowledge of the fundamental arithmetic ideas connected with business.

Topics: 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; and taxes.

Commerce 161. Personal Finance. Two hours.

Purpose: To give a background for the intelligent management of personal income; to teach the use of the budget; accounting for personal revenue and expense; and the use of banking services.

Topics: Money; inflation; banking services; controlling expenses; taxation; charge accounts and installment buying; borrowing money; establishing reserves; life investments; trust funds; and business cycles.

Commerce 211. Beginning Typewriting. Three hours.

Purpose: To teach the proper operating techniques in touch typewriting and the care of the machine; and to develop speed and accuracy in the use of the machine.

Topics: The keyboard; operating parts of the machine; centering; tabulations; arrangement of statistical material; typewriting for personal use; and simple business letters.

Time: Two demonstration-discussion periods and one laboratory period per week.

Commerce 212. Intermediate Typewriting. Two hours.

Purpose: To develop speed and accuracy and to perfect operating techniques on the machine.

Topics: Special forms of business letters; arrangement of reports; legal forms, manuscripts; business forms, tabulations; analysis of errors; and the development of speed and accuracy.

Commerce 213. Advanced Typewriting. Two hours.

Purpose: To develop vocational skill in typing of business papers, letters and reports.

Topics: Review of business letters; arrangements 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.

Purpose: To emphasize the importance of correct, courteous and persuasive English in all business dealings, and to help the student develop skill in effective business correspondence.

Topics: 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.

Purpose: To introduce the use of shorthand and to give the background needed for the later development of speed and accuracy in the taking of dictation; to develop a fluid and legible style of writing and ease in reading shorthand notes.

Topics: The Gregg System of shorthand as outlined in the functional manuals; alphabet, brief forms, phrases and

abbreviations; beginning dictation and pre-transcription training.

Time: Five class periods per week.

Commerce 232. Intermediate Shorthand. Four hours.

Purpose: To further develop speed in taking dictation and to develop transcription skill needed to transcribe shorthand notes.

Topics: Review of 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.

Time: Five class periods per week.

Commerce 235. Secretarial Office Machines. Two hours.

Prerequisites: Commerce 211 and 212 or equivalent.

Purpose: To give an understanding of the use of office machines and to develop vocational skill in their operation.

Topics: Typewriters: large carriage, manual and electric machines; dictaphone machines: dictating, transcribing and shaving units; duplicating machines: Ditto or Hecktograph, gelatin and direct process machines; Mimeograph and Mimescope and Elliott addressing machines.

Commerce 236. Clerical Office Machines. Two hours.

Purpose: To give an understanding of the use and to develop vocational skill in the operation of office machines.

Topics: The 10-key adding listing machines; the full keyboard adding listing machine; the key-driven calculator; the crank-driven calculator; and the bookkeeping machine.

Commerce 237A, 237B, 237C, 237D, 237E, 237F, 237G. Office Machines. One hour.

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

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

Prerequisite to Commerce 237E: Commerce 381 or equivalent.

Prerequisites to Commerce 237F and 237G: Commerce 212 and 213 or equivalent.

Purpose: To provide the requisite practice necessary for employment as a machine operator. Provision is made in this course for the development of a high degree of skill on one particular machine as the student secures at least 50 clock hours of instruction and practice on the machine selected.

- Topics:** 237A The Dictaphone
237B Duplicating Machines
237C Crank Driven Calculators
237D Key Driven Calculators
237E Bookkeeping Machine
237F Vari-Typer
237G Electric Typewriter

Commerce 238. Filing. Two hours.

Purpose: To give an understanding of the importance of filing in the business office; to teach basic filing rules and to provide sufficient practice in filing to meet employment standards for file clerks.

Topics: 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. Secretarial Procedure and Practice. Three hours.

Prerequisites: Commerce 211, 212, 231 and 232.

Purpose: To integrate typing and shorthand skills and increase proficiency in each; to develop a knowledge of the duties and qualities required of the secretary through the use of job projects.

Topics: Requirements for employment; duties of the secretary; securing employment; organization of office work; office projects in the handling of mail, use of phone and telegraph, reception of office callers, selection of office supplies; use of office reference books, financial records which the secretary must use; preparation of business forms; daily dictation and further transcription work needed to increase both shorthand and transcription speed beyond employment standards.

Commerce 332. Secretarial Procedure and Practice. Three hours.

This course is a continuation of Commerce 331.

Commerce 333. Applied Shorthand. Two hours.

Prerequisites: Commerce 211, 212, 231 and 232.

Purpose: To give the advanced secretarial student an opportunity to test his skill in actual office work.

Topics: Special secretarial assignments; the student will do his laboratory work in the various offices on the campus. After conferences with the office heads, the instructor will assign remedial work for class so that upon the completion of the course the student is qualified for employment.

Time: Two class periods per week or six hours office work on secretarial projects when on assignment.

Commerce 360. Business Organization. Three hours.

Purpose: To acquaint the student with the different types of business organization—their growth, importance, advantages and disadvantages and their effect on society.

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

Commerce 361. Introduction to Business Administration. Three hours.

Purposes: To introduce the student to the field of business and to acquaint him with the problems of organization, production, marketing, finance and management.

Topics: The nature of business; how business is owned; how business is organized for work; organization for finance; physical facilities, personnel, office management, office service, administration and control, accounting, sales and advertising, handling sales orders, credit management, purchasing, store-keeping, traffic management, production, and organization of the individual.

Commerce 362. Consumer Education. Three hours.

Prerequisite: Commerce 161 or Economics 201.

Purpose: To give the student a general understanding of

the economic problems of the consumer so that he will be a more intelligent consumer.

Topics: 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 375. Materials and Methods in Secretarial Subjects. Two hours.

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

Purpose: To acquaint the student with the techniques and devices based on research and approved practice for the teaching of shorthand, typewriting and secretarial practice.

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

Commerce 380. Secretarial Accounting. Three hours.

Prerequisite: Commerce 381.

Purpose: To apply the principles of accounting to the small business enterprises, the non-business enterprises, and the professions through the use of practice sets which illustrate those cases where the secretary ordinarily keeps the records.

Topics: Business forms; household accounts; accounts of small businesses, professions, and non-business associations, such as churches, schools, and clubs; and the preparation of income tax reports.

Commerce 381. Principles of Accounting. Four hours.

Prerequisite: Commerce 101.

Purpose: To develop an understanding of the fundamental principles of accounting as applied to the sole proprietorship and the partnership.

Topics: 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.

Time: Three lecture-discussion periods per week and two hours of laboratory work.

Commerce 382. Principles of Accounting. Four hours.

Purpose: To study the principles of accounting as applied to the corporate forms of business organization.

Topics: 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.

Time: Three lecture-discussion periods per week and two hours laboratory work.

Commerce 449. Seminar in Commerce. One hour.

Required course for commerce majors in their senior year who expect to receive a teacher's certificate. This course is designed to give the students an opportunity to become familiar with the literature in the field of business education; 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.

Purpose: To develop an understanding of the fundamental principles of selling and an appreciation of the techniques and art of selling, together with the ability to evaluate these both as a customer and salesman.

Topics: 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.

Purpose: To give an understanding of the problems of the retail merchant together with the principles of management which are common to all types of retail stores.

Topics: Selecting a business location; internal layout;

departmentalization; merchandise control; store policies; retail selling problems; training and management of personnel.

Commerce 461. Business Law. Three hours.

Purpose: To acquaint the student with the legal principles that govern the conduct of business and to train him in applying them to business situations.

Topics: 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.

Purpose: To acquaint the student with modern methods used in office organization and management.

Topics: 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.

Purpose: To acquaint the student with the different methods of presenting and developing these subjects in the high school.

Topics: 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.

Purpose: To acquaint the prospective business teacher with the nature of distributive education and the need for it.

Topics: The George-Dean Act; objectives; organization, supervision, and administration of distributive education programs; distributive occupations; courses of study and curricula in distributive education; 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.

Purpose: To show the value of and procedures used in accounting for costs and the importance of detailed financial statements.

Topics: 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. Advanced Accounting. Four hours.

Prerequisites: Commerce 381 and 382.

Purpose: To give practice in solving accounting problems of a more advanced nature than those encountered in Commerce 383.

Topics: Installment sales accounting; consignments; accounting for branches and agencies; consolidated statements; estate accounting; partnership liquidations; corporation accounting problems.

Commerce 482. Advanced Accounting. Four hours.

This course is a continuation of Commerce 481.

Commerce 483. Income Tax Accounting. Four hours.

Purpose: To give the student an understanding of the principles of federal and state income tax and social security laws and methods of preparing and filing returns.

Topics: Tax legislation—federal and state; returns for individuals, estates, partnerships and corporations; cash and accrual methods of reporting; exempt income; allowable deductions; capital gains and losses; estate and gift taxes; social security taxes; accounting and administrative procedure on corporation returns.

ECONOMICS AND SOCIOLOGY

Mr. Carey

Mr. Finsel

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:

<i>For a Major in Economics and Sociology:</i>	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
 <i>For a Minor in Economics and Sociology:</i>	
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 the 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, 247, 331, or 383	3
The remaining 6 hours are elective and may be selected from any of the social sciences	6
Total for an Area Major	48

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—English Composition 3	Eng. 102—English Composition 3
P. E. 100—Orientation in Phys. Ed. ½	P. E. 100—Orientation in Phys. Ed. ½
Soc. 170—Rural Sociology 3	Econ. 149—Economic History of the U. S. 3
*Biol. 101—Int. to Biological Science 3	*Biol. 102—Int. to Biological Science 3
P. E. 104—Personal Hygiene 2	Educ. 154—Educational Psychology 3
Second Major 3	Second Major 3
Elective 1	
15½	15½

SOPHOMORE YEAR

First Semester		Second Semester	
Eng.—Sophomore literature	2	Eng.—Sophomore literature	2
P. E.—Activity course	1/2	P. E.—Activity course	1/2
Soc. 201—Introductory Sociology	3	Soc. 203—Contemporary Social Problems	3
Econ. 201—General Economics	3	Econ. 202—General Economics	3
*Ph. Sc. 101—Int. to the Physical Sciences	3	*Ph. Sc. 102—Int. to the Physical Sciences	3
Second Major	3	Second Major	3
P. E. 285—Community Recreation	2	Elective	2
	<hr/>		<hr/>
	16 1/2		16 1/2

JUNIOR YEAR

First Semester		Second Semester	
Eng.—Sophomore literature	2	Educ. 472—Fund. of Secondary Education	4
Educ. 354—Psy of Adolescence	3	Econ. 302—Labor Problems or 304—Marketing	3
Econ. 333—Economic History of Europe	3	Soc. 384—World Religious or 405—Adv. Anthropology	
Soc. 305—Introductory Anthropology		3	First Major
Second Major	3	Core Curriculum	3
Core Curriculum	3	Elective	3
Elective	2		
	<hr/>		<hr/>
	16		16

SENIOR YEAR

First Semester		Second Semester	
Educ. 375—Student Teaching	4	Educ. 475—Student Teaching	4
Econ. 441—Public Finance or 443—Investments		Econ. 442—Money and Banking or 483—Devel. of Econ. Thought	
Soc. 401—Criminology or 403—The Family	3	Soc. 410—Config. of Basic Cultures or 450—Sociological Theory	3
Second Major	3	Second Major	3
Core Curriculum	3	Core Curriculum	3
Elective	3	Elective	3
	<hr/>		<hr/>
	16		16

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

DESCRIPTION OF COURSES

ECONOMICS

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

Purpose: To give the student an appreciation of economic influences upon the development of our political, industrial, and social institutions.

Topics: The early colonial commerce; the development of transportation facilities—shipbuilding, turnpikes, canals, river transportation, railroads; credit and international commerce;

the effect of warfare upon economics; modern economic theories.

Economics 200. General Economics. Three hours.

Prerequisite: Sophomore standing.

The fundamental facts and principles of the economic world. Given as a condensation of Economics 201 and 202. Complete in one semester. This is the course that should be taken by those students who desire only three hours of credit in General Economics.

Economics 201. General Economics. Three hours.

Prerequisite: Sophomore standing.

Purpose: To teach the principal theories of our economic life, and to familiarize the student with the terminology of the subject in order that he may more fully appreciate the current literature in this field.

Topics: Economic organization; the laws of price, money, banking, and exchange; problems of business organization; the distribution of wealth and income; the economics of government; the problems of labor.

Economics 202. General Economics. Three hours.

This course is a continuation of Economics 201.

Economics 280. Agricultural Economics. Three hours.

(Formerly Ec. 180)

Prerequisite: Economics 200.

Purpose: To give students a practical knowledge of agricultural economics and its relation to national economy. To present the economic principles involved in the problems of the farmer. To review the national policies and programs pertaining to agriculture and their relation to the farmer.

Topics: 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 200 or 201.

Purpose: To give the underlying causes of industrial

strife; to develop in the student an open mind toward both capital and labor; and to present the rights of the public in this industrial problem.

Topics: 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.

Purpose: To familiarize the student with the laws of marketing and the organizations by means of which people sell and buy. He must know also something of the importance of banking policies and business policies in general as they bear upon the markets of the world.

Topics: Raw materials and products; organized exchange; analysis of market; market price; manufactured products; warehouses; cooperative societies; distribution organizations.

Economics 339. Economic History of Europe. Three hours.

Prerequisite: Economics 201.

Purpose: To indicate the origins, and to explain the effects of the more important economic changes and achievements in Europe and their relations to economic conditions in the United States.

Topics: 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.

Purpose: To give an understanding of the sources, the collection, and the expenditure of the finances of the federal, the state, and the local units of government.

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

Economics 442. Money and Banking. Three hours.

Prerequisite: Economics 201.

Purpose: To give a history of the monetary system of the

United States, and to compare our banking system with those of the leading European nations, thereby giving an intelligent understanding of the banking system of the United States.

Topics: 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.

Purpose: To acquaint the student with the general fundamentals in the analysis of securities, bonds, mortgages, etc.; to show him the differences between corporation securities, real estate securities, and government or civil loans; and to enable him to distinguish between investment securities with little risk and speculative securities.

Topics: 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 junior standing.

Purpose: To analyze and present existing and future economic problems with emphasis on the relationships to public policy.

Topics: Selected topics of current interest such as labor, taxation, land and land policies, rent interest, and the flow of capital funds.

Economics 483. Development of Economic Thought. Three hours.

Purpose: To trace the rise of modern capitalism and the development of thought concerning the system of free enterprise.

Topics: 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.

Purpose: To study the social structure and organization, interaction processes, social institutions, problems, and force of cultural patterns on the individual, in rural life, with special stress on Kentucky patterns.

Topics: 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.

Purpose: To give a knowledge of how individuals and social groups interact, and how and why different social groups manifest varying types of behavior patterns developed through processes of habit formation and standardization. To classify social groups by standard criteria and to show methods of social control and the processes by which competing, conflicting, and alien groups become integrated into the greater society.

Topics: 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.

Purpose: To present to the student selected outstanding problems of our contemporary social order and to stress the inter-relationship and the inter-casual system by which social problems ordinarily depend one upon the other.

Topics: 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.

Purpose: To examine theories of origins, the probable

trend of prehistoric and historic development, and the functions of man's major social institutions. To analyze the structure of these institutions and the social and cultural processes by which they developed. Stress is placed on the social institutions of the modern western world.

Topics: 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.

Purpose: By the socio-cultural approach to investigate the forces operating in reproductive behavior, mortality, population composition, population distribution, and internal and international migration in the United States.

Topics: 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. Introductory Anthropology. Three hours.

Purpose: To acquire an elementary knowledge of the world's simplest and most primitive peoples and tribes in order to note fundamental social and cultural processes and structures in them and to link them with those of the higher civilizations.

Topics: 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 Organization. Two hours.

Purpose: To present to the student a wide range of possible forms of social organization, from social arrangements

of aboriginal peoples to those of modern European civilizations.

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

Sociology 384. World Religions. Three hours.

Purpose: To bring before the student the beliefs, ritual practices, and mythology of the religions of peoples at many different levels of culture of the world and to stress religion as a force of social control in group life.

Topics: 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.

Purpose: To analyze by the socio-cultural approach the nature, causes, and effects on the greater society, of criminal behavior and to examine the history and the efficacy of punishment for crime.

Topics: 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.

Purpose: To present the significance of immigration into the United States, to study individual minority groups and examine sociological problems arising from them, and to attempt to draw solutions for these problems.

Topics: 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.

Purpose: To study theories of the origin of the family,

its development, and its significance in many types of society, with emphasis placed on the family of the modern western world.

Topics: Theories of the rise of the family group; patterns of families: the Chinese family, Russian family, Negro family, the primitive family, early American family, and others. Mate selection and marriage; husband and wife relationship; parents and children; changing modern family; family disorganization; family reorganization.

Sociology 405. Advanced Anthropology. Three hours.

Purpose: To present some of the more important aspects of the physical, linguistic, and cultural development of man.

Topics: 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. Configurations of Basic Cultures. Three hours.

Purpose: To examine the great cultures of the ancient world which acted as cradles of modern western civilizations and to analyze the contents of these cultures in order to realize the cultural heritage transmitted through them.

Topics: 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 the cultures with less intensity.

Sociology 450. Sociological Theory. Three hours.

Purpose: To acquaint the student with the story and the theories of social philosophy from the earlier Greek thinkers, through Medieval and Renaissance times, to modern social philosophers and their views on man's human relations, social institutions and culture.

Topics: 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.

Purpose: To promote group discussions of sociological problems, method and theory.

Topics: Current sociological periodicals and reports as bases for group study and discussion.

Sociology 480. Independent Research. One to three 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

Mr. Black	Mr. McShea	Mrs. Saunders
Mrs. Day	Miss Minish	Miss Smelley
Mr. Denney	Miss Moore	Miss Thompson
Miss Evans	Miss Neal	Mr. Walter
Mrs. Graves	Miss Nollau	Mrs. Waltz
Mr. Jackson	Mrs. Rice	Mr. Wicker
Mr. Lappin	Miss Roome	Mr. George Young

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 the various certificates.)

For the Provisional Elementary Certificate:	Sem. Hrs.
Education 120, 154, 221, 226, and 325	17
For the Standard Elementary Certificate:	
Education 120, 154, 221, 226, 325, 350, 420, and 425	28

For the Provisional High School Certificate:	
Education 154, 354, 472, 375, and 475	18
For the Provisional Certificate in Administration and Supervision:	
Education 451, 452, and 493	9
Secondary Education	6
Elementary Education	6
For the Attendance Officer's Certificate:	
Education 426	3

CLASSIFICATION OF COURSES

For the guidance of students who are working to satisfy certificate requirements, the courses offered are classified under five major divisions, viz., general professional education, elementary education, secondary education, administration and supervision, and graduate education.

