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BULLETIN

Morehead
State Teachers College

Morehead, Kentucky



GENERAL CATALOG
1947-48

Volume 17

April, 1947

No. 1

BULLETIN
OF THE
Morehead
State Teachers College
Morehead, Kentucky

GENERAL CATALOG
1947-48

April, 1947

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COLLEGE CALENDAR, 1947-48

FALL QUARTER

September 25	Thursday	Freshman Orientation beginning at 10:00 A. M. (All freshmen are expected to be present for the entire orientation program)
September 26	Friday	Orientation program continues and Freshman registration
September 27	Saturday	Registration of upper classmen, 8:00 A. M. to 12:00 M.
September 29	Monday	Class work begins
September 30	Tuesday	Last day to register for full load
October 3	Friday	Last day to register for credit
October 20	Monday	Students who drop courses after this date will automatically receive marks of "E" in the courses dropped
November 6	Thursday	E. K. E. A. holiday begins at 12:00 M.
November 10	Monday	Class work resumed at 8:00 A. M.
November 27	Thursday	Thanksgiving holiday—one day only
December 19	Friday	Quarter closes at 4:00 P. M.

WINTER QUARTER

January 5	Monday	Registration of all students
January 6	Tuesday	Class work begins
January 7	Wednesday	Last day to register for full load
January 12	Monday	Last day to register for credit
January 23	Friday	Students who drop courses after this date will automatically receive marks of "E" in the courses dropped
March 19	Friday	Quarter closes at 4:00 P. M.

SPRING QUARTER

March 22	Monday	Registration of all students
March 23	Tuesday	Class work begins
March 24	Wednesday	Last day to register for full load
March 29	Monday	Last day to register for credit
April 8	Thursday	Scholarship Day
April 9	Friday	Students who drop courses after this date will automatically receive marks of "E" in the courses dropped
May 6	Thursday	Citizenship Day
May 30	Sunday	Baccalaureate sermon
June 3	Thursday	Commencement exercises
June 4	Friday	Quarter closes at 4:00 P. M.

MOREHEAD STATE TEACHERS COLLEGE

SUMMER QUARTER

June 9	Wednesday	Registration for first term
June 10	Thursday	Class work begins
June 11	Friday	Last day to register for full load
June 14	Monday	Last day to register for credit
July 5	Monday	Holiday (one day only)
July 16	Friday	First term closes at 4:00 P. M.
July 19	Monday	Registration for second term
July 20	Tuesday	Classes begin
July 21	Wednesday	Last day to register for full load
July 22	Thursday	Last day to register for credit
August 24	Tuesday	Commencement exercises
August 25	Wednesday	Quarter closes at 4:00 P. M.

OFFICERS OF ADMINISTRATION

WILLIAM JESSE BAIRD	President
WARREN C. LAPPIN	Dean
HERBERT HOGAN	Comptroller
CHILES VANANTWERP	Director of Training School
MARY PAGE MILTON	Registrar
LUCY GARDNER	Assistant Registrar
W. H. RICE	Superintendent of Buildings and Grounds
IONE CHAPMAN	Librarian
MARY MARGUERITE BISHOP	Assistant Librarian
MRS. DALE MILLER	Library Assistant
HARLAN BLAIR	Business Agent
MRS. ALLIE MANNING	Bookstore and Post Office
MRS. HARRY HUDGINS	Clerk, Registrar's Office
MRS. CHARLES SICKAFUS	Clerk, Dean's Office

PERSONNEL

W. B. JACKSON	Dean of Men
J. T. MAYS	Assistant Dean of Men
J. D. FALLS	Director of Extension
ILEE SMITH	Director of Cafeteria
MRS. JAMES ROBERTS	School Nurse
EMMETT BRADLEY	Director of Publicity
MRS. KATE B. HILL	House Mother, Fields Hall

SECRETARIES

ANNA B. CARTER	President's Office
MYRNA E. FREELAND	Dean's Office
MRS. VIVIAN YOUNG	Department of Buildings and Grounds
MRS. VIRGINIA V. CAUDILL	Comptroller's Office
NAOMI WALKER	Training School

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 Teachers College since 1946	
WARREN C. LAPPIN, A.B., A.M., Ed.D.....	Dean
A.B., Transylvania College, 1920	
A.M., University of Chicago, 1929	
Ed.D., Indiana University, 1941	
Morehead State Teachers College since 1926	
W. A. ALFORD, B.S., M.S.C.....	Assistant Professor
B.S., Kansas State Teachers College, 1932	
M.S.C., University of Denver, 1940	
Morehead State Teachers College since 1946	
ROSS C. ANDERSON, B.S., A.M.....	Assistant Professor
B.S., Eastern (Ky.) State Teachers College, 1933	
A.M., University of Kentucky, 1936	
Morehead State Teachers College since 1938	
EMMA O. BACH, A.M., Ph.D.....	Professor of
Sekundarlehrerpatent, University of Berne, 1909	
A.M., University of Nebraska, 1913	
Ph.D., The Johns Hopkins University, 1930.	
Morehead State Teachers College since 1932	
GABRIEL C. BANKS, A.B., B.D., A.M.....	Assistant Professor
A.B., Transylvania College, 1917	
B.D., College of the Bible, 1921	
A.M., Yale University, 1924	
Morehead State Teachers College since 1936	
ROGER BARBOUR, B.S., M.S.....	Instructor in
B.S., Morehead State Teachers College, 1938	
M.S., Cornell University, 1939	
Morehead State Teachers College since 1946	

- W. H. BILLHARTZ, B.S., M.S., M.Ed., Ph.D.....*Professor of*
 B.S., University of Pittsburgh, 1930 *Mathematics*
 M.S., University of Pittsburgh, 1934 *and Physics,*
 M.Ed., University of Pittsburgh, 1936 *Head of*
 Ph.D., University of Pittsburgh, 1938 *Department*
 Morehead State Teachers College since 1946
- MARGUERITE BISHOP, B.S., B.S. in Lib. Sci.....*Assistant*
 B.S., Morehead State Teachers College, 1935 *Librarian*
 B.S., Columbia University, 1940
 Morehead State Teachers College since 1930
- JAMES GILBERT BLACK, B.S., M.S.....*Instructor in*
 B.S., Morehead State Teachers College, 1942 *Industrial Arts*
 M.S., Stout Institute, 1947
 Morehead State Teachers College since 1947
- 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 Teachers College since 1932
- CATHERINE L. BRAUN, B.S.....*Assistant Professor*
 B.S., George Peabody College, 1926 *of Geography*
 Morehead State Teachers College since 1923
- ESTHER B. CALL, B.S., A.M.....*Assistant Professor*
 B.S., Texas State College for Women, 1919 *of Home*
 A.M., Columbia University, 1943 *Economics,*
 Morehead State Teachers College since 1943 *Head of*
Department
- 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 Teachers College since 1944 *Department*
- FLORENCE CARPENTER, A.B., M.S.....*Instructor in*
 A.B., Wellesley, 1922 *Music*
 M.S., Columbia University, 1928
 Morehead State Teachers College since 1946
- IONE CHAPMAN, A.B., A.M., B.S.
 in Library Science.....*Librarian*
 A.B., University of Illinois, 1925
 A.M., Columbia University, 1928
 B.S., University of Illinois, 1944
 Morehead State Teachers College since 1946

- DON P. CLAYPOOL, B.S.....*Instructor in*
 B.S., Tulane University, 1946 *Chemistry*
 Morehead State Teachers College since 1946
- NAOMI CLAYPOOL, A.B., A.M.....*Assistant Professor*
 A.B., University of Kentucky, 1930 *of Art, Head of*
 A.M., Teachers College, Columbia University, *Department*
 1932
 Morehead State Teachers College since 1925
- LAKE COOPER, A.B.....*Graduate*
 A.B., Morehead State Teachers College, 1945 *Assistant in*
 Morehead State Teachers College since 1946 *Mathematics*
- LORENE SPARKS DAY, A.B., A.M.....*Instructor in*
 A.B., Kentucky Wesleyan College, 1929 *Education,*
 A.M., Teachers College, Columbia University, *Supervising*
 1932 *Teacher in*
 Morehead State Teachers College since 1930 *Social Science*
- SAM J. DENNY, A.B., A.M.....*Instructor in*
 A.B., University of Kentucky, 1928 *Education,*
 A.M., University of Kentucky, 1932 *Supervising*
 Morehead State Teachers College since 1936 *Teacher in*
English
- J. FREDERICK DOERING, A.B., A.M., M.A., Ph.D.,
 LL.D., F.V.I., F.L.C.Th.....*Professor of*
 A.B., University of Western Ontario, 1933 *English, Head of*
 A.M., Duke University, 1935 *Department*
 M.A., University of Toronto, 1939
 Certificat d'etudes, University of Ottawa, 1944
 Ph.D., University of Ottawa, 1945
 LL.D., Bethany College, 1946
 F.V.I., Victoria Institute, 1946
 F.L.C.Th., London College of Theology, 1946
 Morehead State Teachers College since 1946
- SAM WITHERS ETTTELSON, A.B., A.M.....*Assistant Professor*
 A.B., Albright College, 1928 *of English*
 A.M., New York University, 1933
 Morehead State Teachers College since 1947
- THELMA EVANS, A.B., A.M.....*Assistant Professor*
 A.B., University of Kentucky, 1930 *of Education,*
 A.M., University of Kentucky, 1940 *Supervising*
 Morehead State Teachers College since 1943 *Teacher, First*
Grade
- LINUS A. FAIR, A.B., A.M.....*Assistant Professor*
 A.B., Arkansas State Teachers College, 1925 *of Mathematics*
 A.M., George Peabody College, 1930 *and Physics*
 Morehead State Teachers College since 1932

*JAMES DAVID FALLS, A.B., B.S., A.M., Ph.D.....	Associate
A.B., Ogden College, 1920	Professor of
B.S., George Peabody College, 1922	Education,
A.M., George Peabody College, 1923	Director of
Ph.D., George Peabody College, 1926	Extension
Morehead State Teachers College since 1934	
NEVILLE FINCELL, A.B., A.M.....	Assistant Professor
A.B., University of Kentucky, 1921	of Economics
A.M., University of Kentucky, 1932	
Morehead State Teachers College since 1930	
MARGARET KATHERINE FINDLEY, A.B., A.M.....	Assistant Professor
A.B., Wooster College, 1922	of Education,
A.M., University of Pittsburgh, 1931	Supervising
A.M., Columbia University, 1934	Teacher, Fourth
Morehead State Teachers College since 1936	Grade
NOLAN FOWLER, A.B., A.M.....	Assistant Professor
A.B., Marshall College, 1939	of History and
A.M., University of Kentucky, 1940	Government
Morehead State Teachers College since 1943	
MARVIN GEORGE, B.S., A.M.....	Assistant Professor
B.S., State College, Bowling Green, Ohio, 1930	of Music, Head
A.M., Teachers College, Columbia University, 1931	of Department
Morehead State Teachers College since 1931	
MILDRED GILES, A.B.....	Instructor in
A.B., Morehead State Teachers College, 1944	Education,
Morehead State Teachers College since 1946	Supervising
	Teacher, Fifth
	Grade
PRISCILLA GIBSON, B.S., A.M.....	Instructor in
B.S., Buffalo State College, 1940	Home
A.M., Columbia University, 1946	Economics
Morehead State Teachers College since 1946	
OCTAVIA GRAVES, A.B., A.M.....	Associate
A.B., Morehead State Teachers College, 1938	Professor of
A.M., George Peabody College, 1939	Education
Morehead State Teachers College since 1946	
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 Teachers College since 1923	Department

* Leave of absence 1946-47—State Department of Education.

- NOAH C. HELLER, A.B., B.S., A.M., M.Ed.....Associate
 A.B., Central Missouri State Teachers College, 1931 *Professor of Chemistry*
 B.S., Central Missouri State Teachers College, 1931
 A.M., University of Missouri, 1933
 M.Ed., University of Missouri, 1938
 Morehead State Teachers College since 1946
- MARGARET WARREN HOWARD, A.B., A.M.....Instructor in
 A.B., University of Kentucky, 1936 *Health and*
 A.M., University of Kentucky, 1941 *Physical*
 Morehead State Teachers College since 1944 *Education*
- KEITH HUFFMAN, A.B., A.M.....Instructor in
 A.B., Morehead State Teachers College, 1943 *Music*
 A.M., University of Iowa, 1947
 Morehead State Teachers College since 1947
- INEZ FAITH HUMPHREY, A.B., A.M.....Associate
 A.B., Eureka College, 1910 *Professor of*
 A.M., University of Chicago, 1927 *English*
 Morehead State Teachers College since 1923
- WARD B. JACKSON, A.B., A.M.....Instructor in
 A.B., University of Kentucky, 1928 *Education,*
 A.M., University of Kentucky, 1932 *Dean of Men*
 Morehead State Teachers College since 1935
- *RIENZI WILSON JENNINGS, B.S., A.M.....Associate
 B.S., University of Iowa, 1927 *Professor of*
 A.M., University of Kentucky, 1928 *Commerce,*
 Morehead State Teachers College since 1938 *Head of*
Department
- ELLIS TUCK JOHNSON, A.B., A.M.....Assistant Professor
 A.B., University of Kentucky, 1932 *of Health and*
 A.M., University of Kentucky, 1937 *Physical*
 Morehead State Teachers College since 1936 *Education,*
Head of
Department,
Head Coach
- ROBERT G. LAUGHLIN, A.B., A.M.....Instructor in
 A.B., Morehead State Teachers College, 1937 *Health and*
 A.M., University of Kentucky, 1941 *Physical*
 Morehead State Teachers College since 1935 *Education,*
Assistant Coach

* Leave of absence 1946-47.

JESSE T. MAYS, A.B., A.M.	Assistant Professor
A.B., Union College, 1931	of Industrial
A.M., George Peabody College, 1933	Arts, Head of
Morehead State Teachers College since 1933	Department,
	Assistant
	Dean of Men
*JUANITA MINISH, A.B., A.M.	Instructor in
A.B., Transylvania College, 1919	Education,
A.M., George Peabody College, 1930	Supervising
Morehead State Teachers College since 1930	Teacher in
	Foreign
	Language
AMY IRENE MOORE, B.S., A.M.	Instructor in
B.S., Kansas State Teachers College, 1917	Education,
A.M., University of Chicago, 1925	Supervising
Morehead State Teachers College since 1932	Teacher in
	Mathematics
EDNA NEAL, A.B., A.M.	Instructor in
A.B., University of Kentucky, 1929	Education,
A.M., Teachers College, Columbia University,	Supervising
1933	Teacher,
Morehead State Teachers College since 1929	Second Grade
HAZEL NOLLAU, B.S., M.S.	Instructor in
B.S., University of Kentucky, 1934	Education,
M.S., University of Kentucky, 1935	Supervising
Morehead State Teachers College since 1943	Teacher in
	Science
PAUL C. OVERSTREET, A.B., M.S.	Instructor in
A.B., Asbury College, 1913	Mathematics
M.S., University of Iowa, 1925	and Physics
Morehead State Teachers College since 1946	
STANLEY RADJUNAS, A.B.	Instructor in
A.B., Morehead State Teachers College, 1940	Health and
Morehead State Teachers College since 1946	Physical
	Education,
	Assistant Coach
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 Teachers College since 1931	Teacher,
	Third Grade

* Leave of absence first quarter 1946-47.