General Professional Education

	Sem. Hrs.
153 General Psychology	3
154 Educational Psychology	3
321 Tests and Measurements	3
360 History of Education	3
381 Measurement Principles and Techniques	1-6
382 Audio-Visual Aids in Instruction	2
383 Educational Statistics	2
484 Philosophy of Education	3
486 Adult Education	2
490 School Buildings	2

Elementary Education

	Sem. Hrs.
120 Fundamentals of Elementary Education	4
221 Teaching of Arithmetic	3
226 Teaching of Reading	3
320 Improvement of Instruction in the Elementary School	2
325 Supervised Student Teaching	4
350 The Psychology of Childhood	3
420 Principles and Practices in Elementary Education	4
425 Supervised Student Teaching	4
427 Diagnostic and Remedial Techniques	2-6
Workshop in Elementary Education	2-10

Secondary Education

354 The Psychology of Adolescence	3
356 Guidance and Counseling	3

374	Improvement of Instruction in the Secondary School	2
375	Supervised Student Teaching	4
389	Extra-Curricular Activities	2
472	Fundamentals of Secondary Education	4
475	Supervised Student Teaching	4
476	Reading in the Secondary School	3

Administration and Supervision

426	Pupil Accounting	3
451	Public School Administration and Supervision	3
452	Elementary School Administration and Supervision	3
493	High School Administration and Supervision	3

Graduate Education

520	Research Problems in Elementary Education	3
523	Learning in the Elementary School	2
524	Modern Elementary School Curricula	2
526	Investigations in Reading	2
528	Legal Basis of the Public Schools	3
554	Psychology of Learning	3
555	Psychology of Exceptional Children	3
556	Abnormal Psychology	3
557	Mental Measurements	3
570	Research Problems in Secondary Education	3
571	Graduate Seminar in Education	1-2
573	Modern Secondary School Curricula	2
580	Democracy and Education	2
584	School Finance	3
590	Research Methods in Education	2
598	Thesis Writing	4-5

SUGGESTED PROGRAMS

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

Provisional Elementary Certificate**FRESHMAN YEAR**

First Semester		Second Semester	
Eng. 101—English Composition	3	Eng. 102—English Composition	3
P. E. 100—Orientation in Phys. Ed.	½	P. E. 100—Orientation in Phys. Ed.	½
Hist. 131—History of Civilization	3	Hist. 132—History of Civilization	3
Educ. 120—Fund. of Elementary Education	4	Educ. 154—Educational Psychology	3

Art 121—Public School Art	}	3	Mus. 100—Rudiments of Music	}	3
or Mus. 100—Rudiments of Music			or Art 121—Public School Art		
Biol. 101—Int. to Biological Science	}	3	Biol. 102—Int. to Biological Science	}	3
or Ph. Sc. 101—Int. to the Physical Sciences			or Ph. Sc. 102—Int. to the Physical Sciences		
		<hr/> 16½			<hr/> 15½

SOPHOMORE YEAR

First Semester		Second Semester	
Eng. 283—Elementary Dramatics	2	Eng. 226—Literature for Children	3
P. E. —Activity course	½	P. E. —Activity course	½
Educ. 221—Teaching of Arithmetic	3	Soc. 170—Rural Sociology	3
Educ. 226—Teaching of Reading	3	F. A. 160—Appreciation of the Fine Arts	3
Geog. 100—Fundamentals of Geography	3	H. Ec. 102—Nutrition for Elem. Teachers	2
Agri. 101—General Agriculture	3	Educ. 325—Student Teaching	4
P. E. 104—Personal Hygiene	2		
	<hr/> 16½		<hr/> 15½

Standard Elementary Certificate and Degree

(In her first two years of work the student should follow the program suggested for the Provisional Elementary Certificate except that four hours of elective credit should be substituted for Education 325.)

JUNIOR YEAR

First Semester		Second Semester	
Eng. —Literature, 300 course	3	Eng. —Literature, 300 course	3
Ph. Sc. 101—Int. to the Physical Sciences	}	Ph. Sc. —Int. to the Physical Sciences	}
or Biol. 101—Int. to Biological Science		or Biol. 102—Int. to Biological Science	
P. S. 241—Government of the U. S.	3	Econ. 200—General Economics	3
Educ. 350—Psychology of Childhood	3	Geog. 300—Regional Geog. for Elem. Teachers	3
Mus. 221—Music for the Elem. Teacher	2	Art 221—Adv. Public School Art	2
P. E. 320—Plays and Games	2	Eng. 281—Public Speaking	3
	<hr/> 16		<hr/> 17

SENIOR YEAR

First Semester		Second Semester	
Educ. 325—Student Teaching	4	Educ. 425—Student Teaching	4
Educ. 420—Prin. and Prac. in Elem. Ed.	4	Elective	11
Elective in Science	3		
Elective	5		
	<hr/> 16		<hr/> 15

DESCRIPTION OF COURSES

Education 120. Fundamentals of Elementary Education. Four hours.

Purpose: To aid the prospective teacher in the development of an understanding of the fundamental problems in organization, management, and instruction in the elementary school; and to assist her in the development of a better

understanding of recent and approved methods of teaching and supervising all activities in the elementary school, excepting reading and arithmetic.

Topics: The purpose and origin of the elementary school; problems of school organization, management, discipline, extra-curricular and community relationships; testing and record-keeping; guidance and counseling of elementary pupils; the elementary curriculum, its growth and revision, in addition to methods of teaching social studies, science, elementary art and music, health and recreation, and English and drama. Systematic observation of instruction in the foregoing phases of instruction will also be an integral part of the work done in this course.

Education 153. General Psychology. Three hours.

This course is designed primarily for the freshman and sophomore levels.

Purpose: To furnish to the student a general psychological and fundamental foundation of elementary psychology.

Topics: The content treated in this course emphasizes the following topics: psychology as a science; the various systems of psychology; heredity; behavior organisms; emotional behavior and behavior patterns and modifications; the neural system; the simpler sensory organs; intelligence and individual differences; mental growth, intelligence tests, and methods of testing; applications of the various psychological theories.

Education 154. Educational Psychology. Three hours.

Purpose: To acquaint the prospective elementary and secondary teacher with the fundamentals of pupil growth and development as they are basic to an understanding of the teaching and learning process.

Topics: Problems of growth in relation to learning; health and the physical bases of learning; emotional stresses and discipline; interests and incentives; the learning process; mental hygiene of teaching and learning.

Education 221. Teaching of Arithmetic. Three hours.

Prerequisite: Education 120 or 154.

Purpose: To develop a professional point of view with

respect to the methodology of the subject; to provide necessary drills to assure competency in the fundamental computational skills. This course is primarily a methods course but its foundations are laid upon a definite amount of desirable content.

Topics: The computational and informational side of arithmetic; essential concepts of the subject; presenting the material to the learner. Frequent observations are required in order to evaluate the best modern teaching practices.

Education 226. Teaching of Reading. Three hours.

Purpose: To aid prospective teachers in the acquisition of knowledge, skills, and understandings growing out of the best current thinking and practice pertaining to teaching children to read.

Topics: Motivation of reading; mechanics of reading; special methods; special difficulties; differences between good and poor readers; diagnosis of special difficulties; psychological investigations of reading; arousing reading interests; relationship of reading to success in other subjects.

Education 320. Improvement of Instruction in the Elementary School. Two hours.

Purpose: To assist experienced teachers in the improvement of their methods and techniques of instruction through the study of recent and approved practices in the various areas of the elementary curriculum.

Topics: The cooperative building of a school philosophy and the accompanying objectives of education; the use of free and inexpensive material and audio-visual aids; the purpose and use of duplicating devices; cooperative and self-supervision of instruction; the selection of supplementary materials and the organization of curricular materials into lists of meaningful learning experiences; staff relationship practices; social interpretation; current practices in grading and marking pupils; the school's health service; distributing pupils within the curriculum; and participation in professional organizations.

Education 321. Tests and Measurements. Three hours.

Prerequisite: Education 154 or the equivalent.

Purpose: To acquaint the teacher with one of the most useful tools of instruction and to develop an understanding of the significance of testing in the teaching-learning equation.

Topics: The measurement movement in education; grouping techniques; aptitude, personality, occupational, diagnostic, and performance tests on the various grade levels. Actual practice is provided in the use of the tests.

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 at least one-half of the minimum requirements in English for the curriculum pursued; c. completion of at least one-half of the minimum requirements in education courses, including Fundamentals of Elementary Education or its equivalent; d. completion of a minimum of 45 semester hours of required work in the two-year elementary curriculum; e. at least one semester of residence credit earned in this college; f. permission of the Committee on Teacher Training.

Purpose: To give the student teacher actual experience in teaching in order that familiarity with the best schoolroom procedures may be developed.

Procedure: Each student teacher is assigned to a two-hour block in the Training School during which time observation, participation, and supervised teaching is carried on. 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 or in the first two years of the junior high school. One week, or five separate days during this course will be spent on work in a rural school according to a co-operatively arranged schedule.

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 350. The Psychology of Childhood. Three hours.

Prerequisite: Educational Psychology or General Psychology.

Purpose: To meet the needs of both parents and teachers in understanding and guiding the pre-school and the elementary school child's mental, emotional, social, and physical growth and development.

Topics: The history of child psychology; principles of development; pre-natal development; physical growth; motor development; speech development; emotional development; social development; play activities; development of understanding; moral and religious development and forms of self-expression; appropriate tests, their use and interpretation; guidance in wholesome development based on accurate individual records.

Education 354. The Psychology of Adolescence. Three hours. (Formerly Education 454.)

Prerequisite: Education 154 or the equivalent.

Purpose: To give the secondary teacher an understanding of the special manifestations of mental and physical growth characteristic of adolescence.

Topics: Physical, emotional, religious, and other disturbances of the period; the struggle to realize one's self; formation of personality traits; vocational guidance; characteristics that should be found in an effective secondary school; problem cases.

Education 356. Guidance and Counseling. Three hours.

Prerequisite: Six hours of psychology.

Purpose: To acquaint upper division students in education with the philosophy, techniques, and present practices of guidance as applied to the problems of pupil personnel and counseling in the public schools.

Topics: The history and development of the guidance

movement in education, the present need for guidance, enlarging concepts of guidance, basic assumptions, general methods of investigations, the use of school records and reports, the use of tests in studying individuals, personality and interest inventories, the place of the specialist, methods of securing and assembling facts, vocational guidance, the homeroom teacher as a guidance worker, the dean of boys and the dean of girls as guidance workers, and the present status and evaluation of guidance.

Education 360. History of Education. Three hours.

Prerequisite: Eight hours in education and instructor's permission.

Purpose: To present the background of our American educational ideals and institutions, thereby allowing the student an opportunity to see present-day educational problems in terms of their historical origins. Also, special emphasis will be placed upon the history of education in the United States and Kentucky.

Topics: Education in ancient, medieval, and modern periods; colonial American backgrounds; early practices; the frontier and democracy in education; early campaigns for the improvement of instruction and teacher-training; great American educators of each period.

Education 374. Improvement of Instruction in the Secondary School. Two hours.

Purpose: To assist experienced teachers in the improvement of their methods and techniques of instruction through the study of recent and approved practices in the various areas of the secondary curriculum.

Topics: The cooperative building of a school philosophy and the accompanying objectives of education; the use of free and inexpensive material and audio-visual aids; the purpose and use of duplicating devices; cooperative and self-supervision of instruction; the selection of supplementary materials and the organization of curricular materials into lists of meaningful learning experiences; staff relationship practices; social interpretation; current practices in grading and marking pupils; the school's health service; distributing pupils within

the curriculum; and participation in professional organizations.

Education 375. Supervised Student Teaching. Four hours.

Prerequisites: a. The attainment of an average standing of one or "C" on all work completed at the time the student teaching begins; b. an average of better than "C," meaning 1.5, on all work completed in the major field in which teaching is to be done; c. completion of two-thirds of the minimum requirements in the core curriculum and in the subject fields in which the student teaching is done; d. completion of two-thirds of the required courses in education—Fundamentals of Secondary Education; e. completion of a total of 90 hours of work; f. at least one semester of residence credit earned in this college; g. permission of the Committee on Teacher Training.

Purpose: To give the student teacher actual experience in teaching at the high school level, and to acquaint him with the most approved techniques and procedures in secondary education in general and in the field in which he is to work in particular.

Procedure: Each student teacher is assigned to a two-hour block in the Training School, during which time observation, participation, and supervised teaching is carried on. The student teaches a minimum of 45 clock hours. 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 certain school activities and faculty meetings are also required.

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

Education 381. Measurement Principles and Techniques. One to six hours.

Prerequisites: Three semester hours of psychology and the approval of the instructor.

Purpose: To acquaint students with the use and interpretation of tests and measurement techniques through actual experience in the College Testing Bureau.

Topics: 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.

Education 382. Audio-Visual Aids in Instruction. Two hours.

Purpose: The course gives the student an opportunity to examine, use, and evaluate many audio-visual materials.

Topics: Audio-visual instruction in specific subject matter areas, with selection of appropriate materials and mediums of presentation; evaluation of such aids as films, film strips, slides, charts, maps, through use and pre-views; operation of projection and sound equipment; examination of sources of audio-visual aids.

Education 383. Educational Statistics. Two hours.

Purpose: The purpose of this course is: (1) to train students to approach educational problems objectively, quantitatively, and scientifically; (2) to enable them to use statistical methods in dealing with unclassified data; (3) to acquaint them with terms, processes, and procedures in educational literature that can be learned in no other way.

Topics: This course treats the following statistical topics in an elementary way: (1) scope and limitations of educational statistics; (2) the study and meaning of frequency distributions and tabulations; (3) determining class intervals, values, sizes, mid-points, choices; (4) studying central tendency; modes, medians, means, quartile, and standard deviations; (5) relationships: rank-order and product-moment methods, linear, multiple, and partial correlations; (6) graphs: histograms, polygons, ogive or percentile curves.

Education 389. Extra-Curricular Activities. Two hours.

Purpose: (a) To give an acquaintance with the philosophy underlying extra-curricular activities, with a knowledge of the values and obstacles in achieving the various goals, and (b) to give an acquaintance with the principles of organization and details of administering the various activities.

Topics: Cardinal objectives of curricular activities; car-

dinal objectives of extra-curricular activities. The following activities are considered from the points of value; obstacles in the way of achieving the values, principles of administration and control, details of organizing and administering student government, publications, assemblies, honor societies, athletics, commencements, club activities and entertainments. Members of the class are expected to make a detailed study of an activity.

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

Prerequisites: Education 120, 154, 221, 226, and 350 or permission of the instructor.

Purpose: This course is a continuation of Education 120 and is designed to aid prospective teachers in rounding out their understanding of the total elementary school and its program.

Topics: The total elementary school curriculum as viewed by teachers, supervisors, and administrators; extra-curricular activities; the elementary teacher's place in professional growth and research projects; observing rural and consolidated schools in operation; evaluation of elementary education; the P.-T. A.; advanced planning; techniques of cooperation with other teachers in the improvement of the total elementary school program; obtaining a position; and getting along in the school community.

Education 425. Supervised Student Teaching. Four hours.

Prerequisites: Education 325 and its prerequisites.

Purpose: This is a continuation course to Education 325. It is designed for students who wish to earn more than four hours of student teaching at the elementary level. This course should be taken during the senior year.

Education 426. Pupil Accounting. Three hours. (Required course for the Attendance Officer's Certificate.)

Purpose: To acquaint the student with Kentucky attendance laws; duties to the state, county, and patrons under the law.

Topics: Kentucky school laws; setting-up the attendance

office; attendance officer as a welfare worker; attendance officer as a policeman; records, files, and reports required to be kept by the officer; and other topics related to the work of this important office.

Education 427. Diagnostic and Remedial Techniques. Two to six hours.

Prerequisites: Nine hours in psychology, including a measurement course, and the approval of the instructor.

Purpose: To equip future teachers with an understanding of and the ability to correctly diagnose student difficulties; to enable them to apply correct remedial techniques in the solution of student problems.

Topics: The value of cumulative records in diagnosis; diagnostic tests used with school children; the causes of retardation; specific disabilities in school subjects; and behavior problems of school children.

Education 451. Public School Administration and Supervision. Three hours.

Prerequisite: Fifty-seven hours of standard college work, at least twelve of which must be in education.

Purpose: To prepare prospective superintendents and other school administrators for their work, and to give teachers a more thorough understanding of the school system.

Topics: A study of the organization and business management of the school system; the board of education and its authority, and the laws under which it operates; the economical expenditure of funds and proper accounting for them; building schools; rearranging district boundaries; the establishment of consolidated schools with provision for transportation; the keeping of records.

Education 452. Elementary School Administration and Supervision. Three hours.

Prerequisite: Fifty-seven hours of standard college work, at least twelve of which must be in education.

Purpose: To investigate the methods and possibilities of administration and supervision in the elementary schools; to prepare individuals for doing this work and to prepare teach-

ers for intelligent cooperation with the principal by helping them to gain an understanding of the methods and aims of the work.

Topics: A study of the ways in which instruction may be improved in elementary schools; the place of standardized tests in supervision; plans for teachers' meetings; plans for publicity in the community; the possibilities for work by the principal; the instruction of teachers in the use of the course of study.

Education 472. Fundamentals of Secondary Education. Four hours.

Prerequisites: Six hours of education and junior standing.

Purpose: To provide orientation in the field of teaching at the secondary level. It should acquaint teachers with various principles, methods, and techniques of teaching in the Junior-Senior High School. It should finally leave the teacher with a definite philosophy concerning his teaching. This course is a prerequisite to Supervised Student Teaching and is therefore closely associated with observation and other experience in the Training School, leading to Supervised Student Teaching in subsequent semesters.

Topics: Adjusted human-factors in learning; the teacher as a personnel worker; advanced planning, unit construction, and daily lesson plans; culminating and evaluating activities; use of illustrative material and supplementary aids; professional activities of the beginning teacher; obtaining a position; successful community relationships; and finally the production of a course unit for actual use in the Training School.

Education 475. Supervised Student Teaching. Four hours.

Prerequisites: Education 375 and its prerequisites.

Purpose: This course is a continuation of Education 375.

Education 476. Reading in the Secondary School. Three hours.

Purpose: To assist high school teachers and administrators in coping intelligently with the problem of reading

deficiencies so commonly found among pupils at the high school and junior college levels.

Topics: Particular emphasis will be placed on the need for teaching reading in the high schools, causes for retardation in reading, types of difficulties, remedial measures, materials of instruction, and administrative problems affecting reading. Some observation and analysis of actual cases and their treatment will constitute an important part of the course.

Education 484. Philosophy of Education. Three hours.

Prerequisite: Nine hours in education.

Purpose: The purpose of this course is to give the student a unified view of the whole educative process. Such a view is highly essential to properly guiding and planning administrative and other phases of educational service.

Topics: Individual education as adjustment; the philosophy of education as conditioned by the theory of mind; philosophies of learning; the place of freedom and authority in education in a democracy; the sociological basis for a philosophy of education; a sociological-philosophical interpretation of the seven cardinal principles of education; determining the value and function of the various types of education and of the various subjects; studying how society should support and control education.

Education 486. Adult Education. Two hours.

Prerequisite: Junior standing.

Purpose: To assist in developing understanding and perspective leading to living a more enriched life.

Topics: The ways and means of enriching the lives of adults according to principles consonant with civic problems in the community; the duties and opportunities of teachers, principals, superintendents, agricultural workers, and other professional and lay leaders.

Education 490. School Buildings. Two hours.

Prerequisite: Course work in school administration or teaching experience.

Purpose: To aid school administrators, teachers, and other interested persons in constructing school buildings which

will adequately house the type of educational program most needed in the community; to make it possible to meet state building standards, to save money, and avoid common errors in building; and to broaden understandings relative to proper care and maintenance of school buildings.

Topics: Building sites; architectural services; types of buildings; co-operative plans of buildings; financing a building program; insurance; care, repair, and maintenance; score cards and check lists; current state building programs.

Education 493. High School Administration and Supervision. Three hours.

Prerequisites: Junior standing and at least nine hours in education.

Purpose: To give the high school principal a knowledge and grasp of the major problems involved in the administration and supervision of his school. The administrative functions of the high school teaching staff will also receive attention.

Topics: The office; the pupil; the teaching staff; instruction; supervision; study; testing and examination program; marking system; schedule-making; extra-curricular program; publicity; financial program; and similar topics.

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

Purpose: To focus attention upon some of the more pressing problems in the field of elementary education and to permit graduate students to pursue individual research on one of these problems under the general supervision of some member of the department of education.

Topics: In a problem course of this type, the topics may vary from time to time and will be conditioned, in part, by local educational needs. Problems of early childhood growing out of the school environment, grouping of pupils, school attendance, health aspects of the elementary pupil, the diagnosis and remedial techniques pertaining to special problem cases, home-school relationships, and special problems growing out of the elementary curriculum will be among the topics currently treated in this course.

Education 523. Learning in the Elementary School. Two hours.

Prerequisites: Education 154 and Education 120 with instructor's permission.

Purpose: To study more intensively the concept of mental growth as a dynamic process of interaction between the individual and his environment.

Topics: Problems and psychological positions which are becoming more influential in modern American thought and practice; constructive analyses of the elementary teacher's problems in the light of psychological insight and knowledge; recent educational research and its bearing upon educational thinking and planning in the elementary field.

Education 524. Modern Elementary School Curricula. Two hours.

Purpose: To investigate the ideas of the past and to attempt an evaluation of present and future trends in curriculum planning.

Topics: The purposes and objectives of elementary education as reflected in curricula; psychological aspects of school-subject placement; historical survey of curricula; survey of courses of study; programs of studies; outcomes and trends of curricula at present and their implications for the schools of tomorrow.

Education 526. Investigations in Reading. Two hours.

Prerequisites: Education 226 and six hours of psychology.

Purpose: (a) The purpose of this course is to study the current literature in this field. (b) The student will present papers on different topics for the purpose of investigation and evaluation. (c) An effort will be made to study the modes of approach in making scientific studies and pertaining to reading.

Education 528. Legal Basis of the Public Schools. Three hours.

Purpose: To develop an understanding of the legal principles involved in the administration of the schools with special emphasis on the Kentucky code.

Topics. The state's responsibility for education; legal safe-guards on school funds; status of the local school district; responsibilities of school boards and school officials; liability of school districts and officers; legal provisions affecting school personnel, attendance, discipline, text-books and courses of study.

Education 554. Psychology of Learning. Three hours.

Prerequisite: Six hours of psychology.

Purpose: To aid students to develop a clear understanding of how learning takes place so that they may be able to promote learning on the part of others by using the most productive methods and techniques.

Topics: The fundamental principles of learning including a study of 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.

Prerequisites: Education 154 and 350.

Purpose: To prepare teachers to deal with atypical children.

Topics: 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.

Purpose: To give the student a knowledge of the limits of normal and abnormal behavior so that he will be able to better judge personality trends.

Topics: Pattern of behavior encountered in organic and functional cases of mental deterioration, e.g., paresis, alcoholism, drug addicts, manic-depressives, Schizophrenics, anxiety neuroses, and psychopathics.

Education 557. Mental Measurements. Three hours.

Purpose: To acquaint the student with the types of

psychometric scales used to measure mental ability and to compare the purpose and scope of each scale.

Topics: All mental scales with special emphasis on the Wechsler-Bellevue and Stanford-Binet scales.

Education 570. Research Problems in Secondary Education. Three hours.

Purpose: To focus attention upon some of the more pressing problems in the field of secondary education and to permit graduate students to pursue individual research on one of these problems under the supervision of one or more members of the department of education.

Topics: As in the case of Education 520, the topics in this course will vary somewhat from time to time depending upon national developments and local conditions. Generally such topics as growth and trend in administrative and instructional practices with respect to reorganization, articulation, equipment, personnel, program of studies, etc.; the re-examination of secondary education relative to the present needs of adolescents and their later social adjustments; staff qualifications and relationships; the re-evaluation and re-organization of secondary education; current needs relative to administrative, instructional, and social leadership; the general aims of secondary education in light of new social, cultural, and economic needs, basic knowledge, skills, etc., will be among the topics considered.

Education 571. Graduate Seminar in Education. One hour.

Purpose: To provide graduate students an opportunity to work in an informal environment with professors in the department of education on matters of vital interest to educators, and to provide a clearing house for the review of individual students' research projects and theses.

Topics: A review of current educational research topics, yearbooks, national reports, and textbooks; current school legislation; problems of local school finance; transportation; school plant planning and managing; and curriculum problems.

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

Education 573. Modern Secondary School Curricula. Two hours.

Purpose: To investigate and attempt to evaluate the past, present, and newer curricular aims of the secondary schools.

Topics: (1) The various aims and objectives of the secondary schools as indicated through their current curricula; (2) basic principles of curricular development, and their significant influences; (3) primitive, ancient, medieval and current curricular practices and objectives; (4) a survey of programs of studies, current curricula, courses of study, subject matter, and content; (5) the study of subject fields for curriculum building; (6) constructive criticism of secondary-school curricula; (7) evaluating educational objectives in the light of modern curricular values; (8) the secondary-school curricula of tomorrow.

Education 580. Democracy and Education. Two hours.

Purpose: To detect and state the ideas implied in a democratic society and to apply these ideas to the problems of the enterprise of education.

Topics: Philosophy as it connects the growth of democracy with the development of the experimental method in the sciences; evolutionary ideas in the biological sciences and the industrial reorganization; the changes in subject matter and method of education as indicated by the developments of democracy; the new perspective in educational theory and practice, and a new interpretation of American democracy and American life.

Education 584. School Finance. Three hours.

Purpose: To develop (1) understanding of the problems involved in the financial support and administration of the public schools; (2) skill in the technique of efficient financial administration.

Topics: 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.

Purpose: To acquaint graduate students with methods and techniques commonly employed in the solution of educational problems.

Topics: The selection, de-limitation and statement of a research problem; choosing a title; using the library and techniques in bibliography building; methods of organization; review of related literature; the use of quotations, paraphrasing, foot-noting, and manuscript form; and the spacing of tables, figures, tables of content, title pages, page numbers, the appendix, etc.

Education 598. Thesis Writing. Four-five hours.

Education. Workshop in Elementary Education. Twenty hours.

Purpose: Workshop courses have been designed primarily to meet the needs of teachers off the campus. However, such courses may also be taught on the campus. The college has sponsored several of both types of courses with considerable satisfaction and success. The courses have not been entirely divorced from the theory that their main function has been to put the theories of education to practical test, using only what proved most fruitful to the inexperienced teacher. One of the main functions of such courses is to broaden the whole educational program, extending it beyond the border of the school-room, reaching out into the community, and working with school patrons.

Topics: Considerable handwork has been required in these courses, such as the making of charts, maps, flash cards, posters, projects, etc. Other important items covered besides learning the fundamentals are: the health program, school lunches, recreational facilities, P. T. A., sources of free and inexpensive materials, use of duplicating devices, etc.

ENGLISH

Mr. Miles
Miss Humphrey

Mr. Banks

Mr. Bradley
Miss Schmitt

OBJECTIVES:

1. To make a significant contribution to the general education of all students by—
 - a. Helping them improve their spoken and written 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 school.
3. To provide an adequate foundation for the future study of English at the graduate level.

REQUIREMENTS:

For all degrees:

	Sem. Hrs.
English Composition 101 and 102	6
Literature—three courses selected from 200–299	6

For a Major: (In addition to freshman and sophomore courses.)

Required: English 450	3
One course selected from English 363, 435, or 453	3
One course selected from English 336, 338, or 339	2–3
One course selected from English 386, 434, or 460	2–3
Elective in English	6–8
Total for a Major	30

For a Minor: (In addition to freshman and sophomore courses.)

Required: English 363 or 386	3
Elective in English—to be selected from 300 and 400 courses	9
Total for a Minor	24

Additional recommendations for majors and minors:

1. A student preparing to teach English should arrange for supervised teaching in this field (see Education 375, 475).
2. He should choose his other fields of special study with the aim in mind of making his preparation as complete as possible,

either in one teaching field or in that combination of fields which seems best suited to his abilities. He should consider very carefully the importance of knowing at least one foreign language.

3. In selecting voluntary non-credit activities, he should consider at least one which is related to his field of special interest. Possibilities at Morehead include dramatics, newspaper journalism, and editorial or other work for the college annual and the college literary magazine.

4. Every English major or minor should be a lover of books, and should voluntarily spend much of his free time in the library.

Placement Test:

Upon entering college, all freshmen are given a placement test in English.

Exemption from English 101:

Of the freshmen who score highest on the placement test, a limited number may be exempted from English 101 and admitted directly to 102.

Remedial Work in English:

Should any student, at any time in his college career before his last term in residence, grow seriously and habitually careless or incorrect in his use of language, any member of the faculty may submit to the head of the department of English samples of that student's written work. The department and the Dean of the College will then investigate, and may require the student to repeat English 101 without credit. The student shall then spend in this course at least one full semester, and any additional terms which may be necessary to earn a mark of "C". In extreme cases, the department may, with the Dean's approval, require in addition the repetition of English 102.

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 English

FRESHMAN YEAR	
First Semester	Second Semester
Eng. 101—English Composition 3	Eng. 102—English Composition 3
P. E. 100—Orientation in Phys. Ed. ½	P. E. 100—Orientation in Phys. Ed. ½
Hist. 131—History of Civilization 3	Hist. 132—History of Civilization 3
*Biol. 101—Int. to Biological Science 3	*Biol. 102—Int. to Biological Science 3
P. E. 104—Personal Hygiene 2	P. E. 285—Community Recreation 2
Second Major 3	Second Major 3
Elective 2	Elective 2
<hr/> 16½	<hr/> 16½

SOPHOMORE YEAR

First Semester		Second Semester	
Eng. —Sophomore literature	2	Eng. —Sophomore literature	4
P. E. —Activity course	½	P. E. —Activity course	½
*Ph. Sc. 101—Int. to the Physical Sciences	3	*Ph. Sc. 102—Int. to the Physical Sciences	3
†Social Science	3	†Social Science	3
Educ. 154—Educational Psychology	3	Core Curriculum	3
Second Major	3	Second Major	3
Elective	2		
	<hr/>		<hr/>
	16½		16½

JUNIOR YEAR

First Semester		Second Semester	
Eng. 363—Hist. of the Theatre and Drama or 436—Shakespeare or 453—Modern Drama	} 3	Eng. 336—Tennyson and Browning or 338—Chief Romantic Poets or 339—Later Victorian Poets	} 2-3
Educ. 354—Psychology of Childhood		3	
Core Curriculum	3	Educ. 472—Fund. of Secondary Education	4
Second Major	3	Elective in Adv. English	3
Elective	4	Second Major	3
		Elective	3-4
	<hr/>		<hr/>
	16		16

SENIOR YEAR

First Semester		Second Semester	
Eng. 386—World Literature or 434—The English Novel or 460—History of the Eng. Lang.	} 2-3	Eng. 450—Integrating Survey	3
Educ. 375—Student Teaching		4	Educ. 475—Student Teaching
Second Major	3	Second Major	3
Elective in Adv. English	3	Elective in Adv. English	3
Elective	2-3	Elective	2
	<hr/>		<hr/>
	15		15

* If the Second Major is selected in one of the sciences the student should not enroll for these courses.

† If the Second Major is selected from the social sciences, the student should substitute some other field at this point in order to fulfill requirements in the Core Curriculum.

DESCRIPTION OF COURSES

English 101. English Composition. Three hours.

Required of all students entering college.

Purpose: To encourage in both speech and writing (a) habitual application of the student's knowledge of correctness in language, and (b) free, natural, interesting self-expression.

Topics: A careful review of the mechanics of writing, sentence structure, parts of speech, punctuation, spelling; short and frequent themes in which all these get functional emphasis; use of dictionary; various types of oral composition; original talks.

English 102. English Composition. Three hours.

Prerequisite: English 101.

Purpose: To give further practice in the use of correct and effective English in writing and speaking.

Topics: The writing of compositions; the use of reference books; the grasping and formulating of ideas; introduction to primary types of literature through selected reading; making reports; paragraphing; outlining.

English 226. Literature for Children. Three hours.

Prerequisite: English 102, or 101 with a mark of B.

Purpose: To acquaint the student with the story-interests of children at different ages; to familiarize them with sources and backgrounds of such literature; and to give practice in story-telling and in making library lists.

Topics: 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.

English 244. Kentucky Literature and Folklore. Two hours.

Prerequisite: English 102.

Purpose: To acquaint the student with the important Kentucky writers and their best works; also to acquaint the student with other important writings about Kentucky.

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

English 280. Elementary Principles of Journalism. Three hours.

This course will count as an elective toward any certificate or degree, but not as a substitute for a required literature course. Practical experience is afforded to students in this class by actual work on the college newspaper. Students

exempted from English 101 may enroll for Journalism after completing 102 with permission of the department head.

Prerequisite: English 101.

Purpose: To provide training in the principal types of journalistic writing; to give a background knowledge of problems, processes, and practices in present day newspaper publishing and printing; to develop an ability to evaluate critically the modern newspaper, which will probably provide a large part of the individual's reading after leaving school; to give training and experience which will enable the student to supervise a high school publication.

Topics: Newspaper organization; news gathering; structure and style in news stories; reporting speeches and interviews, accident and crime stories, sports stories; society news, human interest stories and feature articles; copy reading; headline construction, make-up, typography; and high school publications.

English 285. Homer and Virgil. Two hours.

Prerequisite: English 102.

Purpose: To study two of the masters of ancient literature; to increase the student's awareness of Greek and Latin influences in modern literature, language and thought.

Topics: The *Iliad*, the *Odyssey*, and the *Aeneid*, in English translation.

English 287. The Bible as English Literature. Two hours.

Prerequisite: English 102.

Purpose: To study selected passages as literature (not as doctrine); to increase the student's awareness of Biblical influence in modern literature, language, and thought.

Topics: Narrative selections — a representative book of prophecy, dramatic portions from *Job* or the *Song of Solomon*; some of the great Psalms, a few well-known parables.

English 288. Introduction to Drama. Two hours. (Formerly Introduction to Shakespeare.)

Prerequisite: English 102.

Purpose: To acquaint the student with the fundamental

structure of the drama by intensive analysis of concrete examples.

Topics: Intensive study of eight plays, including one Greek, one Roman, one medieval Mystery, two Shakespearean, one European from the seventeenth or eighteenth century, and two modern plays. Problems in dramatic criticism.

English 295 American Literature 1870-1914. Two hours.

Prerequisite: English 102.

Purpose: To increase the student's background knowledge of American life and culture as reflected in literature.

Topics: Poetry and prose between the dates indicated, with emphasis on selected major figures.

English 296. American Literature 1914 to the Present. Two hours.

Prerequisite: English 102.

Purpose: To acquaint the student with selected recent authors of fairly well-established reputation.

Topics: Poetry and prose from about 1914 to about 1946, with emphasis on selected major figures.

English 297. British Literature 1900-1940. Two hours.

Prerequisite: English 102.

Purpose: To acquaint the student with selected recent authors of fairly well-established reputation.

Topics: Poetry and prose from about 1900 to 1940, with emphasis on selected major figures.

English 303. Creative Writing. Two hours.

Prerequisites: English 101 and 102.

Purpose: To develop facility in writing in one or more popular forms.

Topics: The method of presentation and subject-matter will vary according to the interests of the class. Ordinarily, such forms as the essay, short story, and poem will be stressed.

English 334. Modern Poetry. Two hours.

Prerequisite: Nine hours of English, including 101 and 102.

Purpose: To study the most significant English and American poetry since 1900.

Topics: Changing views and methods of poetry since 1900; influence of the magazines; chief English and American poets; tendencies in modern poetry.

English 336. Tennyson and Browning. Three hours.

Prerequisites: English 102, and 6 hours' credit in literature.

Purpose: To give a fairly thorough familiarity with the two principal figures in Victorian poetry.

Topics: Extensive reading from the poems and investigative papers.

English 338. Chief Romantic Poets. Three hours.

Prerequisites: English 102, and 6 hours' credit in literature.

Purpose: An adequate introduction.

Topics: Selections from the poetry of Wordsworth, Coleridge, Byron, Shelley, and Keats.

English 339. Later Victorian Poets. Two hours.

Prerequisites: English 102, and 6 hours' credit in literature.

Purpose: To acquaint the student with the most important Victorian poetry other than that covered in English 336 (Tennyson and Browning).

Topics: The poets most emphasized are Arnold, Clough, Fitzgerald, the Rosettis, Morris, and Swinburne.

English 341. Earlier American Literature. Three hours.

Prerequisites: English 102, and 6 hours' credit in literature.

Purpose: To acquaint the student with the origins and the pre-Civil War development of American letters.

Topics: The principal authors from colonial times to about 1870.

English 342. American Literature. Three hours.

Prerequisites: English 102 and six hours' credit in literature.

Purpose: To acquaint the student with American literature after the Civil War.

Topics: Selected writers, with emphasis on Mark Twain and Walt Whitman.

English 363. History of the Theatre and Drama. Three hours.

Prerequisites: English 102, and 6 hours' credit in literature.

Purpose: To acquaint the student with significant examples of dramatic literature from Aeschylus to Shaw; to familiarize the student with a few developments in the theatre; and finally to aid the student to develop critical standards for judging play and stage.

Topics: Important plays of representative dramatists of the Greek, Roman, Pre-Shakesperean, Elizabethan, French classical, Restoration, Neo-Classical, Nineteenth and Twentieth Century Drama. The development of the theatre.

English 386. World Literature. Three hours. (Formerly English 286.)

Prerequisite: English 102.

Purpose: To familiarize the student with the literature of other lands and peoples, to develop a deeper understanding of other nations through their greatest writings, and to encourage wide reading throughout life.

Topics: The development of such types of literature as the epic, drama, oratory, biography, letters, novels, short stories, essays, and lyric poetry, in various national literatures.

English 434. The English Novel. Two hours.

Prerequisites: English 102, and 9 hours' credit in literature.

Purpose: To give the student through extensive reading and class discussion, some idea of the development, nature, and significance of the novel as a branch of literature.

Topics: The greater English novelists from Defoe to Hardy.

English 435. Shakespeare. Three hours.

Prerequisites: English 102, and 9 hours' credit in literature.

Purpose: To study the plays primarily as to thought and character study, and secondarily as to language and dramatic structure.

Topics: Selected plays of each type, more numerous and more rapidly studied than in English 288 (Introduction to Drama).

English 450. Integrating Survey. Three hours. Required of senior English majors.