- RUTH RUCKER, B.S., A.M.....*Instructor in*
 B.S., University of Missouri, 1929 *Commerce*
 A.M., University of Missouri, 1930
 Morehead State Teachers College since 1943
- HUGH M. SHAFER, B.S., A.M., Ph.D.....*Professor of*
 B.S., West Virginia University, 1933 *Education,*
 A.M., West Virginia University, 1934 *Head of*
 Ph.D., University of Minnesota, 1943 *Department*
 Morehead State Teachers College since 1946
- RUTH K. SHORT, B.S., M.S.....*Instructor in*
 B.S., Madison College, 1942 *Home*
 M.S., University of Tennessee, 1944 *Economics*
 Morehead State Teachers College since 1944
- MILDRED SWEET, A.B., A.M.....*Instructor*
 A.B., Morningside (Iowa) College, 1928 *in Music*
 A.M., Eastman School of Music, 1932
 Morehead State Teachers College since 1940
- JOHN THOMAN, B.S.....*Instructor*
 B.S., University of Kentucky, 1942 *in Music*
 Morehead State Teachers College since 1946
- REBECCA THOMPSON, B.S., A.M.....*Assistant Professor*
 B.S., George Peabody College, 1925 *of Education,*
 A.M., George Peabody College, 1929 *Supervising*
 Morehead State Teachers College since 1929 *Teacher,*
Sixth Grade
- CHILES VANANTWERP, A.B., A.M.....*Assistant Professor*
 A.B., University of Michigan, 1922 *of Education,*
 A.M., University of Michigan, 1934 *Director of*
 Morehead State Teachers College since 1940 *Training School*
- RODNEY WELLS, A.B., A.M.....*Assistant Professor*
 A.B., Drake University, 1913 *of History and*
 A.M., Drake University, 1918 *Government*
 Morehead State Teachers College since 1946
- MARY EUGENIA WHARTON, A.B., A.M., Ph.D.....*Assistant Professor*
 A.B., University of Kentucky, 1935 *of Biology,*
 A.M., University of Michigan, 1936 *Acting Head of*
 Ph.D., University of Michigan, 1945 *Department*
 Morehead State Teachers College since 1945
- ELLA O. WILKES, B.S., M.S.....*Associate*
 B.S., George Peabody College, 1924 *Professor of*
 M.S., University of Chicago, 1931 *Geography*
 Morehead State Teachers College since 1932

- GEORGE THOMPSON YOUNG, A.B., A.M.....*Instructor in*
A.B., Centre College, 1931 *Education,*
A.M., Teachers College, Columbia University, *Supervising*
1935 *Teacher in*
Morehead State Teachers 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 Teachers College since 1936

COMMITTEES

EXECUTIVE

BAIRD, HOGAN, LAPPIN, MILTON, (2 faculty representatives)

IMPROVEMENT OF INSTRUCTION

LAPPIN, DOERING, FAIR, SHAFER, THOMPSON, WHARTON, WILKES,
GEORGE YOUNG, THOMAS YOUNG

LIBRARY

FOWLER, CHAPMAN, CLAYPOOL, DOERING, GRAVES, THOMPSON, WHARTON

SOCIAL

GRAVES, HOWARD, JACKSON, MAYS, RADJUNAS, SMITH, THOMAN,
THOMAS YOUNG

GRADUATE INSTRUCTION

LAPPIN, BILLHARTZ, CAREY, DOERING, SHAFER, WHARTON

ATHLETIC

FAIR, ANDERSON, FOWLER, HOGAN, JACKSON, JOHNSON, MAYS, RICE

BUILDINGS AND GROUNDS

HAGGAN, JENNINGS, MOORE, RICE, THOMAS YOUNG

SPECIAL ENTERTAINMENTS

GEORGE, BANKS, ETTLESON, NEAL, WILKES

CURRICULUM

LAPPIN, BILLHARTZ, CAREY, DOERING, GEORGE, HAGGAN, SHAFER,
VANANTWERP

CHRISTIAN ORGANIZATIONS

BANKS, BRAUN, HAGGAN, HUMPHREY, ROOME

TRAIL BLAZER

BRADLEY, CLAYPOOL, ETTLESON

GUIDANCE

LAPPIN, ANDERSON, MILTON, SHAFER, WILKES

STUDENT LOAN

GEORGE, FAIR, JACKSON, MINISH, RUCKER

PUBLIC RELATIONS

BANKS, BRADLEY, EVANS, MAYS

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 that time, the name of the school has been changed twice. In 1926, it became Morehead State Normal School and Teachers College and in 1930, the present name of Morehead State Teachers College was adopted.

The first president of the institution was Professor Frank C. Button, who for twenty-five years had been president of Morehead Normal School, a private institution upon whose site the State Normal School was built. On September 24, 1923, the school opened with a faculty of nine members and a student body of less than one hundred. Before the end of the first year, the faculty consisted of thirteen members and the student body had increased to two hundred fifty.

LOCATION

The Morehead State Teachers 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, Breekinridge 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 34,000 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 homerooms, 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 Admissions, Morehead State Teachers 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.

Any student may take an entrance examination on 15 units of high school work selected by him from subjects listed for Kentucky High Schools by the State Department of Education.

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 should 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." 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 58 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

Twelve quarter hours of credit will be granted to those veterans who present evidence of having completed basic training courses in the armed forces.

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 quarter 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 four quarters, each being approximately twelve weeks in length. It is desirable, of

course, that students enter at the beginning of the fall quarter, since the year's work is organized to start at that time. By attending during all quarters, it is possible for capable and ambitious students to complete the four years of college work in three 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 Admissions 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 quarter 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 Director of Admissions.

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 Director of Admissions on recommendation of the Dean of Women 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 Women 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 Admissions 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 \$6.00 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 four cafeteria coupon books in advance at the beginning of each quarter, and two coupon books at the beginning of each summer term. Each dormitory student must purchase a minimum of six coupon books during a quarter. All of these must be purchased not later than two weeks before the close of the quarter.

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 Teachers 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 not carry 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 quarter is 12 quarter hours, and the normal amount is 16 quarter hours. Permission to carry more than 18 quarter hours requires the consent of the Executive Committee. A freshman will not be permitted to carry more than 17 quarter hours during his first quarter in residence.

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 quarter 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 65 quarter 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 quarter 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 quarter's work is placed on probation for the next quarter 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 two quarters 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 quarter or term.

DISCIPLINE

When students enroll in the Morehead State Teachers 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 quarter or term must arrange for their withdrawal with the Director of Admissions 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 \$22.50 for each quarter. The incidental fee for students residing outside of Kentucky is \$35.00 per quarter. 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 Teachers College.

The college has a special payment plan for those who are unable to pay the entire expenses for the quarter 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 Comptroller, 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 quarter 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 \$1.00 a quarter 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 \$1.50 a quarter 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 quarter, and a subscription to the Trail Blazer, a fee of \$3.00 a quarter 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 \$3.00 per quarter 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 \$1.00 per quarter. Families of faculty members and employees are included in this classification.

Pupils enrolled in the Breekinridge 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 Winter Quarter and from all additional students enrolling for the Spring Quarter.

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
QUARTER:**

Incidental fee	\$22.50
Deposit fee	3.00

Room rent	30.00
Board @ \$6.00 per week approximately	72.00
College post office box rent50
Estimated cost of books	10.00
Laboratory fee	3.00
Student activity fee.....	3.00
Medical fee	1.00
Laundry fee	1.50
Total	<u>\$146.50</u>

**THE FOLLOWING EXPENSES ARE PAYABLE IN ADVANCE
FOR THE QUARTER:**

Incidental fee	\$22.50
Deposit fee	3.00
Room rent in the dormitories.....	30.00
Board in the college cafeteria, 4 tickets	20.00
College post office box rent50
Laboratory fee	3.00
Student activity fee.....	3.00
Medical fee	1.00
Laundry fee	1.50
Total	<u>\$84.50</u>

PART-TIME FEES:

The Incidental Fee for students enrolled for less than 12 quarter hours of work is \$2.00 per quarter hour.

FEES FOR GRADUATE INSTRUCTION:

The Incidental Fee for graduate students is \$2.00 per quarter 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 quarter.

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 quarter. 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 6 hours of credit in this type of work during any quarter or more than 18 hours during a school year.

INFORMATION OF PARTICULAR INTEREST TO FRESHMEN

1. What has been the history of the college?

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

2. 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, 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.)

3. 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 con-

stantly 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 pp. 6-13 of this catalog.

4. 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. 31 of this catalog.

5. 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. 19 of this catalog.

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

Anyone wishing to be admitted to the college should write to the Director of Admissions, Morehead State Teachers College, Morehead, Kentucky, and enclose the Reservation Fee of \$3.00. The Director of Admissions will then send to the student all necessary forms and instructions for completing the application.

7. What are the requirements for graduation at Morehead?

To graduate at Morehead you must earn a minimum of 192 quarter hours of college credit, at least 65 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 elementary teachers you should read carefully the material on p. 49 of this catalog; if you are interested in the program for high school teachers read pp. 50-56; and if you are interested in a degree without a teaching certificate read pp. 51 and 53. 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.

8. 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.

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

The incidental fee for Kentucky students is \$22.50 per quarter and for out-of-state students this fee is \$35.00. An itemized list of the usual expenses of students is estimated on p. 29 of this catalog.

10. 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 sponsors varsity teams in the major sports. The success of these teams in recent 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. 41-44 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 \$1.00 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 Teachers College, and the money is advanced each quarter 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 Teachers 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 quarter.

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 Teachers College is a state institution, it is, of course, non-denominational.

There are six 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 play football and basketball and to take part in track. 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 Teachers College is a member of the Southern Intercollegiate Athletic Association.

COMMENCEMENTS

The college has two commencement exercises each year, one at the close of the spring quarter in June and the other at the close of the summer quarter in August.

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. Those students who have satisfied the requirements for graduation by the end of the fall, winter, or spring quarters will participate in the commencement exercises in June and will be regarded as members of that class, and those students who have satisfied the requirements for graduation by the end of the summer quarter will participate in the commencement exercises in August.

TRAIL BLAZER

The Trail Blazer, official newspaper of the Morehead State Teachers College, is published 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.

QUILL AND QUAIR

The Quill and Quair, the college literary magazine, is published three times each year by the Quill and Quair Club. Such nationally known authors as Jesse Stuart and J. T. C. (Cotton) Noe, poet laureate of Kentucky, have honored the magazine with their contributions. Contributions of original short stories, essays, poems, and other types of creative writing are solicited from members of the student body and from alumni and former students. High school students in the area are invited to contribute to the February issue.

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 Quill and Quair Club is composed of students majoring in English and others who have some ability to do creative writing. The purpose is to develop a deeper appreciation for good literature and to encourage students who have more than average ability in writing. The club sponsors the publication of a literary magazine, *The Quill and Quair*.

The College Players is the dramatic club on the campus. The players do not have officers or dues. Those persons who are selected to take parts in the plays automatically become College Players. Selections are made on try-outs, past experience in dramatics, and other recognized methods. Students who have parts in the productions must have the general college requirement of an average standing of one.

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 College Choir is a limited group of singers whose personnel is chosen each quarter by competitive tryouts to fill any vacancies in its ranks. The organization has a noteworthy record.

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." In 1942 the Morehead Chapter was placed on the F.T.A. Victory Honor Roll.

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 re-

lated activities. Students who are qualified for membership are elected by existing members. An average class standing of "C" is a prerequisite to election.

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

Alumni Association. The purpose of the Alumni Association is to stimulate mutual interest between the college and former students. Payment of the annual membership dues also secures a year's subscription to the Trail Blazer. Every graduate should become a member of the association. Meetings are held during the 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 Veteran's Club is composed of Veterans of World War II and its regular meetings are held on the second Monday of each month during the school year. The purpose of the club is to disseminate all necessary and proper information pertaining to the benefits and rights of the honorably discharged veterans and to promote their welfare on the campus.

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.

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 in Business Administration
8. Degree of Master of Arts in Education

The college awards two undergraduate degrees, the Bachelor of Arts and the Bachelor of Science. Each degree may be taken with or without a certificate. The student should notice that the requirements for the degrees differ according to the type of degree and the type of certificate. The chief distinction between the Bachelor of Arts degree and the Bachelor of Science degree is the 90 quarter hour requirement in science for the latter. There are also differences between the Bachelor of Arts degree with the Elementary Certificate and the same degree with the High School Certificate. There are accordingly eight distinct courses of study leading to the degree. The student should choose early in his college career which course he prefers to take.

GENERAL REQUIREMENTS FOR THE BACHELOR'S DEGREE

The candidate for the degree must meet the following general requirements:

1. A minimum of 192 quarter hours of prescribed and elective college credit.
2. An average standing of 1 or higher, on all residence work completed in this college.
3. At least three-fourths of the credit in residence in some standard college and at least one year in residence and one quarter immediately preceding graduation in this institution. (One year in residence is interpreted as being three quarters, during which a minimum of 48 hours of credit will have been earned.)
4. Not less than 65 quarter hours of work offered for the degree must be selected from courses numbered 300 or above.

MAJORS AND MINORS

Not later than the beginning of the sophomore year, the applicants for degrees must file with the Registrar 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 36 quarter hours each, or one major of 36 quarter hours and two minors of 24 quarter 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	Sociology
History	Sociology and Economics

* In English a major requires a minimum of 46 quarter hours and a minor 30 quarter hours. (See p. 109.)

† 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 18 quarter 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
Agriculture

Music
Art

REQUIREMENTS FOR DEGREES AND CERTIFICATES

THE BACHELOR OF ARTS DEGREE

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

	Qu. Hrs.
a. Education	38
1. General or Educational Psychology	4
2. Fundamentals of Elementary Education	6
3. Supervised Student Teaching	8
4. The Psychology of Childhood	4
5. Reading in the Elementary School	4
6. Elective in Elementary Education	4
7. Elective in Education	8
b. English	22
1. Composition	9
2. Literature	9
3. Children's Literature	4
c. Science	16
(These courses must be selected from the fields of Biology, Chemistry, Physics, or Geology.)	
d. Social Science	20
1. American History and Government	
or	
History of Civilization	8
2. Introductory Sociology	
or	
Rural Sociology	4
3. Elective in Social Science	8
e. Teaching of Arithmetic	4
f. Art	6
1. Public School Art	6
g. Music	6
1. Rudiments of Music	2
2. Music for the Primary Grade Teacher	2
3. Music for the Intermediate Grade Teacher	2
h. Personal Hygiene and Public Safety	3
i. Physical Education	3
(These credits must be earned in activity courses.)	

j. Geography	8
1. Principles of Geography	4
2. Elective in Geography	4
k. Elective	69
l. See General Requirements for the Bachelor's Degree, p. 46.	

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

	Qu. Hrs.
a. Education	27
1. General or Educational Psychology	4
2. Secondary Education	8
3. Supervised Student Teaching (The last four hours of this teaching must be in the secondary school)	8
4. Elective in Education	7
b. English	18
1. Composition	9
2. Literature	9
c. One academic major of not less than 36 quarter hours and two academic minors of not less than 24 hours each; or two academic majors of not less than 36 hours each; or an area of concentration of not less than 72 hours	72-84
d. A minimum of 40 quarter hours to be selected from at least 3, and not more than 4, of the following fields	40
(These selections must be made from fields other than those in which the student's majors, minors, or area of concentration are chosen.)	
1. Fine Arts	8-24
Art	
Music	
2. Foreign Language	8-24
3. Mathematics	8-24
(Credit in Teacher's Arithmetic, Business Arithmetic, or Shop Mathematics may not be used to satisfy this requirement.)	
4. Health, Physical Education, and Safety	8-24
5. Vocational Fields	8-24
Agriculture	
Commerce	
Home Economics	
Industrial Arts	
Library Science	

6. Science	8-24
Biology	
Chemistry	
Geology	
Physics	
7. Social Science	8-24
Economics	
Geography	
History	
Political Science	
Sociology	
e. Health	3
f. Physical Education	3
(These credits must be earned in activity courses.)	
g. Electives	17-29
h. See General Requirements for the Bachelor's Degree, p. 46.	