Prerequisites: Senior classification, and at least 20 hours' credit toward a major in English.

Purpose: To correlate more specialized courses, and to give the student some sense of the history of our culture as reflected in literature.

Topics: The principal epochs in English literature from Anglo-Saxon to modern times; the main trends of American literature since Colonial times. Problems arising in correlation.

English 453. Modern Drama. Three hours. (Formerly English 353.)

Prerequisites: English 102, and 6 hours' credit in literature.

Purpose: To show the development and tendencies in Continental, British, and American dramatic literature from Ibsen to the present.

Topics: Significant plays of representative recent and contemporary dramatists of Norway, France, Italy, Germany, Russia, Belgium, England, Ireland, and the United States.

English 460. History of the English Language. Three hours.

Prerequisite: Completion of sophomore requirements in English.

Purpose: To introduce the student to the scientific study of language; to give some sense of the continuity of linguistic development, and of the various influences still active in shaping our speech.

Topics: Sources of English vocabulary; history of the principal linguistic changes; variations in present-day English.

SPEECH AND DRAMATICS

English 182. Corrective Speech. Two hours.

Purpose: To present the student with an opportunity to analyze, correct, develop, and assist his voice in its proper production.

Topics: Importance of the voice in social relations and vocational speech achievements; voice and tone production; voice recording and its analysis; voice delivery; anatomy of the voice mechanism; breathing and timing.

English 281. Public Speaking. Three hours.

Purpose: To train the student to express himself clearly and effectively while standing before an audience.

Topics: Rudimentary platform principles; movements; voice; composition of various types of speech; much actual practice in the preparation and delivery of original speeches.

English 283. Elementary Dramatics. Two hours.

Purpose: To acquaint the student with the basic elements of producing a play.

Topics: Principles of pantomime, stage business, setting, costuming, lighting, and make-up; theory of stage directing and play selecting.

English 284. Choral Speaking. Two hours.

Purpose: To acquaint the student with the speaking of literature so that the meaning and spirit of the material are given with vividness.

Topics: Techniques of choral speaking and of directing choral groups; practice in choral speaking; types of material and arrangements.

English 382. Debate and Argumentation. Two hours.

Purpose: To engender facility, poise, persuasion, logic, and ethics in procedures of disputation.

Topics: Relation of speaker and audience; theory of argumentation; types of debating; gathering material; parliamentary practice; practice in different kinds of debating.

English 383. Advanced Dramatics. Two hours.

Prerequisite: English 283 or approval of instructor.

Purpose: To give the student practice in producing a play.

Topics: Presentation of a series of one-act plays, to be chosen, cast and directed by students under supervision of the instructor; opportunities to try out theories of lighting, costuming, setting, and directing.

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:

	Sem. Hrs.
<i>For a Major:</i>	
Geography 100, 211, 241, 460, 475, and Geology 100	18
Elective in geography	9
Total for a Major	27
<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, and 332	12
Additional advanced credit in history	6

Political Science 241	3
Additional advanced credit in political science	3
Sociology 201	3
Additional credit in sociology	3
Economics 201 and 202	6
Geography 100	3
One additional course in geography to be selected from: 241, 320, 331 or 383	3
The remaining 6 hours are elective and may be selected from any of the social sciences	6
Total for an Area Major	48

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

FRESHMAN YEAR

First Semester		Second Semester	
Eng. 101—English Composition	3	Eng. 102—English Composition	3
P. E. 100—Orientation in Phys. Ed.	½	P. E. 100—Orientation in Phys. Ed.	½
*Biol. 101—Int. to Biological Science	3	*Biol. 102—Int. to Biological Science	3
Geog. 100—Fundamentals of Geography	3	Geog. 211—Economic Geography	3
P. E. 104—Personal Hygiene	2	Geol. 100—General Geology	3
Second Major	3	Second Major	3
Elective	2		
	16½		15½

SOPHOMORE YEAR

First Semester		Second Semester	
Eng. ———Sophomore literature	2	Eng. ———Sophomore literature	2
P. E. ———Activity course	½	P. E. ———Activity course	½
*Phys. 101—Int. to the Physical Sciences	3	*Phys. 102—Int. to the Physical Sciences	3
Geog. 241—North America	3	Econ. 200—General Economics or Soc. 201—Introductory Sociology	3
Hist. 241—The United States 1942-1865	3	Hist. 242—The United States 1865—	3
Foreign Language	3	Foreign Language	3
P. E. 285—Community Recreation	2	Elective	2
	16½		16½

JUNIOR YEAR

First Semester		Second Semester	
Eng. * ———Sophomore literature	2	Educ. 472—Fund. of Secondary Education	4
Educ. 354—Psychology of Adolescence	3	Geog. 320—South America	3
Geog. 331—Europe or 460—Historical Geography	3	Geog. 383—Asia	3
Foreign Language	3	Foreign Language	3
Second Major	3	Second Major	3
Elective	2		
	16		16

		SENIOR YEAR			
First Semester				Second Semester	
Educ. 375—Student Teaching	4	Educ. 475—Student Teaching	4		
Geog. 344—Kentucky	}	Geog. 475—Meth. and Mat. of			
or 380—Field Geography		3	Geography	3	
Second Major	6	Second Major	6		
Elective	3	Elective	2		
		16		15	

* If the Second Major is selected in one of the sciences, the student should not enroll for these courses.

DESCRIPTION OF COURSES

GEOGRAPHY

Geography 100. Fundamentals of Geography. Three hours. (Formerly Principles of Geography.)

Purpose: To train the student in the observation of natural and cultural features of his everyday world; in the interpretation of human activities in their relationship to earth conditions and to relevant man-made conditions; to develop a background on which to base further study of geography.

Topics: 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.

Purpose: To make a world-wide survey of major economic pursuits; to develop a concept of the commercial world; to interpret the position of the United States in world trade.

Topics: Selected food resources and other agricultural resources; fundamentals of manufacturing and application of these in certain areas; world commerce and chief trade routes.

Geography 241. North America. Three hours.

Purpose: To make a study of the major geographic regions of Alaska, Canada, and the United States.

Topics: The major geographic regions of North America, their economic development and interpretation of this development.

Geography 251. Middle America. Three hours. (Formerly Geography 351.)

Prerequisites: Geography 100 and 241.

Purpose: To gain an understanding of the strategic and economic importance of this area to the United States.

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

Geography 280. Australia. Two hours.

Prerequisite: Geography 100.

Purpose: To give instruction in the natural environment of Australia and the relation of man's activities to this natural environment; to develop skill in the collection and use of statistical material in understanding the geography of Australia.

Topics: The location of Australia, the climatic regions, the physiographic regions; the plant and animal life; the mineral resources; the human activities in relation to the various physical conditions; making graphs of temperature and rainfall conditions for the various climatic regions; making dot maps showing the production of wheat, cattle, and sheep.

Geography 287. Africa. Two hours. (Formerly Geography 387.)

Prerequisite: Geography 100.

Purpose: To gain an understanding of the conditions, development, and significance of Africa.

Topics: Economic development in Africa in relationship to natural assets and liabilities of the continent; consideration of its strategic importance in world trade and in politics.

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

Prerequisite: Geography 100.

Purpose: To help the elementary teacher gain an understanding of the nature of regional teaching and to acquire knowledge of the outstanding features of regions taught at the elementary level.

Topics: Nature of regional geography; selection and presentation of suitable materials; principal regions of North America, South America, Europe and Asia. The study of these continents will be as much in detail as is possible in one semester and will be correlated with material in the state-adopted textbooks.

Geography 320. South America. Three hours.

Prerequisites: Geography 100 and 241.

Purpose: Knowledge of climatic, topographical, cultural, and trade conditions of the South American countries.

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

Geography 331. Europe. Three hours.

Prerequisites: Geography 100 and 241.

Purpose: To study the resources of Europe and their development.

Topics: Economic developments within the principal countries; European commerce and the part played in this by colonies; geographic interpretation of current European affairs.

Geography 344. Kentucky. Three hours.

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

Purpose: To give instruction in the resources of Kentucky; to stimulate geographic research in Kentucky.

Topics: 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 380. Introduction to Field Geography. Three hours.

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

Purpose: To give practice in conducting field trips in the elementary and upper grades; to develop ability to observe, select, and correlate facts that lead to the geographic understanding of an area studied; to give practice in assembling, charting, and mapping the area studied.

Topics: 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.

Prerequisites: Geography 100 and 331.

Purpose: To guide the student to an understanding and interpretation of the geography of the Orient.

Topics: 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.

Purpose: To show the underlying geographic factors in the development of the United States; to enable students to do research work related to specific phases in the development of the state.

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

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

Prerequisite: Nine hours credit in geography.

Purpose: To train teachers and students of geography in selection, organization, and classroom presentation of relevant materials.

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

GEOLOGY**Geology 100. General Geology. Three hours.**

Purpose: To give instruction in the forces and processes at work on the surface of the land; to give instruction in the internal forces and processes acting on the earth; to develop skill in the reading of topographic maps dealing with various physiographic features.

Topics: A study of the atmosphere in its relation to the

modification of the surface of the land; the work of running water; the action of subsurface water; the origin and work of lakes; the 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 the work of running water, sinks and karst topography, and mountains.

Time: Two lecture-discussion hours and two hours of field or laboratory work per week.

Geology 101. Historical Geology. Three hours.

Prerequisite: Geology 100.

Purpose: To give instruction in the origin and development of plant and animal life on the earth in relation to the physical changes of land, water, and atmospheric conditions that have occurred in the various eras of the earth.

Topics: A study of fossils, rocks, minerals, and other economic resources occurring in the various periods in the geologic history of the earth.

Time: Two lecture-discussion hours and two hours of field or laboratory work per week.

HEALTH AND PHYSICAL EDUCATION

Mr. Pepper

Mr. Laughlin

Mr. Radjunas

Mr. Johnson

Miss Kennedy

Mrs. Wells

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 requirements listed above)

Physical Education 109, 203, 295, 298, 320, 351, 360, 375, 405, 437, and 493	25
Elective in activity courses approved by the department	2
Total for a Major	33

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

Physical Education 109, 203, and 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
Total for a Minor	24

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

Physical Education 109, 203, 295, 320, 335, 360, 365, 437, and 493	23
Elective in activity courses approved by the department	2
Total for a Major	31

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

Physical Education 109, 203, and 320	6
Elective from Physical Education 315, 335, or 365	4
Elective from Physical Education 351, 360, 437, or 493	5
Elective in Activity Courses approved by the Department	1
Total for a Minor	22

Note.—In addition to the above requirements all students majoring or minoring in health and physical education must earn credit in Biology 210, 336, and 432.

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—English Composition	3	Eng. 102—English Composition	3
P. E. 100—Orientation in Phys. Ed.	1½	P. E. 100—Orientation in Phys. Ed.	1½
P. E. 104—Personal Hygiene	2	P. E. 203—First Aid	2
P. E. 109—Introduction to Phys. Ed.	2	Biol. 210—General Zoology	4
Biol. 101—Int. to Biological Science	3	Hist. 132—History of Civilization	3
Hist. 131—History of Civilization	3	Second Major	3
Educ. 154—Educational Psychology	3		
	<hr/> 16½		<hr/> 16½
SOPHOMORE YEAR			
First Semester		Second Semester	
Eng. ————Sophomore literature	2	Eng. ————Sophomore literature	2
P. E. ————Activity course	1½	P. E. ————Activity course	1½
P. E. 285—Community Recreation	2	P. E. 298—Officiating of Games	2
P. E. 295—Coaching Basketball	2	Second Major	6
Second Major	3	Core Curriculum	3
Core Curriculum	3	P. S. 241—Government of the U. S.	3
Econ. 200—General Economics	3		
	<hr/> 15½		<hr/> 16½
JUNIOR YEAR			
First Semester		Second Semester	
Eng. ————Sophomore literature	2	P. E. ————Activity course	1½
P. E. ————Activity course	1½	P. E. 360—Hist. and Prin. of Phys. Ed.	3
P. E. 320—Plays and Games in El. Sch.	2	P. E. 351—Camp Leadership	2
P. E. 375—Coaching Football	2	Educ. 472—Fund. of Secondary Education	4
Educ. 354—Psychology of Adolescence	3	Biol. 432—Physiology of Exercise	3
Biol. 336—Human Anatomy	3	Second Major	3
Second Major	3		
	<hr/> 15½		<hr/> 15½
SENIOR YEAR			
First Semester		Second Semester	
P. E. ————Activity course	1½	P. E. ————Activity course	1½
P. E. 437—Therapeutics	3	P. E. 405—Coaching Baseball and Track	2
Elective in science	3	P. E. 493—Organ. and Admin. of Phys. Ed.	3
Educ. 375—Student Teaching	4	Educ. 475—Student Teaching	4
Second Major	3	Second Major	3
Elective	3	Elective	4
	<hr/> 16½		<hr/> 16½

DESCRIPTION OF COURSES

OPEN TO BOTH MEN AND WOMEN

Physical Education 104. Personal Hygiene and Public Safety. Two hours.

Purpose: To acquaint the student with the fundamentals of health so that he may participate more successfully in the art of living.

Topics: The 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 109. Introduction to Physical Education. Two hours.

Purpose: To acquaint the student with available materials, and to enable him to understand the scope and significance of health and physical education as a specialized or classroom teacher.

Topics: Aims and objectives; significance in the school program; health supervision; health instruction; health service; standards for contest programs; professional qualifications, preparation, and opportunities; principles and basic philosophy, including professional ethics.

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

Purpose: To acquaint the student with the various types of folk dances and their interpretation; to introduce the fundamental steps necessary to enjoy participation.

Topics: Folk dances and singing games of all nations.

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

Purpose: To meet a social need of the students on the campus.

Topics: Social dancing through practice and dance floor courtesy.

Physical Education 203. First Aid. Two hours.

Purpose: To prepare by lecture, demonstration, and practice for administering first aid in emergencies which may occur in school, on the playground, athletic field, and outings.

Topics: 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.

Purpose: To study the fundamental principles of health and sanitation and to apply these to community problems.

Topics: 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. Fundamental Rhythms. One-half hour.

Purpose: To afford an opportunity for self-expression through rhythmic movement.

Topics: 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.

Purpose: To acquaint the students with materials and methods of organization and administration of community recreation.

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

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

Purpose: To learn through participation, plays and games that may be used in the elementary grades, and to study plays and games through observation and teaching experience.

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

Physical Education 335. Materials and Methods of the Dance. Two hours.

Prerequisites: Physical Education 133 and 231.

Purpose: To acquaint students with materials and methods for teaching the dance to elementary, high school, and recreational groups.

Topics: Dance materials applicable to the above-named groups; fundamental singing games and folk dances; program planning; cadet teaching.

Physical Education 351. Camp Leadership. Two hours.

Purpose: To acquaint the student with the importance of camping as an educational activity. To prepare students as camp counselors.

Topics: The history, theory, and scope of organized camping; camp styles and programs; techniques of leadership; duties and responsibilities of counselors.

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

Prerequisite: Junior or senior standing on the physical education major.

Purpose: To give a survey of the background of physical education and the beliefs on which it is based.

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

Physical Education 437. Therapeutic Exercises. Three hours.

Prerequisites: Biology 332 and 336.

Purpose: To give the student adequate knowledge and understanding of the more common defects found in the human organism and how these defects may be corrected.

Topics: The common defects of the body and their correction through exercise.

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

Prerequisite: Junior or senior standing on the physical education major.

Purpose: To develop an understanding of the approved policies for organizing and administering the physical education program.

Topics: 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.)

Purpose: To provide an opportunity for participation in seasonal activities as a means of guidance in selection of physical activities for leisure time; to develop the fundamental skills essential for enjoyable participation.

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

Physical Education 101. Volleyball. One-half hour.

Purpose: To acquire the fundamental skills and practice in game situations in volleyball.

Topics: Rules; participation in the activity.

Physical Education 102. Basketball. One-half hour.

Purpose: To acquire the fundamental skills and practice in game situations in basketball.

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

Physical Education 103. Soccer. One-half hour.

Purpose: To acquire the fundamental skills and practice in game situations in soccer.

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

Physical Education 106. Softball. One-half hour.

Purpose: To acquire the fundamental skills and practice in game situations in softball.

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

Physical Education 111. Badminton. One-half hour.

Purpose: To learn the fundamentals of the game and to acquire sufficient skill to enjoy participation.

Topics: 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.

Purpose: To learn the fundamentals of tennis and to put them into practice in game situations.

Topics: The grip, stance, and other points relating to form of the forehand and backhand drives and service; rules and scoring.

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

Purpose: To learn the fundamentals of swimming.

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

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

Purpose: To develop fundamental skills in stunts, tumbling, and gymnastics; to provide a working knowledge of the more formal activities; to develop body coordination and flexibility.

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

Physical Education 123. Recreational Sports. One-half hour.

Purpose: To provide sufficient skill and knowledge of activities requiring but one or two persons for participation that desirable forms of leisure time activity may be developed.

Topics: Skills, techniques, and rules; matches and tournament play in table tennis, shuffleboard, tennequoit, quoits, darts, etc.

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

Prerequisite: Physical Education 116 or its equivalent.

Purpose: To acquaint students with the more advanced techniques of tennis strokes and with the fine points of game strategy.

Topics: Advanced strokes; types of offensive and defensive play.

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

Prerequisite: Physical Education 117 or its equivalent.

Purpose: To acquaint the student with the theory and practice of various advanced water activities.

Topics: Standard strokes; diving; and swimming meets.

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

Prerequisite: Physical Education 216 or its equivalent.

Purpose: To develop greater proficiency in tennis.

Topics: Perfection of play in tennis and tournament competition.

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

Prerequisite: Physical Education 217 or its equivalent.

Purpose: To develop greater facility in swimming and diving.

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

CLASSES FOR WOMEN ONLY

Physical Education 107. Body Mechanics. One-half hour.

Purpose: To acquaint the student with fundamental skills necessary for the correction and use of her body.

Topics: Individual problems of the student concerned, e.g., forward shoulders, protruding abdomen, sway back, fallen arches, etc.

Physical Education 110. Archery. One-half hour.

Purpose: To learn the fundamentals of archery and to acquire sufficient skill to enable enjoyment upon participation.

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

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

Purpose: To learn the fundamentals and rules of the game of field hockey.

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

Physical Education 200a and 200b. Seasonal Activities. One-half hour each. (Required for all sophomore girls.)

Purpose: To provide for the development and practice of more advanced skills and techniques in two activities of one's own choosing.

Topics: Two activities to be selected by the student.

Physical Education 315. Materials and Methods of Swimming. Two hours.

Prerequisite: Satisfactory performance on skill tests in swimming.

Purpose: To give the student a knowledge of the principles underlying the theory and practice of swimming and experience in teaching swimming.

Topics: Location of material; mechanics of swimming and diving; class organization and methods of instruction; cadet teaching.

Physical Education 365. Materials and Methods of Teaching Sports. Two hours.

Prerequisites: Physical Education 100a, 100b, 200a, 200b, and credit in team and individual sports.

Purpose: To provide knowledge and practice in the use of materials and methods for developing skill techniques; to develop an understanding of the organization of a sports program in the elementary and secondary school.

Topics: Survey of materials and techniques; selection and care of equipment; testing of skills; rules; coaching and officiating; cadet teaching of individual and team sports.

CLASSES FOR MEN ONLY

Physical Education 112. Weight Lifting. One-half hour.

Purpose: To teach the values, techniques, and exercises for the development of muscular power through the lifting of weights.

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

Physical Education 124. Wrestling. One-half hour.

Purpose: To learn the wrestling skills and to put them

into practice in competition; to increase the desire for physical fitness.

Topics: Rules and correct form in executing the fundamental skills of wrestling.

Physical Education 295. Coaching Basketball. Two hours.

Purpose: To study the theory, methods, and mechanics of directing a basketball team.

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

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

Purpose: To study the techniques of officiating and rules and regulations pertaining to organized games.

Topics: 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.

Purpose: To study the theory, methods, and mechanics of directing a football team.

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

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

Purpose: To study the theory, methods, and mechanics of directing baseball and track.

Topics: Fundamentals; individual and team play; organization; the 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.

REQUIREMENTS:

	Sem. Hrs.
<i>For a Major in History:</i>	
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, 446, 447, 448, 450, 471	22
Advanced credit in political science	3
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 the Area Major for Social Science Teachers:</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 to be selected from: 241, 320, 331, or 383	3
The remaining 6 hours are elective and may be selected from any of the social sciences	6
Total for an Area Major	48

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—English Composition	3	Eng. 102—English Composition	3
P. E. 100—Orientation in Phys. Ed.	½	P. E. 100—Orientation in Phys. Ed.	½
Hist. 241—The U. S. 1492-1865	3	Hist. 242—The U. S. 1865- Present	3
Biol. 101—Int. to Biological Science	3	Biol. 102—Int. to Biological Science	3
Geog. 100—Fundamentals of Geography	3	Core Curriculum	3
Core Curriculum	3	Elective	3
	15½		15½

SOPHOMORE YEAR

First Semester		Second Semester	
Eng. ———Sophomore literature	2	Eng. ———Sophomore literature	2
P. E. ———Activity course	½	P. E. ———Activity course	½
Ph. Sc. 101—Int. to Physical Science	3	Ph. Sc. 102—Int. to Physical Science	3
Econ. 101—General Economics	3	Econ. 202—General Economics	3
P. S. 241—Government of the U. S.	3	Soc. 201—Introductory Sociology	3
P. E. 104—Personal Hygiene	2	P. E. 285—Community Recreation	2
Core Curriculum	3	Educ. 154—Educational Psychology	3
	16½		16½

JUNIOR YEAR

First Semester		Second Semester	
Eng. ———Sophomore literature	2	Educ. 472—Fund. of Secondary Educ.	4
Educ. 354—Psychology of Adolescence	3	P. S. ———Advanced elective	3
Hist. 331—Modern Europe	3	Hist. 332—Modern Europe	3
Geog. ———Elective	3	Core Curriculum	3
Soc. ———Advanced elective	3	Social Science advanced elective	3
Core Curriculum	3		
	17		16

SENIOR YEAR

First Semester		Second Semester	
Educ. 375—Student Teaching	4	Educ. 475—Student Teaching	4
Hist. ———Advanced elective	3	Hist. ———Advanced elective	3
Social Science advanced elective	3	Elective	3
Elective	6		
<hr/>		<hr/>	
16		15	

Provisional High School Certificate with a First Major in History

FRESHMAN YEAR

First Semester		Second Semester	
Eng. 101—English Composition	3	Eng. 102—English Composition	3
P. E. 100—Orientation in Phys. Ed.	½	P. E. 100—Orientation in Phys. Ed.	½
Hist. 131—History of Civilization	3	Hist. 131—History of Civilization	3
*Biol. 101—Int. to Biological Science	3	*Biol. 102—Int. to Biological Science	3
†Geog. 100—Fundamentals of Geography	3	†Geog. 241—North America	3
P. E. 104—Personal Hygiene	2	Elective	3
Elective	2		
<hr/>		<hr/>	
16½		15½	

SOPHOMORE YEAR

First Semester		Second Semester	
Eng. ———Sophomore literature	2	Eng. ———Sophomore literature	2
P. E. ———Activity course	½	P. E. ———Activity course	½
Hist. 241—The U. S. 1492-1865	3	Hist. 242—The U. S. 1865- Present	3
*Ph. Sc. 101—Int. to the Physical Sciences	3	*Ph. Sc. 102—Int. to the Physical Sciences	3
Second Major	3	Second Major	6
P. E. 285—Community Recreation	2	Educ. 154—Educational Psychology	3
Elective	2		
<hr/>		<hr/>	
15½		17½	

JUNIOR YEAR

First Semester		Second Semester	
Eng. ———Sophomore literature	2	Educ. 472—Fund. of Secondary Educ.	4
Hist. 331—Modern Europe	3	Hist. 332—Modern Europe	3
Educ. 354—Psychology of Adolescence	3	Core Curriculum	3
Geog. 331—Europe	3	Second Major	3
Second Major	6	Elective	3
<hr/>		<hr/>	
17		16	

SENIOR YEAR

First Semester		Second Semester	
Educ. 375—Student Teaching	4	Educ. 475—Student Teaching	4
Hist. ———Advanced elective	3	Hist. ———Advanced elective	3
Core Curriculum	3	Hist. 471—Seminar	1
Second Major	3	Second Major	3
Elective	2	Elective	4
<hr/>		<hr/>	
15		15	

* If a subject in the sciences is selected as a second major, some other field should be substituted at this point in order to meet requirements in the Core Curriculum.

† If geography is selected as a second major, some other subject should be substituted at this point in order to meet requirements in the Core Curriculum.

DESCRIPTION OF COURSES

HISTORY

History 131. History of Civilization. Three hours.

Purpose: To give a view of the development of civilization through the Renaissance period.

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

History 132. History of Civilization. Three hours.

Prerequisite: History 131.

Purpose: The study of civilization from the Renaissance to the present.

Topics: 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.

Purpose: To give a survey of social, economic, and political history during the period covered.

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

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

Prerequisite: Sophomore standing preferable.

Purpose: To continue the survey of history begun in course 241.

Topics: Reconstruction; political corruption; the far West; transportation; big business; organized labor; reform movements; the free silver crusade; the war with Spain; the Panama Canal; the Caribbean; the First World War and the

problems of reconstruction; the Depression; the New Deal; and the Second World War.

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

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

Purpose: To give a view of the development of nationality, religious reformations, industrial progress, cultural advancement, and the growth of democracy.

Topics: The development of modern nations; the Reformation and religious wars; dynastic and economic statecraft; and the 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.

Purpose: To show the continued development of nationality, the spread of national imperialism, the growth of representative government, and to present the relevant historical material essential to an understanding of conditions in Europe during the period studied.

Topics: 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 relation 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.

Purpose: To give the student information concerning Russia's history and thereby to contribute to a better understanding of world affairs. Special attention will be given to the period after 1917.

Topics: Beginnings of the Russian state; the Kiev period; Tartar domination; the Moscow period; the time of trouble and consolidation; Peter the Great; emergence of Russia as a

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

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

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

Purpose: To give the student a better understanding of world affairs and Great Britain's part in them. It is especially intended to help the student get a knowledge of the great part the British people have played in world civilization.

Topics: The building of the British political, social, and economic systems and the 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.

Purpose: To trace the development of Kentucky from pioneer days to the present, emphasizing its relations to American history.

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

History 345. The United States Overseas Territories. Three hours.

Prerequisites: United States History 242 or Political Science 241 and the consent of the instructor.

Purpose: To give the student specific and detailed information regarding our colonial areas; to show how these areas were acquired and how they have been governed; and to study their political and economic relationships to the United States.

Topics: The Era of Overseas Expansion; Puerto Rico; The

Virgin Islands; The Panama Canal Zone; Alaska; The Territory of Hawaii; "Manifest Destiny" in Greater America; The Pacific Area and Its Importance to the United States; and Our Policies for the Future.

History 346. Colonial Latin-America. Three hours.

Prerequisites: History 241 and 242, and at least junior standing.

Purpose: To trace the history of Latin-America from the era of discovery through the Wars for Independence.

Topics: Spain and Portugal in the fifteenth century; the exploration and colonization period; contracts between the Latin-American and the English settlements; the government, economy, and social life in colonial Latin-America; relations with non-Latin countries; cause of the Wars for Independence; Miranda, San Martin, and Bolivar.

History 347. Republican Latin America. Three hours.

Prerequisites: History 241 and 242, and at least junior standing.

Purpose: To set forth the major developments in the history of our Latin-American neighbors from the era of the Wars for Independence to the present, with special emphasis upon our relations with those countries.

Topics: Nascent Pan-Americanism; the era of the Caudillos; the rise and fall of the Brazilian empire; the Mexican War; the Maximilian episode; growth of the ABC countries; Blaine and Pan-Americanism; the Spanish-American War; Colombia and the Panama Canal; The "Big Stick" Policy; the fall of Diaz in Mexico and the ensuing revolution; dollar diplomacy; Europe in Latin-America; the Good Neighbor policy; Latin-America in World War II; politics, economics, religion, and social conditions in Latin-America today; the future for Latin-America.

History 360. The South Since 1865. Three hours.

Prerequisites: History 241, 242, and junior standing.

Purpose: To introduce the student to the most significant problems—social, political, and economic—which either existed

in the South at the close of the Civil War or have arisen since, and to show how the South has treated these problems.

Topics: The Reconstruction Era and its legacies; the Negro and his status; political solidity of the South—its strengths and weaknesses; manufacturing comes to the South; the Bourbons and Populism; health and education in the post-bellum period; the share cropper system versus the new agriculture; the TVA experiment and its promise.

History 436. The French Revolution and the Napoleonic Era. Three hours.

Prerequisite: At least junior standing.

Purpose: To make a fairly intensive study of the beginning of the revolutionary period in modern European history.

Topics: Conditions in France before 1789; the Revolution from 1789 to 1799; the Napoleonic Wars; the organization of France under Napoleon; the character of the Napoleonic Empire; and the work of the Congress of Vienna.

History 438. The Far East. Three hours.

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

Purpose: To make an intensive study of the Far East with emphasis placed upon contemporary international relations of that area.

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

History 440. American Colonial History. Three hours.

Prerequisite: History 241.

Purpose: To make an intensive study of the colonization of English America.

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

History 443. Sectional Controversies. Three hours.

Prerequisites: History 241 and junior standing.

Purpose: To make intensive studies of (a) the sectional divisions which existed prior to the Civil War, and (b) the Civil War itself.

Topics: 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: History 241 and 242, and at least junior standing.

Purpose: To familiarize students with the complexity of recent and contemporaneous problems in the social, political, and economic life of the people of the United States.

Topics: The economic revolution; the rehabilitation of the South; the growth of the West; agrarian unrest; third party movements; money and banking; the tariff; the rise of capitalism; transportation; labor movements; feminism; immigration; the trend of political reform; foreign contracts; the part of the United States in the first World War; problems of reconstruction after the war; the great depression; the New Deal; World War II and the peace.

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

Prerequisites: History 241 and junior standing.

Purpose: To acquaint students with the major developments in our relations with other countries from 1776 to 1890.

Topics: The French Alliance of 1778, purchase of Louisiana; War of 1812 and its effects; the Monroe Doctrine; acquisition of Oregon; Texas and the Mexican War; the Maxi-

milian 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.

Purpose: To acquaint students with the major developments in our relations with other countries since 1890.

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

History 471. Seminar. One hour.

Purpose: To give the student the opportunity to familiarize himself with the literature of the field; to work with bibliographies in special fields, and to give the student an introduction to research. This course is required of all history majors during their senior year.

POLITICAL SCIENCE

Political Science 141. Problems of Citizenship. Three hours.

Purpose: To give the student a knowledge of the fundamental problems involved in citizenship and to build a foundation for further study in political science and the related social sciences.

Topics: The powers of the people of the United States; civil liberty; public opinion; the negro problem; industrial problems; women's rights; the problem of international relations; war and peace; the immigration problem.

Political Science 241. Government of the United States. Three hours.

Prerequisite: One year of college work or the consent of the instructor.

Purpose: To explain the forms and functions of the American political system; the origin and purpose of our governmental institutions; how they have been developed by law or by usage; and their present-day workings, merits, and defects.

Topics: 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; the war powers; political parties—their origin and functions; the judicial power; and the government of territories.

Political Science 242. State and Local Government. Three hours.

Prerequisite: Political Science 241.

Purpose: To explain the place of the states in the nation and the growth of state government and institutions.

Topics: 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; and rural government.

Political Science 333. Comparative Government. Three hours.

Prerequisite: Political Science 241.

Purpose: To give a knowledge of the governments of the leading countries of Europe.

Topics: 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.

Purpose: To give a knowledge of the development and influence of political parties in the United States.

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

Political Science 344. Kentucky Government. Two hours.

Prerequisites: Political Science 241 and 242.

Purpose: To explain the development of the government of Kentucky with emphasis on present-day problems.

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

Political Science 350. Early Political Theory. Three hours.

Prerequisites: Political Science 241, and History 131.

Purpose: To examine the early concepts of government and to trace the development of the thinking concerning the purposes of government and the forms and institutions of government best suited to achieve those purposes.

Topics: Early political institutions and ideas; Greek and Roman contributions to the theory and practice of government; the development of church and state relationships; the nature and authority of law; the transition from the city state to the national state.

Political Science 351. Recent Political Theory. Three hours.

Prerequisites: Political Science 241, and History 132.

Purpose: To develop an understanding of the principal schools of political thought and to show how the various theories have influenced the growth of the leading contemporary systems of government.

Topics: The theory of the national state; absolutism and the theory of divine right; the concept of sovereignty; the right to resist and the theory of natural rights and natural law; the rise of radicalism; the 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.

Purpose: To give the student a knowledge of the precedents of our constitution, its framing, and its evolution

through 1875 with emphasis upon the part played by the Supreme Court.

Topics: 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; the Civil War and the judiciary; the rise of Big Business; the 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.

Purpose: To show the evolution of our constitution from 1875 to the present, with most of the emphasis being upon the interpretations of the Supreme Court in the various fields during that period.

Topics: 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.

Purpose: To study the principles and practices employed in administering the affairs of government.

Topics: 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.

Purpose: To study the relations between the principal

nations of the world as a basis for understanding and interpreting current world problems.

Topics: Foundations of international relations; the United States' foreign policy; geographic position; economic and strategic factors; instruments of policy; regional and world politics; pre-war Europe; Germany; France and Great Britain; Italy; Soviet Russia; smaller states; problem of European peace; China and the Far East; Japan; problem of peace in Asia; the United States and the world powers; the background of World War II; the Covenant of the League; Locarno; the Pact of Paris; the United Nations Organization and the problem of lasting peace.

Political Science 471. Seminar. One hour.

Purpose: To give the student an opportunity to familiarize himself with the literature of the field; to work with bibliographies in special fields, and to introduce the student to research.

This course is required of all political science majors in their senior year.

HOME ECONOMICS

Miss Bolin

Mrs. Rice

Miss Gibson

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, and 475	61

Additional requirements in other* fields:

Art 291 and 292	4
Biology 101, 317, and 332	11
Chemistry 111, 112, and 225	12
Economics 200	3
Education 154, 350, and 354	9
English 101, 102, 181, and 6 hours selected from English 200-299	15
History 241 and 242	6
Mathematics 101	3
Physical Education—activity courses	2
Physics 111	3
Sociology 170	3
Total for the degree	132

For a Major: (This program does not qualify for teaching in 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, 241	15
Elective in home economics approved by the depart- ment	6
Total for a Minor	21

SUGGESTED PROGRAM

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

Vocational Home Economics

FRESHMAN YEAR

First Semester		Second Semester	
Eng. 101—English Composition	3	Eng. 102—English Composition	3
P. E. 100—Orientation in		P. E. 100—Orientation in	
Phys. Ed.	½	Phys. Ed.	½
H. Ec. 101—Orientation in		H. Ec. 141—Clothing Design	
Home Economics	2	and Construction	3
H. Ec. 130—Nutrition and Food		Educ. 154—Educational	
Planning	3	Psychology	3
H. Ec. 140—Textiles	3	Art 291—Color and Design	2
Ec. 101—Int. to Biological		Phys. 111—Household Physics	3
Science	3	Soc. 170—Rural Sociology	3
Ec. 101—Business Arithmetic	3		
	17½		17½

SOPHOMORE YEAR

First Semester		Second Semester	
Eng. ———Sophomore literature	2	Eng. ———Sophomore literature	2
P. E. ———Activity course	½	P. E. ———Activity course	½
H. Ec. 231—Food Plan. and Meal Prep.	3	Eng. 281—Public Speaking	3
H. Ec. 241—Clothing Selection and Const.	2	Econ. 200—General Economics	3
Hist. 241—The U. S. 1492-1865	3	Hist. 242—The U. S. 1865-Present	3
Chem. 111—General Chemistry	4	Chem. 112—General Chemistry	4
H. Ec. 251—Household Equipment	3	Art 292—Costume Design	2
	<hr/>		<hr/>
	17½		17½

JUNIOR YEAR

First Semester		Second Semester	
Eng. ———Sophomore literature	2	Chem. 225—Organic Chemistry	4
H. Ec. 301—Consumer Problems	3	H. Ec. 303—Home Nursing and Family Health	3
H. Ec. 331—Adv. Meal Prep. and Tab. Service	3	H. Ec. 351—Housing	3
H. Ec. 341—Advanced Clothing	2	H. Ec. 355—Child Development	3
Biol. 332—Human Physiology	4	Educ. 354—Psychology of Adolescence	3
Educ. 350—Psychology of Childhood	3		
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	17		16

SENIOR YEAR

First Semester		Second Semester	
Biol. 317—Bacteriology	4	H. Ec. 451—Home Furnishings	3
H. Ec. 431—Advanced Nutrition	3	H. Ec. 454—Home Management	3
H. Ec. 452—Home Management Methods	2	H. Ec. 475—Student Teaching in Home Economics	8
H. Ec. 453—Social Problems of the Family	3		
H. Ec. 470—Methods of Teaching Vocational Home Economics	3		
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	15		14

DESCRIPTION OF COURSES

Home Economics 101. Orientation in Home Economics. Two hours.

Purpose: To help freshman students learn to live and work successfully in college and to make personal and group adjustments.

Topics: Emphasis is placed on good health and grooming; care and repair of clothing; and management of time. Guidance is given on personal problems, group living, and correct social usage.

Time: One lecture-discussion period and one two-hour laboratory per week. A short period of residence in the home management house will be arranged.

Home Economics 102. Nutrition for Elementary Teachers. Two hours.

Purpose: To give teachers in the elementary school a usable knowledge of nutrition so that they may be able to help establish good food habits in children; to prepare teachers for effective management of the school-lunch program.

Topics: Recognition of the symptoms of good and poor nutrition; basic food needs of the body; guides for planning adequate dietaries for children and adults; planning meals and dietaries; carrying on a school-lunch program; and ways to help children establish good food habits.

Time: One lecture-discussion period and one two-hour laboratory period per week.