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

Candidates for this degree must meet the requirements for either the A.B. degree and the 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:

	Qu. Hrs.
a. Administration and Supervision	12
1. Public School Administration and Supervision	4
2. Elementary School Administration and Supervision	4
3. High School Administration and Supervision....	4
b. Elementary Education	8
c. Secondary Education	8

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

	Qu. Hrs.
a. One Foreign Language	16
b. English	18
c. Science (Biology, Chemistry, Geology, Physics)	16
d. Mathematics (Credit in Teacher's Arithmetic, Business Arithmetic, or Shop Mathematics may not be used to satisfy this requirement)	10
e. Social Science	16
f. Health and Safety	3
g. Physical Education	3
(These credits must be earned in activity courses.)	

- h. Two academic majors of not less than 36 quarter hours each or one academic major of not less than 36 hours and two academic minors of not less than 24 hours each 72-84
- i. Electives 26-38
- j. See General Requirements for the Bachelor's Degree, p. 46.

THE BACHELOR OF SCIENCE DEGREE

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

	Qu. Hrs.
a. Education	27
1. General or Educational Psychology	4
2. Secondary Education	8
3. Supervised Student Teaching (The last four hours of this teaching must be in the secondary school)	8
4. Elective in Education	7
b. English	18
1. Composition	9
2. Literature	9
c. Two academic majors of not less than 36 quarter hours each; or one academic major of not less than 36 hours and two academic minors of not less than 24 hours each; or an area of concentration of not less than 72 hours	72-84
d. A minimum of 40 quarter hours to be selected from at least three, and not more than four, of the following fields	40
(These selections must be made from fields other than those in which the student's majors, minors, or area of concentration are chosen.)	
1. Fine Arts (Includes Art and Music)	8-24
2. Foreign Language	8-24
3. Mathematics	8-24
(Credit in Teacher's Arithmetic, Business Arithmetic, or Shop Mathematics may not be used to satisfy this requirement.)	
4. Health, Physical Education, and Safety	8-24
5. Vocational Fields (Includes Agriculture, Commerce, Home Economics, Industrial Arts, Library Science)	8-24

6. Science (Includes Biology, Chemistry, Geology, and Physics)	8-24
7. Social Science (Includes Economics, Geography, History, Political Science, and Sociology)	8-24
e. Health and Safety	3
f. Physical Education	3
(These credits must be earned in activity courses.)	
g. Electives	17-29
h. See General Requirements for the Bachelor's Degree, p. 46.	

Special Note: To qualify for the Bachelor of Science Degree the student must earn credit for a minimum of 90 quarter hours in Science.

II. The Bachelor of Science Degree and the Provisional Certificate in Administration and Supervision

Candidates for this degree 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:

	Qu. Hrs.
a. Administration and Supervision	12
1. Public School Administration and Supervision	4
2. Elementary School Administration and Supervision	4
3. High School Administration and Supervision....	4
b. Elementary Education	8
c. Secondary Education	8

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

	Qu. Hrs.
a. One Foreign Language	16
b. English	18
c. Mathematics	10
(Credit in Teacher's Arithmetic, Business Arithmetic, or Shop Mathematics, may not be used to satisfy this requirement.)	
d. Social Science	16
e. Health and Safety	3
f. Physical Education	3
(These credits must be earned in activity courses.)	
g. Two academic majors of not less than 36 quarter hours each or one academic major of not less than 36 hours and two academic minors of not less than 24 hours each	72-84

- h. Electives 42-54
 i. See General Requirements for the Bachelor's Degree, p. 46.

Special Note: To qualify for the Bachelor of Science degree the student must earn a minimum of 90 quarter hours in Science.

IV. The Bachelor of Science Degree in Vocational Home Economics

	Qu. Hrs.
a. Education	24
1. General or Educational Psychology	4
2. The Psychology of Childhood	4
3. The Psychology of Adolescence	4
4. Principles of Secondary Education	
or	
Tests and Measurements in the Secondary School	4
5. Directed Teaching in Vocational Home Economics	8
b. English	21
1. Composition	9
2. Literature	9
3. Public Speaking	
or	
Journalism	3
c. Science	36
1. General Biology	5
2. Household Physics	4
3. General Chemistry	12
4. Organic Chemistry	4
5. Human Physiology	5
6. Bacteriology	6
d. Art	7
1. Art Appreciation	4
2. Color and Design	3
e. Social Science	12
1. American History	4
2. Sociology	4
3. Economics	4
f. Physical Education	3
(These credits must be earned in activity courses.)	
g. Home Economics	76
1. Orientation in Home Economics	2
2. Home Nursing and Health of the Family	3
3. Elementary Nutrition and Food Planning	3
4. Clothing Design and Selection	3

5. Food Planning and Meal Preparation	4
6. Problems in Clothing Construction	4
7. Advanced Meal Preparation and Table Service	4
8. Textiles	3
9. Family Clothing Problems	2
10. Consumer Problems	4
11. Nutrition	4
12. Intermediate Clothing Construction	4
13. Housing	4
14. The Young Child and His Family	4
15. Advanced Nutrition	4
16. Tailoring	4
17. Interior Decoration	4
18. Home Management Methods	3
19. Social and Economic Problems of the Family....	4
20. Home Management House	5
21. Methods of Teaching Vocational Home Economics	4
h. Elective	12
i. See General Requirements for the Bachelor's De- gree, p. 46.	

V. Bachelor of Science Degree in Business Administration

	Qu. Hrs.
a. English	22
English Composition, English Literature and Public Speaking	
b. Science	16
Biology, Chemistry, Geology or Physics	
c. One Foreign Language	16
French, German or Spanish	
d. Mathematics	14
College Algebra, Mathematics of Finance and Statistics	
e. Social Science	16
General Economics, Government of the United States and Principles of Geography	
f. Health and Physical Education	6
g. Major Requirements	
Com. 211 Beginning Typewriting	3
Com. 221 Business English	3
Geog. 211 Economic Geography	4
Ec. 302 Labor Problems	4
Ec. 304 Marketing	4
Ec. 349 Economic History of the U. S.	4
Com. 360 Business Organization	4

Com. 361 Introduction to Business Administration	4
Com. 381-3 Principles of Accounting	12
Ec. 442 Money and Banking	4
Ec. 443 Investments	4
Com. 450 Salesmanship	4
Com. 461-2 Business Law	8
Com. 464 Office Management	4
Elective (300 or 400 courses in Economics or Commerce)	6
h. Elective	30
i. See General Requirements for the Bachelor's De- gree, p. 46.	

THE PROVISIONAL ELEMENTARY CERTIFICATE

The first certificate to be issued on college credit is the Provisional Elementary Certificate. To receive this teaching credential, the student must have completed two years of college work (ninety-six quarter 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 required courses must be included in the student's program of studies—

a. Education	22
1. Educational or General Psychology	4
2. Fundamentals of Elementary Education	6
3. Reading in the Elementary School	4
4. Supervised Student Teaching	4
5. Elective in Education	4
b. English	19
1. Composition	9
2. Literature	6
3. Children's Literature	4
c. Social Science	12
1. American History and Government or History of Civilization	8
2. Rural Sociology	4
d. Principles of Geography	4
e. Teaching of Arithmetic	4
f. Science	8
1. Nature Study	4
2. Elective in Science (Biology, Chemistry, Geology, Physics)	4
g. Music	4
1. Rudiments of Music	2
2. Music for the Primary Grade Teacher	2

h. Art	4
1. Public School Art	4
i. Personal Hygiene and Public Safety	3
j. Physical Education	3
(These credits must be earned in activity courses)	
k. Elective	13

ATTENDANCE OFFICER'S CERTIFICATE

The Attendance Officers Certificate, valid for three years, shall be issued to a person who has met the requirements of law and who, in addition thereto, has completed (a) a two-year curriculum for the training of teachers, which curriculum shall include four quarter hours of credit in pupil accounting; or (b) a two-year standard college curriculum which shall include 18 quarter hours in education courses with four quarter hours in pupil personnel. This certificate may be reissued every three years upon three years' experience as an attendance officer, or 24 quarter hours of standard college credit.

GRADUATE STUDY

The graduate program is under the general direction of the Committee on Graduate Instruction. This committee is appointed by the president of the college, on the advice of the dean, and is composed of one faculty member from each department offering approved courses for graduate credit.

The director of graduate instruction is the dean of the college, who also serves as chairman of the Committee on Graduate Instruction.

The Committee on Graduate Instruction prescribes the qualifications of all teachers who offer graduate work and approves all courses which may be taken for graduate credit.

The graduate degree granted by the Morehead State Teachers College is the professional degree, Master of Arts in Education.

REQUIREMENTS FOR 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 Teachers 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 must be pursued under the direction of a committee of three members. This committee is composed of one member appointed by the head of the department of education, one member appointed by the head of the department in which the student is minor-ing, and the Director of Graduate Instruction, who acts as secretary of the committee.
5. The applicant must arrange a program of graduate work under the direction of his graduate committee, and he

shall not be 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 the equivalent of an undergraduate minor in education, including credit in student teaching; must secure the approval of his complete graduate program, including his thesis problem, from his Graduate Committee; 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 for the Master's Degree

1. A 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 of residence and a minimum of 45 quarter hours of work, 36 of which must be 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 54 quarter hours of credit and 48 weeks of residence.Students who expect to continue their training beyond 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. A graduate major requires a minimum of 18 quarter hours of course work in addition to a thesis in the field.
4. Graduate students may take upper division courses, but at least 50 per cent of all course work must be in courses open to graduate students only.
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; (4) correspondence or extension credit.
6. In evaluating residence for part-time students, one quarter hour of class work entitles the student to one week of residence.

7. Students holding what would ordinarily be considered as full-time positions are not permitted to receive graduate credit for more than 6 quarter hours of work during any quarter.
8. Not more than 9 quarter hours credit earned in on-campus week-end classes or night classes, is accepted in satisfaction of the course requirements for the degree.
9. No graduate student is permitted to earn more than 16 quarter hours of credit in any quarter or more than 8 hours in any summer term.
10. Transferred credits may not be used to reduce either the residence requirements or the minimum number of quarter hours required. This regulation does not prevent the Committee on Graduate Instruction from recommending that a regularly enrolled graduate student complete not to exceed 9 quarter hours of work in another institution.
11. In all cases the requirements for the degree must be completed within five years from the date of beginning graduate work.
12. 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.)

IV. Thesis Requirements.

1. If a thesis is written not more than 9 quarter hours credit is granted for its completion, half of which is for seminar in educational research and thesis writing for which the student enrolls each term that he is in residence and half to be credit for the accepted thesis.
2. The candidate must include the thesis in his schedule and must pay the regular fee for each hour of credit received.
3. The thesis problem must be approved before the student is admitted to candidacy for the Master's degree.
4. The finished thesis must be presented to the student's Graduate Committee at least 30 days before the date of his examination.
5. If the thesis is accepted, two typewritten copies bound in prescribed form must be filed with the Director of Graduate Instruction not later than 15 days before the date of the final examination.

V. Examination

The candidate must present himself, at a date and time to be announced, for oral and/or written examinations on his

graduate work, including the thesis. This examination is conducted by the student's Graduate Committee and the Committee on Graduate Instruction. Other members of the faculty may be invited by the Committee on Graduate Instruction to participate in the examination.

SUGGESTED PROGRAMS OF STUDY

In order that students with certain special interests may select their courses wisely and, at the same time, be certain that they are meeting all requirements, several curricula are outlined in detail by quarters. This does not mean that the curricula as outlined must be followed exactly at all times. However, students should consult the suggested program in the field in which they are interested and follow the suggestions as closely as possible. Changes from the suggested program should be made only after a conference with the dean of the college.

SUGGESTED FOUR-YEAR PROGRAM FOR PRE-MEDICAL AND PRE-DENTAL STUDENTS

(Students who complete this program successfully will be granted the Bachelor of Science degree.)

FIRST YEAR

First Quarter	Qu. Hrs.	Second Quarter	Qu. Hrs.	Third Quarter	Qu. Hrs.
English 101	3	English 102	3	English 103	3
Biology 101	5	Biology 211	4	Biology 212	4
Chemistry 111	4	Chemistry 112	4	Chemistry 113	4
Mathematics 151	5	Mathematics 141	5	Social Science†	4
Physical Education	1	Physical Education	1	Physical Education	1
	<u>18</u>		<u>17</u>		<u>16</u>

SECOND YEAR

First Quarter	Qu. Hrs.	Second Quarter	Qu. Hrs.	Third Quarter	Qu. Hrs.
English*	3	English*	3	English*	3
German 101	4	German 102	4	German 103	4
Biology 332	5	Biology 317	6	Biology 336	4
Chemistry 221	4	Chemistry 222	4	Chemistry 223	4
	<u>16</u>		<u>17</u>		<u>15</u>

THIRD YEAR

First Quarter	Qu. Hrs.	Second Quarter	Qu. Hrs.	Third Quarter	Qu. Hrs.
German 201	4	German 202	4	German 203	4
Physics 131	4	Physics 132	4	Physics 133	4
Chemistry 331	4	Chemistry 332	4	Chemistry 333	4
Social Science†	4	Social Science†	4	Social Science†	4
	<u>16</u>		<u>16</u>		<u>16</u>

* See p. 109 of this catalog for the general requirements in English.

† Elect eight hours in advanced American history and eight hours in sociology.

FOURTH YEAR

First Quarter	Qu. Hrs.	Second Quarter	Qu. Hrs.	Third Quarter	Qu. Hrs.
Biology 434	6	Biology 438	6	Biology 304	4
Chemistry 442	4	Psychology 153	4	English 181	3
Biology 471	1	Chemistry 443	4	Chemistry 451	4
Elective	4	Biology 471	1	Biology 471	1
	<hr/> 15		<hr/> 15	Elective	<hr/> 4
					<hr/> 16

SUGGESTED FOUR-YEAR PROGRAM IN VOCATIONAL HOME ECONOMICS

(Students who complete this program successfully will be granted the degree of Bachelor of Science in Home Economics and will be eligible to teach in vocational home economics departments in high schools of the state.)

FIRST YEAR

First Quarter	Qu. Hrs.	Second Quarter	Qu. Hrs.	Third Quarter	Qu. Hrs.
English 101	3	English 102	3	English 103	3
Education 154	4	Art 161	2	Art 291	2
Home Economics 101	2	Biology 101	5	Home Economics 131	4
Home Economics 103	3	Home Economics 130	3	Home Economics 141	4
Physical Education	1	Home Economics 140	3	Physical Education 1	1
Elective	4	Physical Education	1		
	<hr/> 17		<hr/> 17		<hr/> 15

SECOND YEAR

First Quarter	Qu. Hrs.	Second Quarter	Qu. Hrs.	Third Quarter	Qu. Hrs.
English (Literature)	3	English (Literature)	3	English 226	4
Chemistry 111	4	Chemistry 112	4	Chemistry 113	4
Home Economics 231	4	Home Economics 240	3	Home Economics 241	2
History 241	4	Physics 111	4	Economics 201	4
	<hr/> 15	English 181	3	Art 162	2
			<hr/> 17		<hr/> 16

THIRD YEAR

First Quarter	Qu. Hrs.	Second Quarter	Qu. Hrs.	Third Quarter	Qu. Hrs.
Education 350	4	Education 454	4	Education 470	4
Chemistry 331	4	Biology 332	5	or 471	4
Home Economics 301	4	Home Economics 333	4	Biology 317	6
Home Economics 351	4	Home Economics 355	4	Home Economics 341	4
	<hr/> 16		<hr/> 17		<hr/> 14

FOURTH YEAR

First Quarter	Qu. Hrs.	Second Quarter	Qu. Hrs.	Third Quarter	Qu. Hrs.
Home Economics 431	4	Home Economics 452	3	Home Economics 454	5
Home Economics 441	4	Home Economics 453	4	Home Economics 475	8
Home Economics 451	4	Home Economics 470	4	Elective	4
Sociology 201	4	Elective	5		
	<hr/> 16		<hr/> 16		<hr/> 17

SUGGESTED TWO-YEAR PROGRAM FOR PRE-NURSING STUDENTS

FIRST YEAR

First Quarter	Qu. Hrs.	Second Quarter	Qu. Hrs.	Third Quarter	Qu. Hrs.
English 101	3	English 102	3	English 103	3
Biology 101	5	Biology 211	4	Biology 212	4
Chemistry 111	4	Chemistry 112	4	Chemistry 113	4
Psychology 153	4	Mathematics 151	5	Sociology 180	4
Physical Education	1	Physical Education	1	Physical Education	1
	<hr/> 17		<hr/> 17		<hr/> 16

SECOND YEAR

First Quarter	Qu. Hrs.	Second Quarter	Qu. Hrs.	Third Quarter	Qu. Hrs.
Biology 332	5	Biology 317	6	Biology 336	4
Chemistry 221	4	Chemistry 331	4	Chemistry 332	4
Physics 131	4	Physics 132	4	Physics 133	4
History 241	4	History 242	4	English 181	4
	<hr/> 17		<hr/> 18		<hr/> 16

SUGGESTED TWO-YEAR PROGRAM FOR ELEMENTARY TEACHERS

(Students who complete this program successfully will be eligible to receive the Provisional Elementary Certificate.)

FIRST YEAR

First Quarter	Qu. Hrs.	Second Quarter	Qu. Hrs.	Third Quarter	Qu. Hrs.
English 101	3	English 102	3	English 103	3
Education 154	4	Education 220	6	Education 226	4
History 241	4	Art 121	2	Geography 100	4
Library Science 186	1	Political Science 141	4	Biology 203	4
Health and Safety	2	Physical Education	1	Physical Education	1
203	2				
Physical Education	1				
	<hr/> 16		<hr/> 16		<hr/> 16

SECOND YEAR

First Quarter	Qu. Hrs.	Second Quarter	Qu. Hrs.	Third Quarter	Qu. Hrs.
English (Literature)	3	English (Literature)	3	English 226	4
Education 350	4	Education 325	4	Home Economics 102	3
Education 121	4	or		or	
Art 122	2	Home Economics 102	3	Education 325	4
Health and Safety 104	3	Music 100	2	Music 121	2
		Science (Elective)	4	Physical Educa. 220	3
		Agriculture	4	Sociology 180	4
	<hr/> 15		<hr/> 16 or 17		<hr/> 16 or 17

Departmental Offerings

DEPARTMENT OF AGRICULTURE

Mr. Haggan

REQUIREMENTS:

	Qu. Hrs.
<i>For a Major:</i>	
Agriculture 111, 180, 215, 237, 334, 415	24
Three additional courses in agriculture above 300	12
Minimum	36
<i>For a Minor:</i>	
Agriculture 111, 180, 215, 237	16
Two additional courses in agriculture above 300	8
Minimum	24

Note:—Students who desire to prepare for the teaching of vocational agriculture under the Smith-Hughes Act should consult the head of the department before making out a schedule. All work in agriculture applying on a major and minor also applies on the Smith-Hughes and county agent work.

DESCRIPTION OF COURSES

Agriculture 101. General Agriculture. Four hours.

Purpose: To give the student a good basic course in general agriculture for the purpose of teaching it in the seventh and eighth grades.

Topics: A brief study of the following will be made: small grains; forage crops; horticulture; soils; farm animals; farm management. Special emphasis will be laid on adapting these topics to the needs of eastern Kentucky and on the methods of practical application.

Agriculture 111. Soils. Four hours.

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

Topics: Study is made of soil-forming rocks, soil-forming processes; chemical, physical, and biological functions of soils; fertilizers; soil surveys; and maintenance of soil fertility.

Agriculture 180. Agronomy. Four hours.

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

Topics: General farm crops; principal varieties of crops and those best adapted to Kentucky conditions; botanical relations; judging and grading of grains.

Agriculture 215. Horticulture. Four hours.

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

Topics: Selection of site, location, etc.; commercial varieties of fruits; fruits adapted to eastern Kentucky; methods of planting the orchard; fertilization; culture; spraying; harvesting; marketing of fruit.

Agriculture 218. Home Agriculture. Three hours.

Purpose: To give the student an understanding of the best practices in agriculture around the home.

Topics: How to make and maintain a lawn; selection of shade trees, their care and repair; care of home fruit trees, grape vines, and small fruits; caring for the backyard poultry flocks; feeding and care of baby chicks and methods of preventing losses; landscaping the home; selection of flowers and their proper location.

Agriculture 237. Poultry Husbandry. Four 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: How to begin the flock; proper housing; incubation; brooding; feeding; management; culling; breeding; marketing; etc.

Agriculture 301. Farm Management. Four hours.

Purpose: To study the basic principles underlying farm business methods applied in various farm enterprises and to study the management of successfully operated farms as compared with those poorly managed.

Topics: Characteristics of good farmers; profits; costs of living; types of farming; maintaining soil fertility; livestock problems; farm labor; farm leases; farm equipment; farm layouts; farm inventories; cost accounts, etc.

Agriculture 315. Small Fruits. Four hours.

Purpose: To make a detailed study of small fruits.

Topics: The planting, care, and management of commercial planting of grapes, strawberries, raspberries, gooseberries, currants, and other small fruits, with special emphasis upon those adapted to eastern Kentucky.

Agriculture 333. Marketing Classes and Breeds of Livestock. Four hours.

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

Topics: Origin and development of various breeds of livestock; packing house by-products; market classes of cattle, sheep, swine, horses, etc.; the importance of these items to the farm; and management under varied conditions.

Agriculture 334. Dairying. Four hours.

Prerequisite: A course in General Agriculture.

Purpose: To familiarize students with the present market in dairy management and the problems of the industry. Emphasis will be laid on the problems of Kentucky.

Topics: Study of the different breeds of dairy cattle and their adaptation to certain conditions; feeding; proper housing; proper pasture and feeds to use; milk production; pasteurization; sterilization; etc.

Agriculture 335. Dairy Cattle Feeding and Management. Four hours.

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

Topics: Study of the dairy breeds; judging dairy cattle; breeding; feeding; calf-raising; pedigrees; advanced registry; dairy association; dairy farm equipment; milk production, etc.

Agriculture 415. Feeds and Feeding. Four hours.

Prerequisite: A course in General Agriculture.

Purpose: To give the student a better understanding of the proper use of feeds for livestock on the farm.

Topics: A study is made of the digestive systems of the various kinds of livestock; the nutritive value and palatability of various feeds; their effect in feeding; calculating nutritive rations; compounding rations for different breeds of livestock and their divisions.

DEPARTMENT OF COMMERCE AND BUSINESS ADMINISTRATION

Mr. Jennings
Mr. Anderson

Miss Rucker
Mr. Alford

REQUIREMENTS:

For a Major without a teacher's certificate:

	Qu. Hrs.
Commerce 381, 382, 383, and 461	16
Electives in Commerce	20
	—
Minimum	36

For a Minor without a teacher's certificate:

Commerce 381, 382, and 383	12
Electives in Commerce	12
	—
Minimum	24

BACHELOR OF SCIENCE IN BUSINESS ADMINISTRATION

This curriculum is planned to meet the needs of the student who wishes to secure training for business. It is designed to provide analysis of the basic principles of business in order that the student will be prepared for more than a mere clerical position upon completion of his college training. Its purpose is to prepare students for junior executive positions; to train them to assume the responsibilities of business ownership and management; and to act in the capacity of business specialists.

COLLEGE AND DEPARTMENTAL REQUIREMENTS

	Qu. Hrs.
English	
English Composition, Literature and	
Public Speaking	22
Science	
Biology, Chemistry, Geology or Physics	16
One Foreign Language	
French, German or Spanish	16
Mathematics	
College Algebra, Mathematics of Finance and	
Statistics	14

Social Science

General Economics, Government of the United States and Principles of Geography	16
Health and Physical Education	6
Electives	30

MAJOR REQUIREMENTS

	Qu. Hrs.
Com. 211 Beginning Typewriting	3
Com. 221 Business English	3
Geog. 211 Economic Geography	4
Ec. 302 Labor Problems	4
Ec. 304 Marketing	4
Ec. 349 Economic History of the U. S.	4
Com. 360 Business Organization	4
Com. 361 Introduction to Business Admin.	4
Com. 381-3 Principles of Accounting	12
Ec. 442 Money and Banking	4
Ec. 443 Investments	4
Com. 450 Salesmanship	4
Com. 461-2 Business Law	8
Com. 464 Office Management	4
Elective (300 or 400 courses in Economics or Commerce)	6
Total.....	192

BACHELOR OF ARTS DEGREE WITH MAJOR OR MINOR
IN COMMERCE*For a Major in Commerce with teacher's certificates:*

Commerce 211, 231, 232, 233, 335 or 336, 362, 381, 382, 449, 461, and 375 or 475	39
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For a Minor in Commerce with teacher's certificate:

Commerce 101, 211, 381, 382, 383, 461, and 475.....	27
or	
Electives from 211, 212, 213, 221, 231, 232, 233, 331, 332, 333, 335, and 375	27

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 MAJOR FOR COMMERCIAL TEACHERS

12 hrs. in Accounting chosen from: 380, 381, 382, and 383

8 hrs. in Materials and Methods chosen from 375, 475, and 478

24 hrs. in Secretarial Subjects chosen from: 211, 212, 213, 231, 232, 233, 331, 332, 333, 335, and 337

28 hrs. in General Business chosen from: 101, 161, 221, 336, 360, 361, 362, 449, 450, 451, 462, 463, and 464

72 hrs. Minimum

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

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 they can qualify for an office position.

For those students we have provided a one and two-year curriculum in which special emphasis is given to typewriting, shorthand, business English, business arithmetic, accounting, office machines, and general secretarial procedure and practice. This work is all on the college level and credit on the degree is given on completion of all courses.

ONE-YEAR SECRETARIAL COURSE

1st Quarter

English Composition
Beginning Typewriting
Beginning Shorthand
Business Arithmetic
Physical Education

2nd Quarter

English Composition
Intermediate Typewriting
Intermediate Shorthand
Office Machines
Physical Education

3rd Quarter

Business English
Advanced Typewriting
Advanced Shorthand
Secretarial Accounting
Physical Education

TWO-YEAR SECRETARIAL AND GENERAL BUSINESS COURSE

FIRST YEAR

1st Quarter

English Composition
Beginning Typewriting
•Beginning Shorthand
Business Arithmetic
Physical Education

2nd Quarter

English Composition
Intermediate Typewriting
•Intermediate Shorthand
Office Machines
Physical Education

3rd Quarter

Business English
•Advanced Typewriting
•Advanced Shorthand
Secretarial Accounting
Physical Education

SECOND YEAR

•Sec. Pro. and Practice
Principles of Economics
Personal Finance
Principles of Accounting

•Sec. Pro. and Practice
Principles of Economics
Introduction to Business
Administration
Principles of Accounting

•Applied Shorthand
Office Machines
Business Organization
Principles of Accounting

* 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, Investments, Money and Banking, Public Finance and Marketing for the Shorthand, Secretarial Procedure and Practice, and Advanced Typewriting courses.

Commerce 101. Business Arithmetic. Four hours.

Three hours of recitation and two hours of problem solving per week. Credit on this course will not be accepted on the mathematics requirement for a degree.

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

Topics: Percentage; discounts; charts and graphs; payments; collection; accounts; inventories; wages and payrolls; freight and express; postage; insurance and taxes.

Commerce 161. Personal Finance. Four 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: Budgets; personal accounts and record keeping; taxes and the preparation of tax returns; bank accounts; establishing reserves; borrowing money; types of investments.

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; simple business letters.

Commerce 212. Intermediate Typewriting. Three 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 development of speed and accuracy.

Commerce 213. Advanced Typewriting. Three 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, 102, Commerce 211 and 212 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. Three 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.

Commerce 232. Intermediate Shorthand. Three hours.

Purpose: To develop speed in taking dictation.

Topics: Special forms; abbreviations; joined and disjoined prefixes and suffixes; phrasing; daily dictation and speed practice designed to give the student a writing speed of from 80 to 100 words per minute.

Commerce 233. Advanced Shorthand. Five hours.

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

Topics: Review of shorthand principles, phrasing, abbreviations and special forms; high frequency word drill; vocabulary building; daily speed practice designed to increase writing speed to better than 100 words per minute; development of transcription skills for production of mailable transcripts.

Commerce 331. Secretarial Procedure and Practice. Four hours.

Prerequisites: Commerce 211, 212, 231, 232, and 233 or equivalent.

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 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, office machines and filing; daily dictation and further transcription work needed to increase both shorthand and transcription speed to employment standards.

Commerce 332. Secretarial Procedure and Practice. Four hours.

This course is a continuation of Commerce 331.

Commerce 333. Applied Shorthand. Two hours.

Prerequisites: Commerce 211, 212, 231, 232 and 233.

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.

Commerce 335. Secretarial Office Machines. Three 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: Dictation machines: dictating, transcribing, and shaving units; duplicating machines: Multigraph, Mimeograph, Ditto or Hecktograph, and the Mimeoscope; addressing machine; and filing systems and their application.

Commerce 336. Clerical Office Machines. Three 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 machine; the full-keyboard adding listing machine; the key-driven calculator; the crank-driven calculator; and the bookkeeping machine.

Commerce 337A, 337B, 337C, 337D, 337E, 337F, Office Machines. Two hours.

Prerequisite to Commerce 337A and 337B: Commerce 335.

Prerequisite to Commerce 337C and 337D: Commerce 336.

Prerequisite to Commerce 337E; Commerce 380 or 381, 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: 337A The Dictaphone
337B Duplicating Machines
337C Crank Driven Calculators
337D Key Driven Calculators
337E Bookkeeping Machine
337F Vari-Typer

Commerce 360. Business Organization. Four 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. Four hours.

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

Topics: Accounting records and their use; use of statistics in business; organization; production methods, problems and costs; risks and their control; labor relations and labor

problems; marketing methods and problems; financing problems; business taxes and industrial and economic planning.

Commerce 362. Consumer Education. Four hours.

Purpose: To give the student a general understanding of the economic problems of the consumer so that he may be more intelligent in the use of his income.

Topics: Management of wealth and income; insurance; renting vs. owning your home; installment purchasing; buying and selling relations; advertising; agencies for the protection of the consumer; practical studies in buying.

Commerce 375. Materials and Methods in Secretarial Subjects. Four hours.

Prerequisites: Commerce 211, 212 or equivalent, 231, 232, 233, and 331.

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 texts; determination of standards; supplementary readings and collateral material available for the teachers; testing.

Commerce 380. Secretarial Accounting. Four hours.

Prerequisite: Commerce 101.

Purpose: To study the types of accounting reports and records for the small business and the professions, together with the business practice involved in those cases where the secretary ordinarily keeps the records.

Topics: Business forms, household accounts; accounts of small shops; preparation of income tax reports; accounting for the small professions; church, school, and club accounts and 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.

Topics: Meaning and purpose of accounting; the balance sheet; the statement of profit and loss; books of original entry;

special journals; adjusting and closing entries; controlling accounts; and business practices and procedures.

Commerce 382. Principles of Accounting. Four hours.

Purpose: To study the principles of accounting as applied to the partnership and corporate forms of business organizations.

Topics: Partnership accounting problems; voucher systems; nature and characteristics of the corporation; corporate accounts and records; corporate earnings and surplus; and corporation securities.

Commerce 383. Principles of Accounting. Four hours.

Purpose: To develop further an understanding of the principles of accounting as applied to the corporate form of business organization.

Topics: Accounting for manufacturing firms; cost accounting procedures; departmental and branch accounting; consolidated statements; budgets; and analysis of financial statements.

Commerce 449. Seminar in Commerce. Two hours.

Required course for all commerce majors in their senior year. 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. Four 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 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 executes at least one sales talk before the class during the term.