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

Purpose: To help each student acquire a fundamental knowledge of practical nutrition and to gain experience in the planning and preparation of everyday foods.

Topics: 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.

Time: Two lecture-discussion periods and one two-hour laboratory period per week.

Home Economics 140. Textiles. Three hours.

Purpose: To study the construction and uses of textiles as applied to home furnishings and clothing.

Topics: 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 the identification of all fibers.

Time: One lecture-discussion period and two two-hour laboratory periods per week.

Home Economics 141. Clothing Design and Construction. Three hours

Prerequisites: Home Economics 140 and Art 291.

Purpose: To enable the student to select, construct, and to care for appropriate clothing.

Topics: Principles of clothing design; clothing budgets; the sewing machine and its attachments; the interpretation, selection and use of commercial patterns; problems of fitting; and clothing construction processes and problems; development of

techniques in the use of linen and cotton. All materials are furnished by the students.

Time: One lecture-discussion period and two two-hour laboratory periods per week.

Home Economics 190. Clothing Renovation and Construction. Two hours.

Purpose: To teach adults methods of clothing renovation and construction.

Topics: 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.

Time: Two two-hour laboratory periods per week.

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

Prerequisites: Home Economics 101 and 130.

Purpose: To help the student to acquire knowledge, skill, and technique in the preparation of everyday foods including service, planning and use of equipment.

Topics: Practical work in simple meal preparation including marketing and simple accounting.

Time: 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.

Purpose: To study problems involved in selection, consumption, construction and care of clothing for the family.

Topics: 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; the construction of one child's garment and one made-over project.

Time: One lecture-discussion period and one two-hour laboratory period per week.

Home Economics 242. Personal Clothing. Two hours.

Purpose: To study design principles and individuality as a basis for the selection of satisfactory clothing.

Topics: 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.

Time: One lecture-discussion period and one two-hour laboratory period per week.

Home Economics 251. Household Equipment. Three hours.

Prerequisite: Physics 111.

Purpose: To become familiar with the types of equipment used in modern homes.

Topics: Equipment lists; study and evaluation of available makes of each type of equipment; use, care, and simple repair of home equipment. Notebook, surveys, term report, and field trips.

Time: One lecture-discussion period and two two-hour laboratory periods per week.

Home Economics 280. Textile Decoration. Two hours.

Prerequisite: Art 121 or 291.

Purpose: To acquire skill in the decoration of textiles.

Topics: The course provides opportunity in making objects of art for personal use through the medium of textile painting and needlework; different media such as batik, tie and dye; block printing, stenciling, needlepoint and silk screen printing are employed; knitting, crocheting, tatting, rug making, embroidery, applique and other home crafts are stressed. Four or more individual problems are chosen and completed according to the needs and interests of students. One original design is selected and executed by each student. The course includes extensive reading and the collection of a detailed bibliography. Each student completes a comprehensive notebook and term paper.

Time: Two two-hour laboratory-discussion periods per week.

Home Economics 301. Consumer Problems. Three hours.

Prerequisite: Economics 200.

Purpose: To aid the student in becoming a more intelligent and interested buyer and consumer.

Topics: Selection of consumer goods and services; buying habits; legislation affecting branding, labeling and other industrial and economic problems that affect standards of living.

Time: Three lecture-discussion periods per week.

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

Prerequisites: Home Economics 130, Biology 101 and 332.

Purpose: To study the factors that influence general family health and simple nursing procedures used in treatment of the sick.

Topics: 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.

Time: 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.

Purpose: To provide actual practice and varied experiences in planning, preparing, and serving well-balanced, attractive and appetizing meals at different cost levels.

Topics: The planning, preparing and serving of breakfasts, luncheons, dinners, and banquets and other special occasions; marketing, budgeting, and accounting.

Time: One lecture-discussion period and two two-hour laboratory periods per week.

Home Economics 332. Quantity Cookery. Two hours.

Prerequisite: Home Economics 231.

Purpose: To give students experience in planning, buying, storing, and preparing food in large quantities.

Topics: Menu planning; amounts needed to serve groups of various sizes; food costs; use of equipment; food preparation in quantity; and food service. The 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.

Purpose: To develop an experimental approach to a study of principles underlying food preparation, and to acquire ease and skill in presenting food demonstrations.

Topics: 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.

Time: Three two-hour laboratory-discussion periods per week.

Home Economics 341. Advanced Clothing. Two hours.

Prerequisites: Home Economics 241 and Art 292.

Purpose: To enable the student to gain greater skill in the selection and construction of becoming, appropriate, and economical clothing of good taste; to apply the fundamental principles of design to dress for individuals.

Topics: 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; the application of different finishing techniques; creative work in draping in silk. Garments are constructed from original adaptive designs. All material is furnished by students.

Time: Two two-hour laboratory-discussion periods per week.

Home Economics 351. Housing. Three hours.

Prerequisite: Economics 200.

Purpose: To study the economical and sociological problems and modern trends in housing.

Topics: 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 notebook and term paper.

Time: Three lecture-discussion periods per week.

Home Economics 355. Child Development. Three hours.

Prerequisite: Education 350 is desirable.

Purpose: To develop an understanding of the fundamentals of growth, development, care, and guidance of the pre-school child.

Topics: 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; the influence of nature, art, music, literature, and drama on the child; directed experiences in observing and working with pre-school children.

Time: 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.

Purpose: To help the student develop a scientific appreciation and knowledge of food chemistry and its relation to human nutrition; and to study dietary problems related to disease and varied physiological conditions.

Topics: 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.

Time: Two lecture-discussion periods and one two-hour laboratory period per week.

Home Economics 441. Tailoring. Two hours.

Prerequisite: Home Economics 341.

Purpose: To apply principles of tailoring to the construction of wool and synthetic wool garments.

Topics: 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.

Time: 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.

Purpose: To study the interior of the house as a satisfactory background for the family.

Topics: Principles of design and their application to the proper treatment of interiors and the selection of furniture, furnishings, and accessories; the proper treatment of walls, floors, and windows. Lectures, discussions, reports, comprehensive notebook, term paper, field trips, and practical problems.

Time: Two lecture-discussion periods and one two-hour laboratory period per week.

Home Economics 452. Home Management Methods. Two hours.

Prerequisite: Home Economics 301.

Purpose: To become familiar with housekeeping methods and management problems of the house.

Topics: Cleaning methods and materials including home laundering; household accounts and expenditures; care and repair of household equipment; work simplification. This course is designed to make housekeeping easier and more effective by the use of proper techniques.

Home Economics 453. Social Problems of the Family. Three hours.

Purpose: To study balanced family relationships with a background of parenthood education, child training, and social thinking.

Topics: 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; and 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, 431, and 452 (or parallel).

Purpose: To study the management problems of the home and the social and cultural advantages in good family living.

Topics: The management of money, materials, effort, and time; consumer buying; household accounts; leisure and good family relationships. Arrangements for living in the Home Management House must be made with the Head of the Home Economics 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.

Purpose: To become familiar with present-day methods of teaching home economics.

Topics: Legislation leading to the development of the vocational program; history of home economics; purpose of education in a democracy and the contribution home economics makes to this purpose; types of work included in the present-day program with emphasis on the day-school program; understanding the needs and interests of students of high school age and the homes from which they come; objectives for courses of study to meet the needs of various groups; planning units; planning lessons; selection of reference and illustrative material; evaluation; home projects; working with elementary teachers; study of the community and participation in its activities.

Home Economics 475. Student Teaching in Home Economics. Eight hours.

Prerequisite: Home Economics 470. Permission of Director of Training School.

Purpose: Application of methods in teaching vocational

home economics and experience in dealing with problems of a home economics teacher in the school and community.

Topics: Each student in this course is required to teach a minimum of ninety class meetings of sixty minutes each, planning and teaching units in a minimum of three phases of the work, becoming familiar with management problems, records and department planning. In addition to the day-school experience, opportunity is given for planning and teaching lessons for adult, and part-time classes for working with the community cannery and with other civic agencies and activities. All student teachers in this course meet in regular class twice each week and in individual conferences daily. Student teachers are required to visit pupils in their homes and to supervise home projects.

INDUSTRIAL ARTS

Mr. Mays

Mr. Black

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:

	Sem. Hrs.
<i>For a Major:</i>	
Industrial Arts 103, 110, 111, 203, 210, 211, 283, 304, 311, 386 and 471	29
Additional requirements in related fields:	
Art 101 and 341	4
Mathematics 101	3
Physical Science 101 and 102	6
<i>For a Minor:</i>	
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 the First Major in Industrial Arts

FRESHMAN YEAR

First Semester	3	Second Semester	3
Eng. 101—English Composition	3	Eng. 102—English Composition	3
P. E. 100—Orientation in Phys. Ed.	½	P. E. 100—Orientation in Phys. Ed.	½
I. A. 103—Elem. Mechanical Drawing	3	I. A. 203—Adv. Mechanical Drawing	3
Hist. 131—History of Civilization	3	Hist. 132—History of Civilization	3
*Biol. 101—Int. to Biological Science	3	*Biol. 102—Int. to Biological Science	3
Math. 101—Business Arithmetic	3	Art 101—Drawing	2
		P. E. 104—Personal Hygiene	2
	15½		16½

SOPHOMORE YEAR

First Semester	2	Second Semester	2
Eng. ———Sophomore literature	2	Eng. ———Sophomore literature	2
P. E. ———Activity course	½	P. E. ———Activity course	½
I. A. 111—General Woodwork	3	I. A. 211—General Woodwork	3
P. E. 235—Community Recreation	2	I. A. 110—Elementary Woodturning	2
*Ph. Sc. 101—Int. to the Physical Sciences	3	*Ph. Sc. 102—Int. to the Physical Sciences	3
†Econ. 200—General Economics	3	Educ. 154—Educational Psychology	3
Second Major	3	Second Major	3
	16½		16½

JUNIOR YEAR

First Semester	2	Second Semester	3
Eng. ———Sophomore literature	2	I. A. 304—Architectural Drawing	3
I. A. 283—Sheetmetal	3	Educ. 472—Fund. of Secondary Ed.	4
I. A. 210—Advanced Woodturning	2	Core Curriculum	3
Educ. 354—Psychology of Adolescence	3	Second Major	6
Core Curriculum	3		
Second Major	3		
	16		16

SENIOR YEAR

First Semester	3	Second Semester	2
I. A. 311—Des. and Const. of Furniture	3	I. A. 386—Metal Work	2
Educ. 375—Student Teaching	4	Educ. 475—Student Teaching	4
†Elective in social science	3	Art 341—Crafts I	2
Second Major	6	I. A. 471—Seminar	1
		Second Major	3
		Elective	2
	16		15

* If a subject in the sciences is selected as a Second Major, another course should be substituted at this point to meet Core Curriculum requirements.

† If a subject in the social sciences is selected as a Second Major, another course should be substituted at this point to meet Core Curriculum requirements.

DESCRIPTION OF COURSES

Industrial Arts 103. Elementary Mechanical Drawing. Three hours.

Purpose: To give a working knowledge of the subject in its various practical applications.

Topics: Use and care of drawing instruments and supplies; lettering; geometric constructions; orthographic projection; dimensioning; and sectioning.

Industrial Arts 110. Elementary Woodturning. Two hours.

Purpose: To give instruction in the care, use, and possibilities of the wood lathe.

Topics: Sharpening and use of turning tools; exercises in spindle, faceplate, and chuck turning.

Industrial Arts 111. General Woodwork. Three hours.

Purpose: To present the fundamental principles of woodworking and the use and care of common tools.

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

Industrial Arts 203. Advanced Mechanical Drawing. Three hours.

Prerequisite: Industrial Arts 103.

Purpose: To apply the principles of mechanical drawing in the solution of advanced problems involving construction materials and processes.

Topics: Problems in projections, intersections, revolutions, and developments.

Industrial Arts 210. Advanced Woodturning. Two hours.

Prerequisite: Industrial Arts 110.

Purpose: Continuation of Industrial Arts 110.

Topics: Turning furniture projects on the lathe; special attention given to design and finish.

Industrial Arts 211. General Woodwork. Three hours.

Prerequisite: Industrial Arts 111.

Purpose: Continuation of Industrial Arts 111.

Topics: Use and care of woodworking tools and machines; design and construction of small pieces of furniture.

Industrial Arts 219. Farm Shop. Three hours. (Formerly Industrial Arts 319.)

Purpose: To give training in general farm repair work.

Topics: 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.

Purpose: To give instruction in the use of various types of sheetmetal.

Topics: 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.

Purpose: To present the basic principles of architectural drawing.

Topics: 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.

Purpose: To give advanced instruction in furniture construction and design.

Topics: 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.

Purpose: To give the prospective home owner a general study of building materials.

Topics: Planning of small homes (non-technical); building materials and fixtures.

Industrial Arts 383. Art Metal Work. Three hours.

Purpose: To give instruction about various metals used in art metal work; care and use of tools.

Topics: The work is planned to require a minimum of equipment in developing projects in copper, brass, pewter, etc.

Industrial Arts 386. Metalwork. Three hours.

Purpose: To learn the simple operations performed by the general machinist.

Topics: Practicing in forging, tempering, laying out, centering, turning, shaping, drilling, chipping, grinding, filing, and polishing.

Industrial Arts 460. History of Industrial Arts. Three hours.

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

Industrial Arts 471. Seminar. One hour.

Required course in the senior year for industrial arts majors who expect to receive a teacher's certificate. The course is designed to give students an opportunity to become familiar with the literature in the field of industrial arts, teaching aids, and opportunities, together with significant trends and contributions.

Topics: 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.

Purpose: A general survey of the field of vocational education.

Topics: 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.

Purpose: To acquaint the student with the different methods of presenting this subject in the public schools.

Topics: 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 Bishop

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.

DESCRIPTION OF COURSES

Library Science 291. Library Organization and Administration. Two hours.

Purpose: To develop an understanding of the basic principles involved in the organization and administration of the school library.

Topics: Integration of library services with the total school program; circulation routines; use of student staff; publicity; care of pamphlets, clippings, pictures, etc.; other practical problems.

Library Science 311. Cataloging and Classification. Two hours.

Purpose: To provide understanding and practice in the cataloging and classification of library materials.

Topics: The Dewey Decimal Classification; principles and methods of simple cataloging, including subject headings needed by school librarians.

Laboratory hours to be arranged.

Library Science 321. Book Selection. Two hours.

Purpose: To develop familiarity with the tools of book selection and the principles involved in selecting books for the school library.

Topics: Book selection aids; books of varying interests for children, adolescents, and adults.

Library Science 411. References and Bibliography. Two hours.

Purpose: To teach the use of basic reference books.

Topics: General reference books and bibliographies as well as those in certain subject fields will be studied.

Library Science 490. Library Science for Administrators.
Two hours.

Purpose: To acquaint principals and supervisors with the work and problems of the library so that they may help the library to be a functioning part of the school system.

Topics: A general survey of all phases of library work, but not sufficiently detailed for a librarian.

MODERN FOREIGN LANGUAGES

Mr. Witt

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
 <i>For a Minor in French:</i>	
French 101, 102, 201, 202, and 306	15
One advanced course in French Literature	4
Total for a Minor in French	19
 <i>For a Minor in German:</i>	
German 101, 102, 201, 202, 306, and 433	19

DESCRIPTION OF COURSES

FRENCH

French 101. Beginning French. Three hours.

Purpose: An introduction to elementary French.

Topics: 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.

Purpose: The improvement of the student's ability to understand, speak, and read the language and to provide contacts with phases of French history, life, and culture. Independent effort on the part of students is encouraged.

Topics: 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.

Purpose: 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.

Purpose: The development of good reading ability and some appreciation of the literature.

Topics: 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.

Purpose: To acquaint students with French classicism.

Topics: Influences on the literature of the period, especially those of the Italian Renaissance and the 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.

Purpose: To acquaint students with the French literature of the epoch and the movement of the Enlightenment.

Topics: 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.

Purpose: To acquaint students with the literary movements and representative writings of the century. In order to cover more material, some works are read in English translations.

Topics: Novels, dramas, and poems by outstanding writers.

French 435. Modern French Writers. Four hours.

Prerequisites: The same as those listed for French 432.

Purpose: To acquaint students with recent French literature.

Topics: Selected works by Brieux, Hervieux, France, Materlink, Rostand, Rolland, Gide, Proust, Estaunie, Regnier, and others.

SPANISH

Spanish 101. Beginning Spanish. Three hours.

Purpose: To introduce the student to the elements of Spanish.

Topics: 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.

Purpose: Improvement of the student's ability to read, understand, and speak easy to average Spanish.

Topics: 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.

Purpose: To introduce the student to the elements of German.

Topics: Essentials of grammar; drill in pronunciation; conversation; easy reading; the geography of Germany; views of life in Germany.

German 102. Beginning German. Three hours.

This course is a continuation of German 101.

German 201. Intermediate German. Three hours.

Purpose: Improvement of the student's ability to read, understand, and speak the language.

Topics: Reading of easy prose; conversation; reports on articles dealing with Germany found in current magazines.

German 202. Intermediate German. Three hours.

This course is a continuation of German 201.

German 305. German Conversation and Composition. Three hours.

Purpose: To help students to develop the ability of speaking and writing simple German.

German 306. Rapid Reading. Four hours.

Purpose: Development of the student's ability to read the language.

Topics: Writings of the 19th and 20th centuries; introduction to scientific German.

German 433. German Literature after 1750. Four hours.

Purpose: To acquaint students with the movements and

some of the representative works of modern German literature. Some of the reading will be in translation in order to cover more material.

Topics: Works and extracts from classic, romantic, and realistic writers; German drama at the close of the 19th and the beginning of the 20th century.

MUSIC

Mr. George
Miss Greim

Mr. Thoman

Miss Carpenter
Mr. Huffman

OBJECTIVES:

1. To meet the requirements of students desiring technical training and a cultural background in music. (Students who wish to study music, but who are not interested in being music teachers should follow the programs outlined for "non-teaching majors" or "non-teaching minors.")
2. To develop the technical skills and the theoretical, historical, and appreciative backgrounds of those students who wish to teach music to the highest degree possible within the time available. (Students who wish to teach music should follow one of the programs outlined under the following headings: Area Major for Public School Music Teachers, Teaching Major, or Teaching Minor.)
3. To present effectively those courses required for certification.
4. To provide opportunities for participation in one of the major leisure-time activities on an elective basis.

REQUIREMENTS:

For a Teaching Major: (This program of study is intended to give the student a well-rounded background in preparation for a position in the field of music education in the public schools.)

Practical Music	Sem. Hrs.
Voice	1
Strings	1
Piano (See piano requirements for music majors)	4
Woodwind	1
Brasswind	1
Percussion	1
Chorus	3
Band or Orchestra	2

	Sem. Hrs.
Theory of Music	
Sight Singing and Ear Training	8
Harmony	6
Instrumentation	2
Music Education	
Materials and Methods 325, 375, or 376	3
Conducting	2
Music History and Appreciation	3
Total for a Teaching Major	38
<i>For a Non-Teaching Major: (This course of study is not recommended for the student who expects to teach music.)</i>	
Practical Music	
Piano	2
Elective in Practical Music	2-6
Theory of Music	
Sight Singing and Ear Training	6
Harmony	6
Elective in Theory of Music	0-4
Music History and Appreciation	
History and Appreciation	3
Elective in Music History and Appreciation	0-8
Total for a Non-Teaching Major	24
<i>For a Teaching Minor:</i>	
Practical Music	
Voice	1
Piano	2
Woodwind	1
Brasswind	1
Chorus	1
Band or Orchestra	1
Theory of Music	
Sight Singing and Ear Training	4
Harmony	3
Music Education	
Materials and Methods 325, 375, or 376	3
Conducting	2
Music History and Appreciation	3
Total for a Teaching Minor	22
<i>For a Non-Teaching Minor:</i>	
Practical Music	
Piano	2
Elective	4-6

	Sem. Hrs.
Theory of Music	
Sight Singing and Ear Training	4
Harmony	3
Elective in Theory of Music	0-7
Music History and Appreciation	
History and Appreciation (Music 362)	3
Elective in Music History and Appreciation	0-5
Total for a Non-Teaching Minor	18

For the Area of Concentration in Music: (This is the program best suited for the preparation of those who expect to teach music exclusively.)

Practical Music	
Voice	2
Strings	1
Piano (See piano requirements for music majors)	4
Woodwind	1
Brasswind	1
Percussion	1
Chorus	4
Band or Orchestra	4
Elective in Practical Music	8
Theory of Music	
Sight Singing and Ear Training	8
Harmony	6
Counterpoint and Form and Analysis	3
Instrumentation	2
Music Education	
Materials and Methods 325, 375, or 376	6
Conducting	2
History and Appreciation	6
Seminar	1
Total for the Area of Concentration	60

SUGGESTED PROGRAMS

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

Area of Concentration in Music Education

FRESHMAN YEAR

First Semester		Second Semester	
Eng. 101—English Composition	3	Eng. 102—English Composition	3
P. E. 100—Orientation in Phys. Ed.	$\frac{1}{2}$	P. E. 100—Orientation in Phys. Ed.	$\frac{1}{2}$
Mus. 117—Piano	2	Mus. 118—Piano	2
Mus. 131—Sight Singing	2	Mus. 132—Sight Singing	2
Biol. 101—Int. to Biological Science	3	Biol. 102—Int. to Biological Science	3
Hist. 131—History of Civilization	3	Hist. 132—History of Civilization	3
P. E. 104—Personal Hygiene	2	Practical Music	1
Band or Practical Music	1	Band or Practical Music	1
Chorus	1	Chorus	1
	<hr/>		<hr/>
	17 $\frac{1}{2}$		16 $\frac{1}{2}$

SOPHOMORE YEAR

First Semester		Second Semester	
Eng. ————Sophomore literature	2	Eng. ————Sophomore literature	2
P. E. ————Activity course	$\frac{1}{2}$	P. E. ————Activity course	$\frac{1}{2}$
Mus. 211—Voice	1	Mus. 212—Voice	1
Mus. 231—Sight Singing	2	Mus. 232—Sight Singing	2
Mus. 341—Harmony	3	Mus. 342—Harmony	2
Ph. Sc. 101—Int. to the Physical Sciences	3	Mus. 215—Strings	1
Educ. 154—Educational Psychology	3	Ph. Sc. 102—Int. to the Physical Sciences	3
Band and Practical Music	2	P. E. 285—Community Recreation	2
Chorus	1	Band	1
	<hr/>	Chorus	1
	17 $\frac{1}{2}$		<hr/>
			16 $\frac{1}{2}$

JUNIOR YEAR

First Semester		Second Semester	
Eng. ————Sophomore literature	2	Mus. 444—Instrumentation	2
Mus. 443—Counterpoint and Form and Anal.		or	
or		Mus. 362—History and Appreciation	3
Mus. 361—History and Appreciation	3	Mus. 355—Brasswind	1
Mus. 351—Woodwind	1	Mus. 325—Materials and Methods (Elem.)	
Mus. 375—Materials and Methods (Sec.)	3	or	
Educ. 354—Psychology of Adolescence	3	Mus. 376—Materials and Methods (Instr.)	3
Social Science	3	Educ. 472—Fund. of Secondary Education	4
Practical Music	2	Social Science	3
Band or Orchestra	1	Practical Music	3
	<hr/>	Band or Orchestra	1
	18		<hr/>
			17 or 18

SENIOR YEAR

First Semester		Second Semester	
Mus. 457—Percussion	1	Mus. 471—Conducting	2
Mus. 362—History and Appreciation	3	Mus. 362—History of Appreciation	3
or		or	
Mus. 443—Counterpoint and Form and Anal.		Mus. 444—Instrumentation	2
Mus. 475—Seminar	1	Educ. 475—Student Teaching	4
Educ. 375—Student Teaching	4	Foreign Language	3
Foreign Language	3	Band or Orchestra	1
Band or Orchestra	1	Practical Music	3
Practical Music	3		<hr/>
	<hr/>		15 or 16
	16		

Provisional High School Certificate with the First Major in Music Education

FRESHMAN YEAR

First Semester		Second Semester	
Eng. 101—English Composition	3	Eng. 102—English Composition	3
P. E. 100—Orientation in Phys. Ed.	1/2	P. E. 100—Orientation in Phys. Ed.	1/2
Mus. 117—Piano	2	Mus. 118—Piano	2
Mus. 131—Sight Singing	2	Mus. 132—Sight Singing	2
Biol. 101—Int. to Biological Science	3	Biol. 102—Int. to Biological Science	3
Hist. 131—History of Civilization	3	Hist. 132—History of Civilization	3
P. E. 104—Personal Hygiene	2	Educ. 154—Educational Psychology	3
Band or Practical Music	1	Chorus	1
Chorus	1		
	<u>17 1/2</u>		<u>17 1/2</u>

SOPHOMORE YEAR

First Semester		Second Semester	
Eng. —Sophomore literature	2	Eng. —Sophomore literature	2
P. E. —Activity course	1/2	P. E. —Activity course	1/2
Mus. 211—Voice	1	Mus. 215—Strings	1
Mus. 231—Sight Singing	2	Mus. 232—Sight Singing	2
Mus. 341—Harmony	3	Mus. 342—Harmony	3
Ph. Sc. 101—Int. to the Physical Sciences	3	Ph. Sc. 102—Int. to the Physical Sciences	3
P. E. 285—Community Recreation	2	Second Major	3
Band or Practical Music	1	Practical Music	2
Practical Music	1		
Chorus	1		
	<u>16 1/2</u>		<u>16 1/2</u>

JUNIOR YEAR

First Semester		Second Semester	
Eng. —Sophomore literature	2	Mus. 355—Brasswind	1
Mus. 351—Woodwind	1	Mus. 362—History and Appreciation	3
Mus. 375—Methods and Materials (Sec.)	3	or	
Educ. 354—Psychology of Adolescence	3	Mus. 444—Instrumentation	2
Social Science	3	Mus. 471—Conducting	2
Second Major	3	Educ. 472—Fund. of Secondary Education	4
Practical Music	2	Second Major	6
Band or Orchestra	1	Practical Music	1
	1	Band or Orchestra	1
	<u>18</u>		<u>17 or 18</u>

SENIOR YEAR

First Semester		Second Semester	
Mus. 457—Percussion	1	Mus. 444—Instrumentation	2
Educ. 375—Student Teaching	4	or	
Foreign Language	3	Mus. 362—History and Appreciation	3
Social Science	3	Educ. 475—Student Teaching	4
Second Major	6	Foreign Language	3
Practical Music	1	Second Major	6
	1	Practical Music	1
	<u>18</u>		<u>16 or 17</u>

DESCRIPTION OF COURSES

PRACTICAL MUSIC

Note.—The following course numbers indicate class lessons. Private instruction, for qualified pupils, is indicated by the same course numbers followed by "A" and the fee is \$15.00 per semester for one hour each week with a faculty member or \$7.50 per semester for one hour each week with a student assistant. Either private or class lessons are acceptable toward a major or minor.

For students desiring the use of a college practice piano, a limited number are available at no additional fee. A number of

band and orchestral instruments are owned by the college and are available to students for training purposes.

Piano requirements for music majors:

Students whose major instrument is not piano must have completed satisfactorily a minimum of four semester hours of piano and must pass successfully an examination before an examining committee named by the Music Department.

The examination material will be selections chosen from the following:

1. Czerny Studies, Volume I, Part II (Germer)
Burgmuler Studies, Book II, Op. 100
Heller Studies, Op. 125
2. Piano selections memorized of approximately third grade difficulty.
3. Sight-reading of 4-part hymns and simple vocal or instrumental accompaniments.

Students taking the Area Major in Music Education are urged to complete one major and two minors in the field of practical music. Completion of a practical music major or minor will be determined by consultation with the music faculty. Students are required to own their major instruments except in the case of piano, organ, or the bass instruments of the band or orchestra.

In applied music and in ensemble a digit indicating the classification of the student will precede the following numbers.

Music 11, 12. Voice. One hour each.

Prerequisite: Music 231.

Presentation of fundamentals of voice placement, breathing, diction, and interpretation. One hour in recitation, and three hours of outside preparation and participation in ensemble are required.

Music 14, 15. Stringed Instruments. One hour each.

Presentation of fundamental techniques of playing the violin and other stringed instruments of the viol family. Two half-hour lessons per week, three hours of outside preparation and participation in ensemble or orchestra are required.

Music 117, 118. Piano. Two hours each.

Instruction in the fundamentals of piano playing, music notation, and reading and a beginning in the development of interpretation and technique. Two fifty-minute periods and six hours of practice per week are required. Freshman students who are qualified may receive private instruction on a basis of two one-half hour lessons and six hours of practice per week.

Music 217, 218, 317, 318, 417, 418. Piano. Two hours each.

Early intermediate to advanced work in technique and interpretation. Private or class instruction, depending on the student's previous preparation. (See Music 117 above for lesson and practice requirements.)

Music 51, 52. Woodwind Instruments. One hour each.

Instruction in clarinet, flute, oboe, or bassoon. Two one-half hour lessons per week, three hours of outside preparation, and rehearsals designated by the instructor are required.

Music 54, 55. Brass Instruments. One hour each.

Instruction in cornet, horn, trombone, baritone, or bass. Two one-half hour lessons per week, three hours of outside preparation and rehearsals designated by the instructors are required.

Music 57, 58. Percussion Instruments. One hour each.

Instruction in snare drum with additional instruction on the other percussion instruments toward the end of the first semester. Two one-half hour lessons per week, three hours of outside preparation, and rehearsals designated by the instructor are required.

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."

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. Sight Singing and Ear Training I. Two hours.

A course in sight singing—including some part singing, theory, and melodic ear training. Emphasis is given to the method of presenting new material. Required for a major or minor. Offered during the Fall semester.

Three periods per week.

Music 132. Sight Singing and Ear Training II. Two hours.

Continuation of Music 131. Prerequisite: Music 131. Required for a major or minor. Offered during the Spring semester.

Three periods per week.

Music 231. Sight Singing and Ear Training III. Two hours.

A continuation of Music 132 which is a prerequisite. Required for a major. Offered during the Fall semester.

Three periods per week.

Music 232. Sight Singing and Ear Training IV. Two hours.

A continuation of Music 231, which is a prerequisite. Required for a major. Offered during the Spring semester.

Three 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.

Required for a major or minor. Offered during the Fall semester.

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 nondominant harmonies, sequences, altered, and mixed chords.

Required for a major. Offered during the Spring semester.

Music 443. Counterpoint and Form and Analysis. Three hours.

Prerequisites: Music 331; Music 342.

Elementary counterpoint in two and three parts with analysis of simple contrapuntal designs.

Study of the elements of form; analysis of Song Forms, Variation Forms, Rondos, Sonatas, Fugues, and other instrumental forms.

Required for a major. Offered during the Fall semester.

Music 444. Instrumentation. Two 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 Spring semester.

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. Fall semester.

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. Spring semester.

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 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.

Purpose: 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.

Topics: 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 361. History and Appreciation 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 and Appreciation of Music. Three hours.

Prerequisite: Music 361.

Nineteenth century music, Beethoven, the Romantic School, opera, the Impressionists, nationalistic tendencies, and contemporary composers. Spring semester.

Music 377. Instrumental Repair and Maintenance. Two hours.

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

Time: Four hours per week.

SCIENCE AND MATHEMATICS

Mr. West

Mr. Ballou

Mr. Fair

Mr. Reed

Mr. Stoops

Mr. Overstreet

SCIENCE FOR GENERAL EDUCATION

(The 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.)

Biology 101. Introduction to Biological Science. Three hours.

Purpose: To survey plant and animal life, with special emphasis on local forms, and to develop an understanding of the fundamental biological principles and procedures. The course also deals with identification, habits, habitat, and adjustments of animal and plant forms and with methods of collecting and preserving.

Topics: The history of biology; classification of animal and plant life; protoplasm and cellular structure of animals; the simpler forms of plant life; and reproduction in higher animals and plants.

Time: Two lecture-discussion periods and one two-hour laboratory period per week.

Biology 102. Introduction to Biological Science. Three hours.

Prerequisite: None. Biology 101 desirable.

Purpose: Same as Biology 101.

Topics: Structure, function, and life cycle of mosses, ferns, and seed plants; seeds and seedlings; the vertebrate animals; genetics; and conservation.

Time: Two lecture-discussion periods and one two-hour laboratory period per week.

Physical Science 101. Introduction to the Physical Sciences. Three hours.

(Students who have had either physics or chemistry in high school should not enroll for this course or Physical Science 102.)

Purpose: To help the student develop a useful scientific vocabulary; to present some of the methods and thought processes which have led to the discovery and use of the laws of nature; and to provide a fund of knowledge that will form a basis for appreciation of the scientific world of today.

Topics: The sun and its family; stars and galaxies; force, motion, heat, and energy; the structure of matter; the 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.

Physical Science 102. Introduction to the Physical Sciences. Three hours.

Purpose: Same as Physical Science 102.

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

ASTRONOMY

Astronomy 250. Descriptive Astronomy. Two hours.

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

Purpose: To acquaint the student with the more commonly known facts of the physical universe; with the instruments and methods employed to discover these facts; and with the more prominent men who made the original discoveries and measurements.

Topics: 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.

Purpose: To give the student a more adequate understanding of the subject of astronomy by the solution of typical problems.

Topics: 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, 213, 215, 216, and seven hours elective in advanced biology	21
Chemistry 111, 112, and 221	12
Geology 100	3
Physics 131, 132, and six hours elective in advanced physics	14
English 101, 102, and six hours of sophomore literature	12
Education 154, 354, 472, 375, and 475	18
Physical Education 104, 285, and two hours in activity courses	6
Core Curriculum	
Mathematics 141, 151, 152, 171, and 261	14

Social Science—Elective	12
Third field	6
Elective	10
Total for the degree	128
<i>For a Major:</i>	
Biology 210, 213, 215, 216, 471, and 472	18
Elective in advanced biology approved by the department	9
Total for a Major	27
<i>For a Minor:</i>	
Biology 210, 213, 215, and 216	14
Elective in advanced biology approved by the department	6
Total for a Minor	20

DESCRIPTION OF COURSES

Biology 203. Nature Study. Three hours.

Purpose: To acquaint the prospective elementary teacher with the more common plants and animals of this region, and the more evident phenomena of nature about which children in the elementary grades are likely to inquire.

Topics: 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.

Time: One lecture-discussion and four laboratory hours per week.

Biology 210. General Zoology. Four hours.

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

Purpose: To acquaint the student with the cultural and practical values of zoology and to provide pre-professional training for those who plan to teach biology or enter schools of agriculture, medicine, dentistry, or medical technology.

Topics: 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.

Time: Two lecture-discussion and two two-hour laboratory periods per week.

Biology 213. Comparative Vertebrate Anatomy. Four hours.

Prerequisite: Biology 102 or 210.

Purpose: To lay the foundations for understanding human anatomy. Recommended for students of agriculture, pre-medicine, pre-dentistry, physical education, and teachers of biology.

Topics: Comparative studies of the various organs and systems of vertebrate animals with particular emphasis on the dogfish shark and the cat.

Time: Two lecture-discussion and two two-hour laboratory periods per week.

Biology 215. General Botany. Three hours.

Purpose: To give the student an appreciation of the scientific approach to the solution of problems and an appreciation of the economic and aesthetic importance of plants.

Topics: Plant behavior and growth; structure and physiology of roots, stems, leaves, flowers, and fruits.

Time: Two lecture-discussion and two laboratory hours per week.

Biology 216. General Botany. Three hours.

Purpose: Continuation of Biology 215.

Topics: General survey of the plant kingdom; development, reproduction, and relationships of the Thallophytes, Bryophytes, Pteridophytes, and Spermatophytes.

Time: One lecture-discussion and four laboratory hours per week.

Biology 304. Genetics. Three hours.

Purpose: To acquaint the student with the laws of inheritance and their application to plant and animal breeding.

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

Time: Two lecture-discussion and two laboratory hours per week.

Biology 311. Eugenics. Three hours.

Purpose: To teach the relationship of sociology to biology, especially regarding the laws of marriage, and to give the student an understanding of the causes of the vast expenditure on penal and charitable institutions.

Topics: Differences among men; inheritance of human differences; natural selection; need for negative eugenics; eugenic aspect of marriage and divorce legislation; wars; religion; race amalgamation; and euthenic measures.

Time: Three lecture-discussion hours per week.

Biology 313. Economic Botany. Three hours.

Prerequisite: Biology 215.

Purpose: This course is planned for the student to learn the educational value of common facts about our economic plants useful and harmful to man.

Topics: 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.

Time: Two lecture-discussion and two laboratory-demonstration hours per week.

Biology 316. Dendrology. Two hours.

Prerequisite: Biology 215.

Purpose: To acquaint the student with the common trees and shrubs of eastern Kentucky; to emphasize the economic importance of trees; to teach the use of trees and shrubs in landscaping.

Topics: Types and arrangement of flowers, buds, leaves, and leaf scars; identification of trees and shrubs; texture of wood and its economic importance; and landscaping.

Time: One lecture-discussion and two laboratory hours per week.

Biology 317. Bacteriology. Four hours.

Purpose: To acquaint the student with the function of the bacteria and techniques used in studying them; and to give the pre-professional students in medicine, dentistry, home economics, and agriculture, a basis for their professional training.

Topics: Methods of identification and classification of

bacteria; morphology and distribution of microorganisms; cultivation, observation, methods of examination, and physiology of microorganisms; fermentation and decay; and health.

Time: Two lecture-discussion and four laboratory hours per week.

Biology 318. Spring Flora. Three hours.

Prerequisite: Biology 215.

Purpose: To develop the ability to use manuals for the classification of plants and to acquaint the student with the spring flowering plants of eastern Kentucky.

Topics: Types of flowers; structure and arrangement of flower parts; construction of keys; law of nomenclature; and classes, orders, and families of flowering plants.

Time: 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.

Purpose: To continue Biology 318 and to acquaint the student with the summer flowering plants of eastern Kentucky.

Time: 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.

Purpose: To acquaint the student with the function of the healthy human body in growth, maintenance, and reproduction; and to show variation of function in certain diseased conditions.