Commerce 451. Retail Merchandising. Four 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. Four 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; sales; partnerships; corporations; personal and real property.

Commerce 462. Business Law. Four hours.

This course is a continuation of Commerce 461.

Commerce 463. Corporation Finance. Four hours.

Purpose: To acquaint the students with the problems of finance, administration, and reorganization of business.

Topics: Forms of business organizations; corporation management; financing business by means of stock; financing through borrowed capital; management of surplus; working capital requirements; investment of funds; business failures and reorganizations.

Commerce 464. Office Management. Four 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. Four 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. Four 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 education personnel; source materials and teaching procedures and practices in distributive education; distributive education and its relation to business education.

Commerce 480. Cost Accounting. Three hours.

Purpose: To show the value of and procedures used in accounting for business 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. Three 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.

DEPARTMENT OF ECONOMICS AND SOCIOLOGY

Mr. Carey

Mr. Finsel

REQUIREMENTS:

<i>For a Major in Economics and Sociology:</i>	Qu. Hrs.
Economics 201, 202, 349	12
Sociology 180, 201, 205	12
Advanced credit in Economics or Sociology	12
Economics 471 or Sociology 471	3 or 4
	—
Total	39 or 40

<i>For a Minor in Economics and Sociology:</i>	
Economics 201, 202	8
Sociology 180, 201	8
Advanced credit in Economics or Sociology	8
	—
Total	24

<i>For a Major in Sociology:</i>	
Sociology 180, 201, 205, 302, 305, 403, 471	28
Additional advanced credit in Sociology	12
	—
Total	40

<i>For a Minor in Sociology:</i>	
Sociology 180, 201, 205, 302	16
Advanced credit in Sociology	8
	—
Total	24

AREA MAJOR FOR SOCIAL SCIENCE TEACHERS

Total requirements in history, political science, sociology, economics and geography	72
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History (minimum 28 hours)

History 241, 242, 331, 332	16
American History in 300's and 400's	8
Elective in advanced history courses	4
	—
Total	28

Political Science (minimum 8 hours)

Political Science 241	4
One advanced course in 300's or 400's	4
	—
Total	8

Sociology (minimum 8 hours)

Sociology 201	4
One advanced course in 300's or 400's	4
	—
Total.....	8

Economics (minimum 8 hours)

Economics 201	4
One advanced course in 300's and 400's	4
	—
Total.....	8

Geography (minimum 8 hours)

Geography 100	4
One course from the following: 241, 247, 331, 383	4
	—
Total.....	8

The remaining 12 hours are electives and may be chosen

from any of the social sciences	12
	—
Grand Total.....	72

DESCRIPTION OF COURSES

Economics 180. Agricultural Economics. Four hours.

Purpose: To give students a practical knowledge of such subjects as rural credits and the means of securing the possession of land; land, labor, and capital; the evolution of farm machinery; tenancy, share rent, cash rent; cooperative societies; such farm organizations as the grange, farmers' unions, farm bureaus, and federal farm loan banks.

Topics: The factors of economic production and their properties; the guiding principles in the organization of the farm; the value of farm lands; and tenancy and land ownership in the United States.

Economics 200. General Economics. Four hours.

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

Economics 201. General Economics. Four hours.

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. Four hours.

This course is a continuation of Economics 201.

Economics 302. Labor Problems. Four hours.

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. Four 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. Four hours.

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 349. Economic History of the United States. Four 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 441. Public Finance. Four 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. Four 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. Four 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 483. Development of Economic Thought. Four 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.

Economics 471. Seminar. One hour per quarter.

Prerequisites: Twenty-four 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.

SOCIOLOGY

Sociology 180. Rural Sociology. Four 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. Four 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 205. Social Institutions. Four 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 301. Child Welfare. Four hours.

Purpose: To impress upon the future citizen his duty to the helpless child; to teach the economic importance as well as ethical obligation in the conservation of child life; to urge the necessity for wholesome food, proper playgrounds, and sanitary conditions for our boys and girls, and to stress the importance of proper educational advantages in the prevention of delinquency in our dependent and underprivileged children.

Topics: Conservation of child life; health and physique; training and education; child labor; juvenile delinquency; problems of dependent children; the child welfare movement.

Sociology 302. Population Problems. Four hours.

Purpose: To provide insights into population trends within the United States based on the socio-cultural approach. To investigate social and cultural forces operating in reproductive behavior, in mortality, in sex, age, and race composition,

in population distribution, and in international and internal migration.

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; international and internal migration; national population policy.

Sociology 305. Introductory Anthropology. Four hours.

Purpose: To acquire an elementary knowledge and the essential facts of basic social groups and of the social and cultural processes found in them. Stress is laid on the world's simplest and most primitive tribes and peoples in order to link up the social organizations and cultures of those peoples with those of the higher civilizations, past and present.

Topics: Cultural horizons and patterns of man's development; primitive hunting, domestication of animals, farming, trade and transportation, art, social institutions, social organization, government and law, religion and magic, knowledge and science, and others. Monographic sketches will give well rounded conceptions of the actual modes of life of a number of social groups in which basic processes are seen in operation. These groups are: native Australians, Eskimos, the Hopi and other American Indian tribes, native African negro tribes, tribes of the South Seas, and others. Survivals in modern civilizations will be traced to their primitive sources. Recommended as basic to all social sciences.

Sociology 384. World Religions. Four hours.

Purpose: To bring before the student the content, attendant literature, and cultural and social background of the more widely known and recognized religions of the world, both past and present. Stress is placed on the role of religions as methods of social control in their respective social and cultural environments. A comparison of the world's great living religions is given as a summary of the course.

Topics: Religions of India: Vedic religions, Brahmanism, Buddhism, Hinduism; religions of China: Confucianism; Taoism, Buddhist forms; Japan, Shinto; Persia, Zoroastrianism; Judaism, Christianity, Muhammadanism, comparative religions.

Sociology 401. Criminology. Four 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. Four hours.

Purpose: To study immigration as a world movement in all ages; to study immigration as it affects the United States socially, economically, and religiously—its effects upon labor, its effects upon racial questions, and its effects upon the American standards of living.

Topics: Free immigration; state regulation; federal control; causes and effects of immigration; social and economic conditions of arriving immigrants; the effects upon population and standards of living; assimilation; amalgamation; Americanization of the immigrant.

Sociology 403. The Family. Four 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; child interaction; new status of women; family disorganization; determinants of family size; conservation of family values; future of the family.

Sociology 405. Advanced Anthropology. Four hours.

Purpose: Designed to cover the physical, linguistic and cultural development of man from his primeval beginnings of the stone ages through his great fundamental inventions and

achievements. Stress is placed on modern racial and linguistic classifications; beginnings of human culture; culture centers of the Old World and their influences on contemporary and later civilizations; American Indian cultures and their significance; culture theory; independent invention; diffusion; convergence; archaeological discovery and the social sciences. Recommended as basic to all social sciences.

Sociology 410. Fundamental Configurations of Culture. Four hours.

Purpose: To view as forms, or configurations, some of the world's great cultures and civilizations which functioned as cradles of our modern western civilizations, and to make analytic studies of the parts of which the configurations were composed. To illustrate the earlier foundations of modern cultures and institutions in order to realize the genetic relationships transmitted from them.

Topics: Cultural configurations of Egypt, Babylonia, Assyria, Palestine, India, China, Greece, Rome. Analysis of configurations. Applications of analyses to modern western cultures and civilizations.

Sociology 471. Seminar. Sociological Theory. Four hours.

Individual research in sociology. One to four hours.

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

Topics: Social philosophies of Plato, Aristotle, Roman thinkers, Medieval thinkers; influence of the Church; David Hume; German philosophies; racial, geographic and economic philosophies; the later social movements. Sociological theory, problems and method.

Individual research problems may be arranged with the staff by qualified students. Credit hours for research work will depend on the nature of the individual problem, and on the quality and quantity of achievement by the student.

DEPARTMENT OF EDUCATION

Mr. Shafer	Mr. VanAntwerp	Mrs. Graves
Mr. Lappin	Miss Neal	Mr. Jackson
Miss Evans	Mrs. Giles	Miss Roome
Miss Findlay	Mrs. Day	Miss Thompson
Miss Moore	Mr. George Young	Mr. Denney
Miss Nollau		Miss Minish

For the guidance of those students who are working for certificates on different levels and who may be in doubt as to what courses count on the various certificates, the courses offered in the department are classified under four headings: general education, elementary education, secondary education, and administration and supervision.

GENERAL EDUCATION

	Qu. Hrs.
153 General Psychology	4
154 Educational Psychology	4
360 History of Education	4
383 Educational Statistics	4
483 Audio-Visual Instruction	4
484 Philosophy of Education	4
486 Adult Education	4

ELEMENTARY EDUCATION

121 Teaching of Arithmetic	4
220 Fundamentals of Elementary Education	8
226 Teaching Reading in the Elementary School	4
320 Improvement of Instruction in the Elementary School	4
325 Supervised Student Teaching	6
350 The Psychology of Childhood	4
423 The Elementary School Curriculum	4
425 Supervised Student Teaching	6
426 Overview of the Elementary School in Action	3
Workshop in Elementary Education	2-16

SECONDARY EDUCATION

356 Guidance and Counseling	4
370 Principles of Secondary Education	4
374 Improvement of Instruction in the Secondary School	4

375	Supervised Student Teaching	6
376	Clinical and Developmental Reading in the Secondary School	4
389	Extra-Curricular Activities	4
454	The Psychology of Adolescence	4
471	Tests and Measurements in the Secondary School	4
472	Fundamentals of Teaching in the Secondary School	4
475	Supervised Student Teaching	6
476	Overview of the Secondary School in Action	3

ADMINISTRATION AND SUPERVISION

426	Pupil Accounting	4
451	Public School Administration and Supervision	4
452	Elementary School Administration and Supervision	4
493	High School Administration and Supervision	4

GRADUATE COURSES

520	Research Problems in Elementary Education	4
523	Learning in the Elementary School	4
526	Investigations in Reading	4
528	Legal Basis of the Public Schools	4
554	Advanced Educational Psychology	4
570	Research Problems in Secondary Education	4
571	Graduate Seminar in Education	1
573	Modern Secondary School Curricula	4
580	Democracy and Education	4
584	School Finance	4
590	Research Methods in Education	2
598	Thesis Writing	4-5

GENERAL EDUCATION

Education 153. General Psychology. Four 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. Four 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 360. History of Education. Four 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 383. Educational Statistics. Four 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 483. Audio-Visual Instruction. Four 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 484. Philosophy of Education. Four hours.

Prerequisite: Twelve 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. Four hours.

Purpose: To assist students in giving the adult classes a better perspective and a broader basis for living a more enriched life.

Topics: The ways and means of teaching adults the fundamentals in the tool subjects; principles consonant with the idea of democracy are stressed in such subjects as civics, geography, history, and elementary economics; some attention is also given to the arts and crafts and to nature study.

ELEMENTARY EDUCATION

Education 121. Teaching of Arithmetic. Four hours.

Purpose: This course is designed to give the elementary teacher two kinds of training: (1) the professional point of view with respect to the methodology of the subject, and (2) the methods aspect must be predicated upon one's ability to do the fundamental skills and knowledge required for the elementary school teacher. This course, in other words, is primarily a methods course but its foundations must be laid squarely upon a definite amount of desirable content.

Topics: The following fields of thought will be covered: (1) Some time will be given over to the computational and informational side of arithmetic. (2) A thorough study of the essential concepts of the subject will be made. (3) Frequent observations will be required in order to evaluate the best modern practices concerning the teaching of arithmetic.

Education 220. Fundamentals of Elementary Education. Eight hours.

Prerequisite: Educational or General Psychology. (Except for workshop groups.)

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 them 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; 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 226. Teaching Reading in the Elementary School. Four 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. Four 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 325. Supervised Student Teaching. Six 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 48 quarter hours of required work in the two-year elementary curriculum; e. at least one quarter 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 36 fifty-minute periods. 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 cooperatively 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 four-hour block.

Education 350. The Psychology of Childhood. Four 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 423. The Elementary School Curriculum. Four hours.

Prerequisite: Twelve hours in education.

Purpose: To acquaint the student with the background of our present curricula; to determine what principles should obtain in the selection, differentiation and integration of subject materials; to stress the need for constant revision and re-evaluation of the content of the curriculum.

Topics: Setting up and defining the aims of education; consideration of the important issues in curriculum making; analysis of techniques involved; and the evaluation of criteria in curriculum making.

Education 425. Supervised Student Teaching. Six 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 six hours of student teaching at the elementary level. This course should be taken during the senior year.

Education 426. Overview of the Elementary School in Action. Three hours.

Purpose: This course is designed to follow all other courses in the preparation of elementary teachers including Supervised Student Teaching, and is intended to aid prospective teachers in rounding out their understanding of the total school instead of viewing the separate school subjects and activities in isolation.

Topics: The elementary school curriculum through the eyes of the administrator and supervisor; extra-curricular activities; the elementary teacher's place in professional growth and research projects, evaluation of the school, and the PTA; advanced planning; techniques of cooperating with other teachers in the improvement of the total elementary school program; obtaining a position and getting along in the school community.

***Education. Workshop in Elementary Education. Two-sixteen 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

*This workshop has no designated number. It may be used to satisfy requirements in education towards certificates or degrees.

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, PTA, sources of free and inexpensive materials, use of duplicating devices, etc.

SECONDARY EDUCATION

Education 356. Guidance and Counseling. Four hours.

Prerequisites: Eight hours in 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.

Note: This is an elective course in secondary education.

Education 370. Principles of Secondary Education. Four hours.

Prerequisite: Eight hours of education or junior standing.

Purpose: This course is designed to provide an introduction to the field of secondary education; to study the fundamental principles of theory and practice in secondary education; to study the history and development of the secondary schools as well as their present status from the standpoint of organization, population, enrollment, pupils, teachers, types of teaching, and school officials; and to indicate future trends in secondary education.

Topics: (1) To treat the rise and development of the secondary schools in America and other countries; (2) to consider the problem of articulation between elementary and secondary schools and between the secondary schools and higher institutions; (3) to appraise the objectives and functions of secondary education; (4) to attempt to evaluate the social principles evolved in the secondary schools; (5) to emphasize the physical and mental traits of pupils and their individual differences; (6) to determine programs of studies by means of subject-value criteria; (7) to compare and weigh various curriculums with respect to their aims; and (8) to acquaint students with the terminologies of secondary education.

Education 374. Improvement of Instruction in the Secondary School. Four 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. Six 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, including Principles of Secondary Education and Fundamentals of Secondary Education; e. completion of a total of 135 hours of work; f. at least one quarter 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 36 fifty-minute periods. 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 four-hour block.

Education 376. Clinical and Developmental Reading in the Secondary School. Four 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.

Note: This course is **not** designed primarily for the teachers of English.

Education 389. Extra-Curricular Activities. Four 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; cardinal 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 454. The Psychology of Adolescence. Four hours.

Prerequisite: Usually a course in general or educational psychology will be required.

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 rational 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.

Education 471. Tests and Measurements in the Secondary School. Four hours.

Prerequisite: Elementary psychology or the equivalent.

Purpose: To acquaint students with the philosophy, procedure and techniques of testing and measuring in general, with a special application to these processes in the secondary schools. Various secondary school tests will be studied with respect to their use, purpose, and comparative values.

Topics: Development of standardized and non-standardized tests and their appraisals; interpretation of scores, relation-

ships, and other factorial analyses; construction and evaluation of items in various measuring instruments; studying the types, methods and results of testing; analysis of some persistent problems in the field of tests and measurements.

Education 472. Fundamentals of Teaching in the Secondary Schools. Four hours.

Prerequisites: Eight hours of education or senior-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 quarters.

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. Six hours.

Prerequisites: Education 375 and its prerequisites.

Purpose: This course is a continuation of Education 375.

Education 476. Overview of the Secondary School in Action. Three hours.

Purpose: This course is designed to follow all other undergraduate courses in education including Supervised Student Teaching; and is designed to aid prospective high school teachers in rounding out their over-all view of total activities making up the secondary school instead of viewing the various activities separately and in isolation.

Topics: The place of the teacher in curriculum building, schedule-making, school plant planning and managing, school evaluation, guidance and counseling, extra-curricular activi-

ties, and in viewing the operation of the school through the eyes of the principal and supervisor.

Note: This is not to be confused with classes designed primarily for school administrators or supervisors since it is intended only for teachers.

ADMINISTRATION AND SUPERVISION

Education 426. Pupil Accounting. Four 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 451. Public School Administration and Supervision. Four hours.

Prerequisite: Fifty hours of standard college work, at least twelve units 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. Four hours.

Prerequisite: Fifty 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 teachers 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 493. High School Administration and Supervision. Four hours.

Prerequisites: Fifty hours of standard college work, at least twelve hours of which must be 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.

GRADUATE COURSES

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

Prerequisites: Education 154 and Education 220 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 526. Investigations in Reading. Four hours.

Prerequisite: Education 226.

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. Four 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. Advanced Educational Psychology. Four hours.

Prerequisites: No one will be admitted who has not already earned four quarter hours in General or Educational Psychology with a mark of A or B. Anyone with a lower mark

will be required to take another undergraduate course to qualify.

Purpose: To continue the study begun in the first course.

Topics: Special emphasis will be placed on motor, ideational and emotional learning. Some attention will be given to modern educational theories. An attempt will be made to link the work of the course with the career of the particular student, so that the problems and literature studied will depend on the personnel of the group.

Education 570. Research Problems in Secondary Education. Four 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.

Education 573. Modern Secondary School Curricula. Four 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. Four 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. Four 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.

DEPARTMENT OF ENGLISH

Mr. Doering

Mr. Banks

Miss Humphrey

Mr. Bradley

Mr. Ettleson

REQUIREMENTS:

For any degree or certificate, and general courses for majors and minors:

	Qu. Hrs.
Composition 101, 102, 103	9
Two literature courses from 200 to 290	6
Children's Literature—required for elementary certificates	4
Kentucky Literature and Folklore—recommended for the Standard Elementary and Provisional High School Certificates	3
Historical Grammar—recommended for the Provisional High School Certificate	3
<i>For a Major: (In addition to freshman-sophomore courses)</i>	
Required: English 450	2
One course selected from 363, 435, or 453	
One course selected from 335, 338, or 339	
One course selected from 436, or 437	
Total for a Major (with electives)	46-48
<i>For a Minor: (In addition to freshman-sophomore courses)</i>	
Required: English 303 and 460	6
Elective from "300" or "400" groups	6-8
Total for a Minor (with electives)	30-32

English 101. English Composition. Three hours. Required of all students entering college, except those excused because of superior performance on the placement test.

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 sentence structure, with functional emphasis upon the usefulness of English language patterns as tools of communication; reading of fairly simple but varied materials; frequent short compositions, expressing the student's own experience in correct and interesting English.

English 102. English Composition. Three hours. Required of all college students.

Prerequisite: English 101, or exemption therefrom as stated above.

Purpose: (a) To develop confidence and correctness in speech; (b) to maintain the writing skills developed in English 101.

Topics: Frequent oral composition, both extemporaneous and prepared; reading aloud; conversation and informal argument; reports, summaries; synopses; original talks; continued practice in writing.

English 103. English Composition. Three hours. Required of all college students.

Prerequisite: English 102.

Purpose: To develop competence in understanding and in expressing ideas.

Topics: Reading for comprehension; vocabulary study; precise writing; paragraphing; outlining; many short and a few longer compositions, requiring the student to exhibit reasonable grasp of ideas and some skill in developing and communicating them.

English 226. Literature for Children. Four 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 tests.

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. Three hours.

Prerequisite: English 103.

Purpose: To acquaint the student with the important Ken-

tucky 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 Cawain to Elizabeth Maddox Roberts and Jesse Stuart. Kentucky ballads and folklore.

English 280. Elementary Principles of Journalism. Four 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 and 103 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. Three hours.

Prerequisite: English 103.

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. Three hours.

Prerequisite: English 103.

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. Three hours. (Formerly Introduction to Shakespeare.)

Prerequisite: English 103.

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. Three hours.

Prerequisite: English 103.

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 1914-1946. Three hours.

Prerequisite: English 103.

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. Three hours.

Prerequisite: English 103.

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. Three hours.

Prerequisites: English 101, 102, and 103.

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 336. Tennyson and Browning. Four hours.

Prerequisites: English 103, 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. Four hours.

Prerequisites: English 103, 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. Four hours.

Prerequisites: English 103, 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. Four hours.

Prerequisites: English 103, 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 363. History of the Theatre and Drama. Three hours.

Prerequisites: English 103, 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. Four hours. (Formerly English 286.)

Prerequisite: English 103.

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 Novel in England and America. Four hours.

Prerequisites: English 103, 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 the present.

English 435. Shakespeare. Four hours.

Prerequisite: English 103, 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 436. Seventeenth Century Literature. Three hours.
(Formerly Milton.)

Prerequisites: English 103 and 9 hours' credit in literature.

Purpose: To take account of the political and moral trends of the period as reflected in the writings of a few conspicuous authors and to afford acquaintance with those prominent literary figures who mirror the reaction to Elizabethan modes and patterns and set the stage for the reaction in writing that follows in the next century. With all this there will be an attempt to weave the works of minor writers into the dual literary design composed by Milton and Dryden.

Topics: Selected prose and poetry of the major writers of the period. Literary, political, and religious backgrounds. Investigative papers and critical analyses.

English 438. Neo-Classic Thought. Three hours.

Prerequisite: Completion of sophomore requirements in English.

Purpose: To examine the literary trends in eighteenth century England, emphasizing Pope, Addison, Johnson, Goldsmith, Burns, and the minor pre-Romantics.

Topics: The background of Classicism; the genesis and development of Romanticism; selected readings in the prose and poetry of the period; investigative papers.

English 439. Victorian Prose. Four hours.

Prerequisites: English 103, and 9 hours' credit in literature.

Purpose: To acquaint the student with the approaches of Victorian thinkers to modern social and cultural problems.

Topics: Selections from the principal essayists with chief emphasis on Carlyle, Newman, Ruskin, Arnold, Huxley, and Morris. No fiction is included.

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

Prerequisites: Senior classification, and at least 30 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. Four hours. (Formerly English 353.)

Prerequisites: English 103, 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. Historical Grammar. Three hours. (Formerly History of the English Language.)

Prerequisites: Completion of sophomore requirements in English. Required of English minors.

Purpose: To give the prospective teacher a command of functional grammar.

Topics: Grammar and the development of its forms.

English 493. Comparative Study of the Arts. Three hours.

Prerequisites: Completion of sophomore requirements in English.

Purpose: To correlate music, literature, painting, and the minor arts, and to enhance the students' appreciation of beauty.

Topics: Great narratives will be studied as they are interpreted in the various arts. Some of the themes to be examined are Prometheus, Faust, Peer Gynt, Jesse James, Samson and Delilah, Porgy and Bess, The West Wind, Arabian

Nights, Salome, etc. Action, form, style, nature description, the supernatural, realism, and social intent will be considered.

English 501. Literary Criticism. Three hours.

Prerequisites: For graduate students only.

Purpose: To acquaint the student with literary theory from Plato to the present; to enable him to formulate sound judgements on his own reading.

Topics: The chief theories of tragedy, comedy, epic poetry, and the like from ancient to modern times. Readings, research papers, and seminar discussion.

SPEECH AND DRAMATICS

English 181. Public Speaking. Four hours. An elementary course.

This course will count as an elective toward any certificate or degree, but not as a substitute for a required composition or literary course.

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

Topics: Rudimentary platform principles; posture, movement, basic gestures, audience contact; enunciation, phrasing; much actual practice in speaking, first with famous speeches and literary passages, later in the preparation and delivery of original speeches.

English 182. Corrective Speech. Three hours.

Purpose: To present the student with an opportunity to hear, 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, tone flexibility; tone resonance; tone quality; anatomy of the thorax, neck, and head; space breathing, tongue coordination and mental timing; speech pathology and its correction.

English 283. Techniques of Dramatic Production. Three hours.

Purpose: To give practice in the art of producing, direct-

ing, selecting, acting, writing, rewriting, and consummating the finished production.

Topics: Economics and expediences in play selecting; the one act and three act plays; set construction; techniques of the comedy and drama, and tragedy; special effects, lighting and musical incidentals; methods in choosing and directing the players; rehearsals and performances; the stage and scenery; present day productions and their relation to cinema arts; stage business, types of directorial approaches, current events in dramatic productions.

English 382. Debate and Argumentation. Three hours.

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

Topics: Relation of speaker and the audience; discussions, debates, and open forums; parliamentary practice; decorums in presentations; speeches—preparation and delivery; choice of topics in argumentation; the art of acquiring spontaneity; impromptu attack through spacing and timing; a study of outstanding speeches; the art of acquiring the emotional summit; reasoning and summing; humor as a relief device.

English 383. Dramatics and Acting. Three hours.

Purpose: To acquaint the student with and to give him a well rounded beginning in the theatre arts.

Topics: Readings in the play types; the art of deceptive and normal make-up; speech vocabulary building; oral readings and word illumination; observation and imagination; pantomime and gesture; character portrayal; drama appreciation; plays and players—yesterday and today; current events in the stage, cinema, and radio; the physical stage and its devices; outlets for vocational possibilities.

English 384. Radio Workshop. Four hours.

Purpose: To acquaint the student with and to give practice in the methods and techniques of radio announcing, acting, writing, and its allied procedures.

Topics: Things an announcer should know; staff and freelance work; voice production and speech; microphone technique; timing and spacing; radio terminology; commercial

copy; special events; narration; news reporting; outlets and opportunities for radio work; work of the program director; studio managership; trade publications.

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, and are assigned to sections of English 101 according to the ability so discovered. In determining which days a student shall meet his English class, *the results of this test must take precedence over the student's preference.*

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 quarter, 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 or 103, or both.

DEPARTMENT OF MODERN FOREIGN LANGUAGES

Miss Bach

The Department of Modern Foreign Languages offers courses in French, German, and Spanish. Its purpose is three-fold: first, 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; second, to promote the cultural goal by introducing students to the rich field of foreign literatures and civilizations; and third, to help students understand foreign peoples, a most important item in the foreign policy of the United States, and our relations with other nations.

In accordance with present tendencies, understanding and speaking of the languages will be more emphasized than before, but without neglecting reading ability. When once acquired, the reading knowledge of a language can be kept alive indefinitely by giving a few hours every month to the reading of newspapers, periodicals, and books written in the language.

FRENCH

REQUIREMENTS:

<i>For a Major:</i>	Qu. Hrs.
Prerequisites: French 101 and 102	
Required: French 103, 201, 202, 203, or the equivalent	16
Elective: French 306 and courses above 400	20
Total.....	36
<i>For a Minor:</i>	
Prerequisites: French 101 and 102	
Required: French 103, 201, 202, 203, or the equivalent	16
Elective: Advanced courses in 300's and 400's	8
Total.....	24

GERMAN

REQUIREMENTS:

<i>For a Minor:</i>	Qu. Hrs.
Prerequisites: German 101 and 102	
Required: German 103, 201, 202, 203	16
Elective: Advanced courses in 300's and 400's	8
Total.....	24

DESCRIPTION OF COURSES

FRENCH

French 101. Beginning French. Four 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. Four hours.

This course is a continuation of French 101.

French 103. Beginning French. Four hours.

This course is a continuation of French 102.

French 201. Intermediate French. Four 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. Four hours.

This course is a continuation of French 201.

French 203. Intermediate French. Four hours.

This course is a continuation of French 202.

French 305. French Conversation and Composition. Four hours.

Purpose: To help students, especially prospective teachers, acquire the ability of writing and speaking simple French.

French 306. Rapid Reading. Four 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, 103, 201, 202, 203, 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.

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.

Purpose: To acquaint students with recent French literature.

Topics: Later works of 19th century writers like France, Materlink, Rostand, Rolland, Gide, Proust, Estaunie, Regnier, etc.

SPANISH

Spanish 101. Beginning Spanish. Four 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. Four hours.

This course is a continuation of Spanish 101.

Spanish 103. Beginning Spanish. Four hours.

This course is a continuation of Spanish 102.

Spanish 201. Intermediate Spanish. Four 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. Four hours.

This course is a continuation of Spanish 201.

Spanish 203. Intermediate Spanish. Four hours.

This course is a continuation of Spanish 202.

GERMAN**German 101. Beginning German. Four 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. Four hours.

This course is a continuation of German 101.

German 103. Beginning German. Four hours.

This course is a continuation of German 102.

German 201. Intermediate German. Four 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. Four hours.

This course is a continuation of German 201.

German 203. Intermediate German. Four hours.

This course is a continuation of German 202.

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 1850. 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; recent tendencies in German literature.

DEPARTMENT OF HISTORY AND POLITICAL SCIENCE

Mr. Fowler

Mr. Wells

REQUIREMENTS:

	Qu. Hrs.
<i>Major in History:</i>	
History 131, 132, 241, 242, 331, 332, 471	26
American History in 300's and 400's	12
	38
<i>Minor in History:</i>	
Either History 131 and 132 or History 331 and 332	8
American History, preferably in advanced courses	12
Elective	4
	24
<i>Major in Political Science:</i>	
Political Science 241, 242, 333, 343, 446, 447, 448, 450	32
Elective	4
	36
<i>Minor in Political Science:</i>	
Political Science 141, 241, 242, 450	16
Elective in 300's and 400's	8
	24
<i>Major in History and Political Science:</i>	
History 131 and 132 or History 331 and 332	8
American History, preferably in advanced courses	12
Political Science 241, 242	8
Electives in Political Science in 300's or 400's	16
	44

AREA MAJOR FOR SOCIAL SCIENCE TEACHERS

	Qu. Hrs.
Total requirements in history, political science, sociology, economics, and geography	72
<i>History (minimum 28 hours)</i>	
History 241, 242, 331, 332	16
American History in 300's and 400's	8
Elective in advanced history courses	4
	28
Total.....	28

Political Science (minimum 8 hours)

Political Science 241	4
One advanced course in 300's or 400's	4
Total.....	8

Sociology (minimum 8 hours)

Sociology 201	4
One advanced course in 300's or 400's	4
Total.....	8

Economics (minimum 8 hours)

Economics 201	4
One advanced course in 300's or 400's	4
Total.....	8

Geography (minimum 8 hours)

Geography 100	4
One course from the following: 241, 247, 331, 383	4
Total.....	8

The remaining 12 hours are electives and may be chosen from any one or more of these fields	12
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Grand Total.....	72
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DESCRIPTION OF COURSES

History 131. History of Civilization. Four hours.

Purpose: To give a view of the early development of civilization.

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. The History of Civilization. Four hours.

Prerequisite: History 131.

Purpose: To continue the study of civilization to the present day.

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

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

Prerequisite: Sophomore standing.

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; and the expansion of territory; the compromise of 1850; and the Civil War.

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

Prerequisite: Sophomore standing.

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, 1500-1830. Four hours.

Prerequisite: Eight 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 European History, 1830 to the Present. Four hours.

Prerequisite: Eight 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 338. The History of Great Britain and the British Commonwealth of Nations. Four hours.

Prerequisite: Eight 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. Four hours.

See Department of Economics and Sociology.

History 344. The History of Kentucky. Four hours.

Prerequisite: Eight quarter 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. Four 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; the Commonwealth of the Philippines; "Manifest Destiny" in Greater America; The Pacific Area and Its Future Importance to the United States; and our Policies for the Future.