Topics: Protoplasmic organization; structure; circulation and function of blood; respiration; excretion; digestion;

metabolism and nutrition; endocrine system; nervous system; special senses; and reproduction.

Time: Five lecture-discussion hours per week.

Biology 333. Ornithology. Three hours.

Prerequisite: None.

Purpose: A course designed to give the student an appreciation of the economic and aesthetic value of the common birds of eastern Kentucky.

Topics: Classification and identification of birds; life histories; feeding habits; nesting habits; theories of migration; and economic importance.

Time: One lecture-discussion and four laboratory hours per week.

Biology 334. Entomology. Three hours.

Prerequisite: Biology 102 or 210.

Purpose: To acquaint the student with the use of keys; methods of classification; and economic importance of the insects common to this section.

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

Time: Two lecture-discussion and two laboratory hours per week.

Biology 336. Human Anatomy. Three hours.

Prerequisite: Biology 213.

Purpose: To give the physical education majors, and the pre-medical, pre-dental and pre-nursing students a knowledge of the general structure of the human body as a basis for their professional study.

Topics: Special emphasis is placed on internal anatomy; circulation; and muscular, skeletal, nervous and reproductive systems.

Time: Three lecture-discussion hours per week.

Biology 413. Plant Physiology. Three hours.

Prerequisite: Biology 215.

Purpose: To acquaint the student with the absorption

of minerals from the soil and their utilization by the plant, the manufacture of various types of foods, etc.

Topics: Osmosis; Plasmolysis; Photosynthesis; respiration; transpiration; fertilizers; soil elements and their uses; atmospheric elements and their functions; dormancy, etc.

Time: One lecture-discussion and four laboratory hours per week.

Biology 414. Plant Diseases. Three hours.

Prerequisites: Biology 215 and 216.

Purpose: To acquaint the student with the nature of plant diseases and to classify and study the life cycles of some of the more common causative organisms.

Topics: 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.

Time: One lecture-discussion and four laboratory hours per week.

Biology 432. Physiology of Exercise. Three hours.

Prerequisite: Biology 336.

Purpose: To develop an understanding of the fundamental causes for observed effects of exercise on respiration, circulation, muscle tone, etc.

Topics: 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.

Time: Three lecture-discussion periods per week.

Note.—This course is required of all physical education majors and minors. It does not count as an elective for biology majors or minors.

Biology 433. Field Vertebrate Zoology. Three hours.

Prerequisite: Biology 102 or 210.

Purpose: To give the student a survey of the fishes, amphibians, reptiles, and mammals of this section.

Topics: Methods of classifying the animals; laws of

nomenclature; use of keys; identification, habitats, and economic importance of the vertebrates of eastern Kentucky.

Time: One lecture-discussion and four laboratory hours per week.

Biology 434. Comparative Anatomy. Four hours.

Prerequisite: Biology 102 or 210.

Purpose: To acquaint the student with the comparative relationships of the various body parts of the vertebrates.

Topics: The digestive, circulatory, respiratory, excretory, reproductive, muscular, and skeletal systems of the classes of the vertebrates.

Time: Two lecture-discussion and four laboratory hours per week.

Biology 438. Vertebrate Embryology. Six hours.

Prerequisite: Biology 102 or 210.

Purpose: To acquaint the student with the changes that take place in the developing organisms from fertilization until the major systems have been formed.

Topics: Gamete formation; fertilization; cleavage, gastrulation; development of the nervous, digestive, excretory, circulatory, and respiratory systems; formation of the extra-embryonic membrane.

Time: Two lecture-discussion and eight laboratory hours per week.

Biology 471. Seminar. One hour per semester.

Prerequisites: Eighteen hours in biology and at least junior standing.

Purpose: To acquaint the student with methods of conducting and reporting research, checking the library for current literature on a given topic, and defending one's point of view before groups of scientists.

Topics: Selected topics of current importance in biological research. At least three semester hours in this course are required of all majors and minors.

Time: One lecture-discussion period per week.

Biology 474. Biological Techniques. Two hours.

Prerequisite: Fifteen hours in biology.

Purpose: To give the prospective biology worker and the teacher of biology a background of methods and devices used by the biologist; to present a working knowledge of the bibliography of biological techniques.

Topics: 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.

Time: Two lecture-discussion periods per week.

Biology 476. Special Problems. One to three hours.

Prerequisite: At least twenty hours in biology.

Purpose: 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.

Topics: The topic will be selected at the time of registration.

Time: The time will vary with the problem.

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, chemistry, and dentistry.

REQUIREMENTS:

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

	Sem. Hrs.
Chemistry 111, 112, 221, 222, 331, and 332	26
Biology 210, 213, 215, and 216	14
Geology 100	3
Physics 131, 132, and four hours elective in advanced physics	12
English 101, 102, and six hours of sophomore literature	12

Education 154, 354, 472, 375, and 475	18
Physical Education 104, 285, and two hours in activity courses	6
Core Curriculum	
Mathematics 141, 151, 152, 171, and 261	14
Social Science—elective	12
Third field	6
Elective	5
Total for the degree	128

<i>For a Major:</i>	Sem. Hrs.
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, 221, 222, 222a, 331, 332, and 471.....	26
B. For students who expect to do graduate work in chemistry or to qualify as professional chemists: Chemistry 111, 112, 221, 222, 222a, 331, 332, 441, 442, and 471	36
<i>For a Minor:</i> Chemistry 111, 112, 221, 222, 222a, and 225.....	20

DESCRIPTION OF COURSES

Chemistry 111. General Chemistry. Four hours.

Purpose: To acquaint the educated layman with the outstanding facts, theories and principles of chemistry, along with some important applications to daily life and industry; to prepare students for advanced courses in chemistry; to fulfill first requirements for students preparing to be nurses, doctors, dentists, engineers, home economists, and agriculturists.

Topics: The relation of chemistry to physics and derived sciences; atomic theory; non-metals, oxygen, hydrogen, etc.; periodic arrangement of elements; introduction to atomic chemistry.

Time: Two lecture-discussion and four laboratory hours per week.

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

Prerequisite: Chemistry 111, Mathematics 151 desired.

Purpose: Continuation of Chemistry 111.

Topics: 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 last month in the laboratory is devoted to an introduction to qualitative chemistry.

Time: Two lecture-discussion and four laboratory hours per week.

Chemistry 221. Qualitative Analysis. Four hours.

Purpose: To make a comprehensive study of the chemistry of the metals and the theory of qualitative analysis; to develop technique in the analysis of the metals using both standard and special reagents.

Topics: Methods of analysis; selection of a method; principles involved, systematic cation analysis—25 ions; detection of the anions—three groups; analysis of solids, metals, and alloys.

Time: One lecture-discussion and six laboratory hours per week.

Chemistry 222. Quantitative Analysis Laboratory. Three to five hours.

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

Purpose: To develop speed and accuracy in standard quantitative analytical techniques.

Topics: The number and types of analyses will depend upon the hours of credit and the field of the student's speciality.

Time: Two laboratory hours per week for each hour of credit.

Chemistry 222a. Quantitative Analytical Theory. One hour.

Prerequisites: A minimum of three hours of chemistry. Chemistry 222 must be taken at the same time.

Purpose: To teach the theory and procedures used in quantitative analysis and to develop a proficiency in the evaluation of data.

Topics: First nine weeks—principles of gravimetric analysis; second nine weeks—principles of volumetric analysis.

Chemistry 225. Organic Chemistry. Four hours. (Credit for this course will not be accepted on a major in chemistry.)

Prerequisites: Chemistry 111 and 112.

Purpose: 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.

Topics: Hydrocarbons, alcohols, ethers; carbohydrates, amines, drugs, etc.

Time: 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 221 and 222.

Purpose: To present an extensive survey of organic compounds and their derivatives.

Topics: Aliphatic compounds; alcohols, ethers, aldehydes, ketones, chain hydrocarbons, carbohydrates, fats, proteins.

Time: Three lecture-discussion and four laboratory hours per week.

Chemistry 332. Organic Chemistry. Five hours.

Prerequisite: Chemistry 331.

Purpose: Continuation of Chemistry 331.

Topics: Aromatic compounds; naphthenes; vitamins; dyes; biochemistry.

Time: Three lecture-discussion and four laboratory hours per week.

Chemistry 340. Introductory Chemistry of Foods. Three hours.

Prerequisites: Chemistry 111, 112, and 225.

Purpose: To apply fundamentals of chemistry to the choice and preparation of foods. The course is provided especially for students of home economics and pre-nursing, but may be taken by others.

Topics: 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.

Time: Two lecture-discussion and four laboratory hours per week.

Chemistry 441. Physical Chemistry. Four hours.

Prerequisites: Chemistry 221, 222, and 332; Mathematics 141, 152, and credit or registration for 261; Physics 132.

Purpose: To prepare the chemistry major to enter advanced courses and to conduct research involving more than introductory courses in the subject; to study and predict certain chemical processes with mathematical precision; to become adept in the mathematics of chemistry.

Topics: 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.

Time: Two lecture-discussion and four laboratory hours per week.

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

Prerequisites: Chemistry 441; credit or registration for Mathematics 262.

Purpose: Continuation of Chemistry 441.

Topics: Chemical kinetics; electrical studies; quantum theory and photo-chemistry; nuclear chemistry.

Time: Two lecture-discussion and four laboratory hours per week.

Chemistry 451. Physiological Chemistry. Three hours.

Prerequisites: Chemistry 111, 112, 231, and 332; also 221 and 222 are highly desirable.

Purpose: In the field of chemical theory to understand and to be able to work with principles and procedures concerned with physiological processes in man and the animals.

Topics: Qualitative and quantitative analysis of food; production of digestion enzymes; and 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.

Time: One hour per week.

Chemistry 476. Special Problems. One to three hours.

Prerequisite: At least twenty hours in chemistry.

Purpose: 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.

Topics: The topic will be selected at the time of registration.

Time: The time will vary with the problem.

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, 171, 261, and 262	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, 171, and 261	14
Other courses in mathematics prescribed by the department	6
Total for a Minor	20

DESCRIPTION OF COURSES**Mathematics 000. Elementary Mathematics. No credit.**

Prerequisite: Permission of the instructor.

Purpose: To prepare students who have not had an adequate background in arithmetic, algebra and geometry for college courses in mathematics and science.

Topics: Selected topics from arithmetic, high school algebra and geometry.

Time: Three hours per week.

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.)

Purpose: To give students a knowledge of the fundamental arithmetic ideas connected with business.

Topics: 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; and 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.

Purpose: To develop proficiency in the operation of a slide rule.

Topics: Multiplication; division; powers and roots; trigonometric functions; ratio and proportion; solution of triangles; and applications to physics and chemistry.

Mathematics 141. Plane Trigonometry. Three hours.

Prerequisites: One unit each of high school algebra and

plane geometry, or Mathematics 000. This course may be taken before, after, or simultaneously with College Algebra.

Purpose: To develop a working knowledge of the principles of trigonometry as applied to the solutions of plane triangles.

Topics: 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.

Purpose: To develop a working knowledge of the principles of trigonometry as applied to the solutions of spherical triangles.

Topics: 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, or Mathematics 000. This course may be taken before, after, or simultaneously with Plane Trigonometry.

Purpose: To review high school algebra; to study the simple algebraic processes; and to develop the idea of functional relationships.

Topics: 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.

Purpose: To continue the study of the algebraic processes. This course is a continuation of Mathematics 151.

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

Mathematics 171. Analytic Geometry. Three hours. (Formerly Mathematics 231.)

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

Purpose: To develop the relationship between algebra, geometry and trigonometry; and to study the construction and interpretation of graphs.

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

Mathematics 252. Mathematics of Finance. Three hours.

Prerequisite: Mathematics 152.

Purpose: To give the student a general knowledge of the fundamental mathematics connected with business.

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

Mathematics 261. Differential Calculus. Four hours. (Formerly Mathematics 361.)

Prerequisite: Mathematics 171.

Purpose: To teach the concept of limits; to study the variations of functions; to derive and apply the formulas for differentiation; and to begin the study of integrals.

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

Mathematics 262. Integral Calculus. Four hours. (Formerly Mathematics 362.)

Prerequisite: Mathematics 261.

Purpose: To teach the fundamental integration formulas and some of their applications.

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

Mathematics 341. Theory of Equations. Three hours.
(Formerly Mathematics 441.)

Prerequisite: Mathematics 171.

Purpose: To extend the ideas of algebra by solutions of various types of equations and systems of equations.

Topics: 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; and determinants.

Mathematics 353. Statistics. Three hours. (Formerly Mathematics 153.)

Prerequisite: Permission of the instructor.

Purpose: To develop a working knowledge of the statistical principles and practices in elementary statistical procedures.

Topics: Tabulation and graphical presentation of statistical data; interpretations of statistical results; averages; dispersions; index numbers; and simple correlations.

Mathematics 372. College Geometry. Three hours. (Formerly Mathematics 431.)

Prerequisite: Mathematics 171.

Purpose: To study problems in advanced plane geometry dealing with important extensions of the concepts of elementary plane geometry.

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

Mathematics 381. Series. Three hours. (Formerly Mathematics 481.)

Prerequisite: Mathematics 262.

Purpose: To develop a working knowledge of limits and series.

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

Mathematics 461. Advanced Calculus. Three hours.

Prerequisite: Mathematics 262.

Purpose: To extend the concepts of differential and integral calculus.

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

Mathematics 462. Differential Equations. Three hours.
(Formerly Mathematics 482.)

Prerequisite: Mathematics 262.

Purpose: To develop the principles and devices necessary for the solution of various types of differential equations which are commonly encountered.

Topics: 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.
(Formerly Mathematics 432.)

Prerequisite: Mathematics 171.

Purpose: To extend the ideas of projection and section by a study of the primitive forms and their relationships.

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

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

Prerequisites: Physics 131 and Mathematics 262.

Purpose: To develop skill in applying the techniques of mathematics to the problems of physics.

Topics: Elementary concepts; rectilinear and curvilinear motions of a particle; statics of a particle; statics of a rigid body; particle dynamics; dynamics of a rigid body; constrained motion; and oscillations.

Mathematics 485. Vector Analysis. Three hours.

Prerequisite: Mathematics 262.

Purpose: To develop the methods of operations with vectors.

Topics: Addition, subtraction and multiplication of vectors; differentiation and integration of vectors; kinematics and dynamics of a particle; and kinematics and dynamics of a rigid body.

PHYSICS

OBJECTIVES:

1. Physics 101 and 111 are intended to develop familiarity with the general ideas of physics and with the terminology used in physics literature so that the student can read popular works on subjects dealing with physics, geology, and astronomy with understanding and profit.
2. The freshman course in elementary physics, Physics 131 and 132, is devised to meet in a more adequate way the objectives stated for Physics 101 and 111. It is also intended to meet the needs of those students who expect to major in physics or mathematics and for those 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
Biology 210, 213, 215, and 216	14
Chemistry 111, 112, and 221	12
Geology 100	3
English 101, 102, and six hours of sophomore literature	12
Education 154, 354, 375, 472, and 475	18
Physical Education	6
Core Curriculum	
Mathematics 141, 151, 152, 171, and 261	14
Social Science—elective	12
Third field	6
Elective	9
Total for the degree	128

For a Major:

Physics 131, 132, 231, and 232	18
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	Sem. Hrs.
Elective in physics as approved by the department	6
Total for a Major	24
Students who are majoring in physics are also required to earn credit in Mathematics 141, 151, 152, 171, 261, and 262	18
It is also recommended that they earn credit in Mathematics 341 and 485 and Chemistry 111 and 112.	
<i>For a Minor:</i>	
Physics 131 and 132	8
Elective in physics as approved by the department	10
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

DESCRIPTION OF COURSES

Physics 111. Household Physics. Three hours.

Purpose: The course is designed especially for home economics students. All home economics students who have ability in mathematics or who have had high school physics are to take Physics 131 and 132 instead of this course.

Topics: The topics taken up in this course are the same as those taken up in Physics 131 and 132. Special attention is given to these topics as they are related to the problems of the home.

Classroom discussion, demonstration lectures, visual aids, textbook and problem assignments.

Physics 131. Elementary Physics. Four hours.

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

Purpose: To provide a more adequate survey of the field of physics than that offered by courses 101 and 111, to meet the standard requirements for the teaching of general science and physics in high schools and for entrance into dental and medical schools.

Topics: Mechanics; molecular physics; heat; wave motion and sound.

Time: 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.

Purpose: Continuation of Physics 131.

Topics: 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 261.

Purpose: To help the student master the techniques and develop the skills needed in reading the literature and solving the problems which confront the physicist.

Topics: Mechanics, heat, magnetostatics and electrostatics.

Time: 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.

Purpose: Continuation of Physics 231.

Topics: Electrostatic theory; electrodynamics; acoustics; optics; electromagnetic radiations.

Physics 301. Physical Manipulations. Two hours.

Purpose: To train the future teacher in the repair of apparatus and the construction of new apparatus for laboratory and demonstration so that he can have a better laboratory in the high school or can be better equipped for graduate work.

Topics: The course will consist of shop work and glass blowing, including the construction of special pieces of apparatus which can be used in the laboratory.

Physics 341. Introduction to Atomic Physics. Three hours.

Prerequisites: Physics 232 and Mathematics 262.

Purpose: To introduce the student to the field of modern physics to the end that he may gain an understanding of the fundamental transformations taking place at this time.

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

Physics 342. Nuclear Radiation. Three hours.

Prerequisite: Open only to junior and senior science students.

Purpose: To present a non-mathematical consideration of the advances in nuclear physics since 1940.

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

Physics 361. Fundamentals of Radio. Three hours.

Prerequisite: Physics 132.

Purpose: To acquaint the student with the theoretical and engineering problems of radio and to prepare him for the study of radio engineering.

Topics: 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.

Time: 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.

Purpose: 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.

Topics: Any of the topics studied in or suggested by the above course. 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 484. (Also Mathematics 484.) Theoretical Mechanics. Three hours.

Prerequisites: Physics 131, Mathematics 261.

Purpose: To develop skill in applying the techniques of mathematics to the problems of physics.

Topics: Elementary concepts; rectilinear and curvilinear motions of a particle; statics of a particle; statics of a rigid body; particle dynamics; dynamics of a rigid body; constrained motion; oscillations.

Three hours per week devoted to the discussion of reading and problem assignments.

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 work. **Since September 1, 1948, Morehead State College does not accept credit earned by correspondence.**

Class Periods. The class periods for an extension class are so arranged that the same amount of time is spent in class that is required when the course is taken in residence.

Eligibility. Students are admitted to extension classes provided they offer acceptable evidence of having the necessary qualifications for doing the work, and they must meet the same requirements as residence students.

Fees. The fee for extension class groups is \$100.00 for each semester hour of credit. The cost of a course offered by extension is apportioned equally among the persons 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 enrolled in an extension class. Fees for extension classes are paid to the college through the instructor. He is responsible for the collection.

Enrollment. The enrollment of all students in extension classes shall be completed as early as possible. Enrollments are not considered as complete and credit will not be granted until the student has paid the full amount of the fee.

Class Attendance. Class attendance in extension work is checked in the same manner that it is handled in residence courses.

Any person interested in work by extension should write to the Dean of the college.

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