History 346. Colonial Latin-America. Four 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. Four 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 349. Economic History of the United States. Four hours.

See Department of Economics and Sociology.

History 360. History of the South from Colonial Days to the Present. Four hours.

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

Purpose: To introduce the student, presumably from the South, to those problems—social, economic, and political—which are peculiar to his region, plus an intensive historical inquiry as to their origin.

Topics: Physiographic factors and natural resources of the South; the exploration and colonization of the South; society in the pre-revolutionary South; the South in the Revolutionary War; the South in the government of the nation before and after the Civil War; population, industry, agriculture and transportation in the ante-bellum South; the strengths and weaknesses of the South upon the eve and during the Civil War; the Reconstruction Era; the racial question; the political solidity of the South—its strengths and weaknesses; agriculture and manufacturing in the South since the Civil War; health and education in the South; the T. V. A. experiment and its promise.

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

Prerequisite: Junior standing and at least twelve 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. Four 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 and the formation of an independent government.

History 443. Sectional Controversies. Four hours.

Prerequisites: History 241 and at least junior standing.

Purpose: To make an intensive study of the sectional controversies that led to the Civil War.

Topics: Early development of sectionalism in the constitutional convention; economic development of sections; controversies over the U. S. Bank; tariff; westward expansion; slavery; struggles for the political balance of power; agrarianism versus industrialism.

History 445. History of the United States 1900 to the Present. Four hours.

Prerequisite: 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; immi-

gration; the trend of political reform; foreign contracts; the part of the United States in the first World War; problems of reconstruction after the war; industrial depressions.

History 446. American Foreign Relations. Four hours.

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

Purpose: To acquaint the student with the major developments in our relations with other countries with special stress upon that period from 1890 to the present.

Topics: The French alliance of 1778; the purchase of Louisiana; the War of 1812 and its effects; the Monroe Doctrine; the Mexican embroglio; the Maximilian episode; the Alabama affair and the Geneva arbitrations; the period of somnolence; America's beginnings in imperialism; Blaine and Pan-Americanism; the Spanish-American War and its repercussions; the acquisition of the Panama Canal Zone; Roosevelt's "Big Stick" policy; the United States enters the Orient; the first World War, Wilson and the peace; America goes isolationistic; the Good Neighbor policy; the rise of the dictators; America enters World War II; the Atlantic Charter and other agreements.

History 450. World History: 1914 to the Present. Four hours.

Prerequisite: Junior standing.

Purpose: To give the student a comprehensive idea of the recent internal history of every nation and of its relation to the rest of the world.

Topics: World War I; the treaty of peace; the attempts to perpetuate peace among the nations, and to solve world-wide economic and social problems; the history of internal movements within the states; the rise of dictatorships; the status of democracy; the Second World War with its far-reaching ramifications. The official advent of the British Commonwealth of Nations will receive special attention.

History 471. Seminar. Two hours.

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. Four hours.

Purpose: To give the student a knowledge of the fundamental problems involved in citizenship and to build a foundation for the study of American government.

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. Four 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. Four hours.

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

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. Four hours.

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. Four 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. Three 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 441. Public Finance. Four hours.

Prerequisites: Political Science 241 and 242, Economics 201 and 202.

See Department of Economics and Sociology.

Political Science 446. Constitutional Law in the United States Before 1875. Four hours.

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. Constitutional Law in the United States After 1875. Four hours.

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. Four hours.

Prerequisites: Political Science 241 and 242.

Purpose: To study public administration as a functional part of the American 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. Four hours.

Prerequisites: Four quarter hours of American history, four quarter hours of European history, and four quarter hours of political science; or twelve hours of political science.

Purpose: To study the international relations between the nations of the world with a definite idea of understanding and interpreting present world conditions.

Topics: Foundations of international relations; the United States' system; national policy; geographic position; economic factor; demographic factor; strategic factor; instruments of policy, regional and world politics; pre-war Europe; post-war Europe; Germany; France and Great Britain; Italy; Soviet Russia; smaller states; problem of European peace; China and the Asiatic region; Japan; problem of peace in Asia, the American region; the United States; the world powers; the background of peace; the Covenant of the League; Locarno; the Pact of Paris; recent developments in the war.

Political Science 471. Seminar. Two hours.

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.

LIBRARY SCIENCE

Library Science 186. Introduction to the Use of the Library. One hour.

Purpose: To teach the use of the card catalog and reference books in the library so that the student may be able to get the most from the resources of the library.

Library Science 286. Book Selection and Bibliography. Three hours.

Purpose: To teach the principles and methods of book selection for libraries and the fundamental bibliographic tools and book selection aids.

Library Science 287. Reference Materials. Three hours.

Purpose: To make students familiar with the outstanding reference sources necessary for research work in any field.

DEPARTMENT OF BIOLOGY, CHEMISTRY AND GEOGRAPHY

Science requirements for a Provisional Elementary certificate or any of the degrees must be fulfilled from courses offered in biology, chemistry, geology, and physics. Requirements in geography are stated as such under a separate heading.

For suggested programs for pre-medical, pre-dental and pre-nursing students, see pp. 61 and 63 of this catalog.

BIOLOGICAL SCIENCE

Miss Wharton

Mr. Barbour

Courses in biology are organized to afford students the opportunity to gain a knowledge of plants and animals as a part of their general culture, to prepare them to teach nature study in the grades and biology in high school, and to furnish a background for the study of certain professional courses such as agriculture, home economics, dentistry, and medicine.

As soon as a student decides to major in biology, he should consult his major professor for help in planning his course so as to meet his particular needs.

REQUIREMENTS:

<i>For a Major (certificate and degree):</i>		Qu. Hrs.
Biology 101, 211, 212, 215, 216, 471, 475		28
Additional courses in biology		16
Minimum		44
Maximum		51
<i>For a Major (degree without certificate):</i>		
Biology 101, 211, 212, 215, 216, 471		24
Additional courses in biology to be chosen with the advice of the department chairman according to whether the student's program is pre-medical, zoological or botanical		20
Minimum		44
Maximum		51

For a Minor:

Biology 101, 211, 212, 215, 216	21
Other courses in biology	9
Minimum	30

DESCRIPTION OF COURSES

Biology 101. Fundamentals of Biology. Five hours.

Prerequisite: None.

Purpose: To give the student some fundamental ideas about life and the physical basis upon which it depends; the nutritive, excretory, respiratory, and reproductive processes involved in all types of life; and the interrelationships of various forms of living organisms.

Topics: Protoplasm, cell structure, cell division, photosynthesis, digestion, respiration, excretion, reproduction, and inheritance.

Time: Three lecture and two laboratory periods per week.

Biology 203. Nature Study. Four hours.

Prerequisite: None.

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 six laboratory hours per week.

Biology 211. General Zoology. Four hours.

Prerequisite: Biology 101.

Purpose: To teach the scientific method of thinking through a systematic study of the habitat, structure, function, reproduction, and economic importance of the major groups of lower animals.

Topics: The major groups of invertebrate animals including type specimens of each of the phyla.

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

Biology 212. General Zoology (continued). Four hours.

Prerequisite: Biology 101.

Purpose: To teach the scientific method of thinking through a systematic study of the habitat, structure, function, reproduction, and economic importance of the major divisions of the vertebrates.

Topics: The major groups of the chordates, including type animals of the subphyla of the chordates and the classes of the vertebrates.

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

Biology 215. General Botany. Four hours.

Prerequisite: Biology 101.

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 four laboratory hours per week.

Biology 216. General Botany. Four hours.

Prerequisite: Biology 101.

Purpose: Continuation of Biology 215.

Topics: General survey of the plant kingdom; development, reproduction, and relationships of the Thallophytes, Bryophytes, Pteridophytes, and Spermatophytes.

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

Biology 304. Genetics. Four hours.

Prerequisite: Biology 101.

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, complimentary factors, supplementary factors, inhibitor factors, sex link factors, sex limited factors; linkage and cross over, and biometric methods.

Time: Two lecture-discussion and two laboratory hours per week.

Biology 311. Eugenics. Four hours.

Prerequisite: Biology 101.

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 eutheic majors.

Time: Four lecture-discussion hours per week.

Biology 313. Economic Botany. Four hours.

Prerequisites: Biology 101, and 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: Three lecture-discussion and two laboratory-demonstration hours per week.

Biology 316. Dendrology. Three hours.

Prerequisites: Biology 101, and 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 four laboratory hours per week.

Biology 317. Bacteriology. Six hours.

Prerequisite: Biology 101.

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: Three lecture-discussion and six laboratory hours per week.

Biology 318. Spring Flora. Four hours.

Prerequisites: Biology 101 and 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 six 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. Four hours.

Prerequisites: Biology 101 and 215.

Purpose: To continue Biology 318 and to acquaint the student with the summer flowering plants of eastern Kentucky.

Time: One lecture-discussion and six 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. Five hours.

Prerequisite: Biology 101.

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. Four 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 six laboratory hours per week.

Biology 334. Entomology. Four hours.

Prerequisite: Biology 101 and 211.

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 four laboratory hours per week.

Biology 336. Human Anatomy. Four hours.

Prerequisite: Biology 101.

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: Four lecture-discussion hours per week.

Biology 413. Plant Physiology. Four hours.

Prerequisites: Biology 101 and 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: Two lecture-discussion and four laboratory hours per week.

Biology 414. Plant Diseases. Four hours.

Prerequisites: Biology 101, 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: Two lecture-discussion and four laboratory hours per week.

Biology 432. Physiology of Exercise. Four hours.

Prerequisites: Biology 101 and 332.

Purpose: To teach the fundamental causes for observed effects of exercise on respiration, circulation, muscle tone, etc.

Topics: The structure of muscle fibers and muscles; physiological properties of nerve fibers; nature of nerve impulses; chemical changes in nerves; sources of energy for muscle contraction; waste products and their effects; fatigue; etc.

Time: Four lecture-discussion hours per week.

Note: This course is required of all physical education majors. It does not count as an elective for biology majors or minors.

Biology 433. Field Vertebrate Zoology. Four hours.

Prerequisites: Biology 101 and 212.

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 six laboratory hours per week.

Biology 434. Comparative Anatomy. Six hours.

Prerequisites: Biology 101 and 212.

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: Three lecture-discussion and six laboratory hours per week.

Biology 438. Vertebrate Embryology. Six hours.

Prerequisites: Biology 101 and 212.

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: Three lecture-discussion and six laboratory hours per week.

Biology 471. Seminar. One hour per quarter.

Prerequisites: Twenty-four 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 quarter hours in this course are required of all majors and minors.

Time: One lecture-discussion period per week.

Biology 475. Teaching of Biology. Four hours.

Prerequisite: At least twenty-four hours in biology.

Purpose: To acquaint the prospective teacher of biology with some of the common methods used in selecting, organizing, and presenting materials in biology classes and laboratories, and in securing and preserving specimens for museums.

Topics: Objectives; teaching plans; evaluation of a program; choosing a text; trends in biology; student projects; collecting and preserving materials; laboratory equipment and substitutes; and laboratory experiments.

Time: Four lecture-discussion hours per week.

Biology 476. Special Problems. One to three hours.

Prerequisite: At least thirty 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

Mr. Heller

Mr. Claypool

The courses in chemistry are designed to give a general cultural background to prepare the student to teach high school chemistry, to take work in agriculture, home economics, and other fields in which the fundamentals of chemistry are needed, and to meet the needs of the student desiring to enter such professional fields as medicine, chemistry, dentistry, etc.

It is required that students majoring in the department have a minimum of one year of college physics, one course in algebra, and one in trigonometry.

REQUIREMENTS:

For a Major:

Qu. Hrs.

- A. For students who wish to qualify as teachers of chemistry in high school but who do not expect to take graduate work in the field.
Chemistry 111, 112, 113, 221, 222, 223, 331, 332, 333 and 471 39
- B. For students who expect to do graduate work in chemistry or to qualify as professional chemists.
Chemistry 111, 112, 113, 221, 222, 223, 331, 332, 333, 441, and 471 43

For a Minor:

Chemistry 111, 112, 113, 221, 222, 331 and 332..... 28

DESCRIPTION OF COURSES

Chemistry 111. General Chemistry. Four hours.

Prerequisite: None.

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; chemical change; building block of nature; equations; formulas; etc.

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

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

Prerequisite: Chemistry 111.

Purpose: Continuation of the above prerequisite course.

Topics: The more important non-metals—hydrogen, oxygen, nitrogen, sulfur, etc.

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

Chemistry 113. General Chemistry (continued). Four hours.

Prerequisites: Chemistry 111 and 112.

Purpose: Completion of introductory college chemistry and integration of its content.

Topics: The more important metals—sodium, potassium, calcium, magnesium, aluminum, iron, copper, etc.; the preparation and simple analysis of common materials.

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

Chemistry 221. Qualitative Analysis. Four hours.

Prerequisites: Chemistry 111, 112, and 113.

Purpose: To review general chemical principles and the writing of equations; and to introduce the student to the theory and practice, under the most commonly used technique, of identification of metals and "acids".

Topics: Methods of analysis; selection of a method; principles involved, types of procedure making use of the variety of solubility and color; the group concept and its applications; emphasis on groups I to III, cations, and groups I to V, anions; analysis of an unknown mixture by groups and, finally, of all groups.

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

Chemistry 222. Volumetric Analysis. Four hours.

Prerequisites: Chemistry 111, 112, 113, and 221.

Purpose: To induct the student into the theory and practice of estimating accurately the percent composition of simple chemicals, ores and alloys. The usual methods employing standard solutions are emphasized.

Topics: The variety of methods possible; use of measuring instruments of precision; meaning and nature of accuracy and precisions; meaning of an "average"; judging the reliability of an average result; colitration of instruments and purification standards; practice in Acid-Base titration, in Redox reactions, in making standard solutions, in attacking an analysis by a variety of methods; introduction to electric instruments for pH, etc.

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

Chemistry 223 Gravimetric Analysis. Four hours.

Prerequisites: Chemistry 111, 112, 113, and 221.

Purpose: To continue the theory and practice of mathematical and laboratory treatment of substances to estimate their exact composition. Here the emphasis is on weighing of dry materials before and after treatment rather than by dependence on solutions.

Topics: Calibration of balances and weights; use and care of dessicators; weighing for accuracy and speed; determination of water content; selected exercises using ignition and oven temperatures and such substances as pure chemicals, ores and interesting available products; acquaintance with electrodeposition.

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

Chemistry 331. Organic Chemistry (Chain Compounds). Four hours.

Prerequisites: Chemistry 111, 112, and 113; also 221 or consent of instructor.

Purpose: To meet the requirements of the educated layman in the greatest single field of applied chemistry for its leading theories, principal facts and applications; to meet the requirements for pre-nursing, pre-dental, pre-medical, and home economics curricula; also to meet a need of agriculture teachers.

Topics: The importance of carbon above all other elements; nature of carbon chemistry; fields of application; peculiarities of organic substances and their reactions; classes and series of compounds; type reactions; preparation and identification; chemistry of oils, alcohols, and carbohydrates.

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

Note: Chemistry 331 is the first half of the minimum creditable courses in Organic Chemistry. It must be followed by at least four credit-hours in Chemistry 332.

Chemistry 332. Organic Chemistry (continued) (Cyclic Compounds). Four hours.

Prerequisites: Chemistry 111, 112, 113, and 331.

Purpose: To continue the concepts and practices initiated in Chemistry 331.

Topics: The benzene ring; sources of simple and derived ring compounds; preparation of benzene and aniline derivatives; proteins; coal-tar dyes; medicinals; indicators; rubber; vitamins; hormones; alkaloids.

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

Chemistry 333. Principles and Applications of Organic Chemistry. Four hours.

Prerequisites: Chemistry 111, 112, 113, 331, and 332.

Purpose: To complete and extend the information and techniques of the introductory courses in organic chemistry (Chemistry 331 and 332).

Topics: Emphasis on important uses of selected organic compounds, and upon biological items such as photosynthesis, digestion, and metabolism; review and extension of previously learned facts, with emphasis on general principles.

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

Note: This course is required of all chemistry majors in completion of the unit beginning with Chemistry 331.

Chemistry 340. Introductory Chemistry of Foods. Four hours.

Prerequisites: Chemistry 111, 112, 113, and 331.

Purpose: To apply fundamentals of chemistry to the choice and preparation of foods. The course is 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 111, 112, 113, 221, 222, 223, College algebra, trigonometry, and physics.

Purpose: To prepare the chemistry major to enter advanced courses and to conduct research involving more than introductory courses in the subject; to study certain chemical processes with mathematical precision.

Topics: The relations of chemistry, physics and mathematics; the concepts of precision and accuracy, scientific measurements and their various averages and expressions of reliability; quantitative atomic theories and laws; measurement of gases, liquids, and solids under various thermodynamic circumstances; atomic structure.

Time: Two lecture-discussion hours and two laboratory hours per week.

Note: The course is a part of a unit taught in three segments: Chemistry 441, 442, and 443.

Chemistry 442: Physical Chemistry. Four hours.

Prerequisite: Chemistry 441. Calculus is desirable.

Purpose: Continuation and elaboration of Chemistry 441.

Topics: Physical properties and molecular structure of matter; the laws of thermodynamics; laws and theories involving solutions, electrolytes; thermo-chemistry, and equilibrium and its varieties.

Time: Two lecture-discussion and two laboratory hours per week.

Chemistry 443. Physical Chemistry. Four hours.

Prerequisite: Chemistry 442. Calculus and mechanics are desirable.

Purpose: Continuation of Chemistry 442, integration and fundamentals of the whole course.

Topics: Chemical kinetics; electromotive force; electrolysis; electrical studies; conductance; ionization potentials; polarization; pH determination by electrometric devices; photochemistry; and colloidal state.

Time: Two lecture-discussion and two laboratory hours per week.

Chemistry 451. Physiological Chemistry. Four hours.

Prerequisites: Chemistry 111, 112, 113, 331, 332; also 221 and 222 are highly desirable.

Purpose: To understand and to be able to do, in the field of chemical theory, 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.

Time: Two lecture and four laboratory hours per week.

Chemistry 471. Seminar. One hour.

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 thirty 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.

GEOGRAPHY

Miss Wilkes

Miss Braun

REQUIREMENTS:

For a Major:

Qu. Hrs.

Geography 100, 211, 241, 460, 475	20
Other geography courses	16
Minimum	36
Maximum	40

For a Minor:

Geography 100, 241, 475	12
Other geography courses	12
Minimum	24

AREA MAJOR FOR SOCIAL SCIENCE TEACHERS

Total requirements in history, political science, sociology, economics and geography	72
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History (minimum 28 hours)

History 241, 242, 331, 332	16
American History in 330's and 400's	8
Elective in advanced history courses	4

Total..... 28

Political Science (minimum 8 hours)

Political Science 241	4
One advanced course in 300's or 400's	4

Total..... 8

Sociology (minimum 8 hours)

Sociology 201	4
One advanced course in 300's or 400's	4

Total..... 8

Economics (minimum 8 hours)

Economics 201	4
One advanced course in 300's or 400's	4

Total..... 8

Geography (minimum 8 hours)

Geography 100	4
One course from the following: 241, 320, 331, 383	4

Total..... 8

The remaining 12 hours are free electives and may be chosen from any one or more of these fields	12
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Grand Total..... 72

DESCRIPTION OF COURSES

Geography 100. Fundamentals of Geography. Four hours.

Purpose: To train the student in observation of natural and cultural features of his everyday world and in 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: Map reading and interpretation; 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. Four 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. Five 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 280. Australia. Three hours.

Prerequisite: Geography 100.

Purpose: To give instruction in the natural environment of Australia; to show the relation of man's activities to this natural environment.

Topics: The location of Australia, the climatic regions, the physiographic regions, the plant and animal life, and mineral resources; the human activities of the various regions.

Geography 320. South America. Four hours.

Prerequisites: Geography 100 and 241.

Purpose: To give the student a general knowledge of climatic, topographic, cultural, and trade conditions of the South American countries.

Topics: A somewhat detailed study of the South American countries. Special attention will be given to the relations of South America with the United States.

Geography 331. Europe. Four 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. Four hours.

Prerequisites: Four hours of credit in geography or experience in teaching.

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

Topics: Situation of Kentucky with respect to adjacent states; its climate, soil, vegetation, and population density; detailed study of geologic and geographic regions; field work in selected areas; practice in the assembling and using of materials for teaching the geography of the state.

Geography 351. Middle America. Three hours.

Prerequisites: Geography 100, 241, and 320.

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 380. Introduction to Field Geography. Four hours.

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

Purpose: To develop ability to observe, select, and correlate facts that lead to a geographic understanding of the area studied; to give practice in the assembling, charting, and mapping of the area studied.

Topics: Collection of data for mapping sections of rural or urban areas; surveys of industrial establishments; detailed studies of specific human activities in selected localities.

Geography 383. Geography of Asia. Four hours.

Prerequisites: Geography 100 and 331.

Purpose: To guide the student to an understanding and an 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 387. Geography of Africa. Four hours.

Prerequisites: Geography 100 and 331.

Purpose: To gain an understanding of the conditions, development, and problems 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 military operations.

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

Prerequisites: Twelve hours credit in geography and History 241 and 242.

Purpose: To show the underlying geographic factors in the development of the United States.

Topics: European background of early American history; geographic factors underlying exploration, settlement, expansion, and development of the United States.

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

Prerequisite: Twelve hours credit in geography.

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

Topics: Selection, organization, and presentation of material to be used in the teaching of geography at grade levels.

GEOLOGY

Miss Braun

Courses in geology are intended 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. Courses in this field satisfy the science requirements for the degree and are particularly useful to students of agriculture.

Geology 100. General Geology. Four hours.

Prerequisite: None.

Purpose: To give instruction in the forces and processes acting on the surface of the land; to give instruction in the internal forces and processes acting on the earth.

Topics: A study of the origin and classification of rocks; a study of the origin and classification of soils; a study of the major physiographic features; a study of the atmosphere in its relation to modification of the surface of the earth.

Time: Four lecture-discussion hours per week and special field trips.

Geology 101. Historical Geology. Four 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 air conditions that have occurred in the various ages of the earth.

Topics: A study of fossils, minerals, and rocks occurring in the various stages of the earth's processes.

Time: Four lecture-discussion hours per week and special field trips.

DEPARTMENT OF MATHEMATICS AND PHYSICS

MATHEMATICS

Mr. Billhartz
Mr. Fair

Mr. Overstreet
Mrs. Cooper

Students who intend to major in mathematics or physics should enroll in the beginning classes in these fields during the freshman year and should consult the head of the department regarding their programs of courses.

Students majoring or minoring in mathematics should take as many courses in physics as possible, although it is not required that they do this. Such courses broaden the mathematical viewpoint and equip the student for positions as teachers of mathematics and physics in high schools.

REQUIREMENTS:

<i>For a Major:</i>	Qu. Hrs.
Mathematics 141, 151, 231, 361, 362	25
Other courses above 300 prescribed by the department	12
Students expecting to do graduate work in mathematics should take at least 16 hours in the 400 group	
Minimum	37
Suggested maximum	41
 <i>For a Minor:</i>	
Mathematics 141, 151, 231, 361	20
Additional work prescribed by the department	4
Minimum	24

REQUIREMENTS FOR AN AREA MAJOR IN SCIENCE

A teaching area in science shall consist of a minimum of 72 quarter hours in the sciences, 32 of which shall be in one of the following: biology, chemistry, or physics, and a minimum of 12 quarter hours in each of the other two of these fields (biology, chemistry, physics); 4 quarter hours in geology; and the remaining 12 quarter hours shall be selected from the sciences.

Students taking the Area Major in Science must offer mathematics as one of the fields in the core curriculum. They should also offer additional hours of credit in science subjects sufficient to earn the B.S. degree. A minimum of 90 quarter hours of science credit is required for this degree.

Mathematics 000. Elementary Mathematics. No credit.

Purpose: To prepare students who have not had adequate background in arithmetic, algebra and geometry, for college courses in mathematics and science.

Topics: Selected topics from arithmetic, high school algebra and geometry.

Four hours recitation per week.

Mathematics 101. Business Arithmetic. Four hours.

(Credit in this course will not be accepted on mathematics requirements for a degree or for a major or minor in mathematics.)

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

Topics: Addition, subtraction, multiplication and division of integers, common fractions and decimals; ratio and proportion; percentage; brokerage; interests; discounts; weights and measures; payments; insurance; taxes; partnership settlements; charts and graphs.

Mathematics 111. Slide Rule. Two hours.

(Credit in this course will not be accepted on the mathematics requirement for a degree or for a major or minor in mathematics.)

Purpose: To develop proficiency in the operation of a slide rule.

Topics: Multiplication, division, powers, roots, trigonometric functions, ratio, and proportion, solution of triangles, applications to chemistry and physics.

Mathematics 141. Plane Trigonometry. Five hours.

Prerequisites: One unit each of high school algebra and of plane geometry or Mathematics 000. The course may be taken before, after, or simultaneously with College Algebra.

Purpose: (a) To develop the mathematical ability of the student, (b) to lay a foundation for future work in mathematics, and (c) to make a study of the process of triangulation.

Topics: The trigonometric functions; the right triangle; law of sines and cosines; trigonometric equations; fundamental identities of trigonometry; radian measures; inverse

functions; logarithms; solution of the general triangle by logarithms.

Mathematics 142. Spherical Trigonometry. Three hours.

Purpose: To develop a working knowledge of the principles of trigonometry as applied to the solution of spherical triangles.

Topics: Napier's rules and laws of quadrants for right spherical triangles; polar triangles; quadrantal triangles; oblique spherical triangles; applications to problems in navigation; spherical coordinates.

Mathematics 151. College Algebra. Five hours.

Prerequisites: One unit each of high school algebra and of plane geometry or Mathematics 000. The course may be taken before, after, or simultaneously with Plane Trigonometry.

Purpose: To review high school algebra, to make a critical study of the algebraic process, to develop the idea of function, or the dependence of one variable upon other variables.

Topics: Review of high school algebra; a study of exponents, radicals, graphs, and properties of quadratic equations; ratio, variation, proportion, logarithms, progressions, permutations and combinations, probability, partial fractions, and an introduction to determinants and series.

Mathematics 152. Mathematics of Finance. Five hours.

Prerequisite: Mathematics 151.

Purpose: To give the student of commercial subjects, or the general student desiring the course, a knowledge of the fundamental mathematics connected with business.

Topics: The course deals with calculations on interest, annuities, amortizations, sinking funds, bonds, depreciation, building and loan, life insurance, and related topics.

Mathematics 153. Statistics. Four hours.

Prerequisite: Mathematics 152.

Purpose: To provide the student with knowledge of statistical principles and practice in elementary statistical procedures.

Topics: Tabulation and graphical presentation of statistical data; averages; dispersion; simple correlation, etc.

Mathematics 231. Analytic Geometry. Five hours.

Prerequisites: Mathematics 141 and Mathematics 151.

Purpose: (a) To show the relations between geometry and algebra, (b) to teach the construction and interpretation of graphs.

Topics: Cartesian coordinates; the fundamental properties of curves; the curve as a locus; the straight line; the circle; the conic sections; transformations of coordinates; tangents; polar coordinates; transcendental curves; parametric equations; properties of curves and surfaces in geometry of three dimensions.

Mathematics 361. Differential Calculus. Five hours.

Prerequisite: Mathematics 231.

Purpose: (a) To teach the concept of limits, (b) to study the variation of a function as the independent variable changes, (c) to derive a few of the fundamental equations of physics and mechanics, and (d) to study the integral as a limit of a sum.

Topics: The derivative; maxima and minima; rates; simple integrals; introduction to the summation process; areas; volume; lengths.

Mathematics 362. Integral Calculus. Five hours.

Prerequisite: Mathematics 361.

Purpose: This is a continuation of the course in Differential Calculus.

Topics: Integration; definite integrals; areas; surfaces; volumes; applications to physics and mechanics; partial derivatives; infinite series; Taylor's series; introduction to differential equations.

Mathematics 371. History of Mathematics and Teaching Mathematics in Secondary Schools. Four hours.

This course is designed primarily for students who are expecting to teach mathematics. Under no circumstances will students be permitted to take this course until they have had, or are taking, Mathematics 231.

Mathematics 431. College Geometry. Four hours.

Prerequisite: Mathematics 231.

Purpose: To study problems in advanced plane geometry dealing with important extensions of the concepts of elementary geometry.

Topics: Advanced problems in construction; study of geometric loci; similar and homothetic figures; Ceva's theorem; Menelaus' theorem; harmonic ranges and pencils; complete quadrangle and complete quadrilateral; nine-point circle; symmedians; coaxal circles; inversion; poles and polars; cross ratio; involution.

Mathematics 432. Synthetic Projective Geometry. Four hours.

Prerequisite: Mathematics 231.

Topics: Primitive forms; principle of duality; perspective position; harmonic ranges; harmonic pencils; projectively related primitive forms; elementary forms; Pascal's theorem; Brianchon's theorem; poles; polars; diameters; ruled surfaces; involution.

Mathematics 441. Theory of Equations. Four hours.

Prerequisite: Mathematics 231.

Topics: Imaginary numbers; theorems on the roots of an equation; solution of cubic and quartic equations; Newton's and Horner's methods of solving the equation of the n th degree; determinants; symmetric functions; elimination.

Mathematics 461. Advanced Calculus. Four hours.

Prerequisite: Mathematics 362.

Purpose: To extend the concepts of differential and integral calculus.

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

Mathematics 481. Series. Four hours.

Prerequisite: Mathematics 362.

Purpose: To give the student a working knowledge of limits and series.

Topics: Aggregates, limits and bounds, tests for convergence, operations with series.

Mathematics 482. Differential Equations. Four hours.

Prerequisite: Mathematics 362.

Topics: The theory and methods of solving ordinary differential equations with applications to mechanics and physics.

Mathematics 484. (Also Physics 484.) Theoretical Mechanics. Five hours.

Prerequisites: Mathematics 362 and Physics 131.

Topics: Elementary concepts; rectilinear and curvilinear motion of a particle; statics of a particle of rigid bodies; particle dynamics; dynamics of rigid bodies; constrained motion; oscillations.

Mathematics 485. Vector Analysis. Four hours.

Prerequisite: Mathematics 362.

Purpose: To teach the fundamental principles of vector analysis for the student of pure mathematics and the student of physics and engineering.

Topics: Addition, subtraction, and multiplication of vectors; differentiation and integration of vectors; kinematics, and dynamics of a particle; kinematics and dynamics of a rigid body.

PHYSICS

Mr. Billhartz

Mr. Overstreet

Mr. Fair

REQUIREMENTS:

<i>For a Major:</i>	Qu. Hrs.
Physics 131, 132, 133, 331, 332	24
Other courses above 300 prescribed by the department	12
Minimum	36
 <i>For a Minor:</i>	
Physics 131, 132, 133	12
Additional courses prescribed by the department	12
Minimum	24

For the Degree in Home Economics:

Either a special course in Household Physics or Physics 131, 132, and 133 will be required.

For Preparation for Medicine:

All strong medical schools require a minimum of 12 quarter hours work in college physics. This requirement may be met by courses 131, 132, and 133.

Students who intend to take a major or minor in physics should plan their schedules so as to take Mathematics 141, 151, and 231 concurrently with Physics 131, 132, and 133. It should be noted that Differential Calculus (Mathematics 361) is a prerequisite for nearly all advanced courses in physics; for this reason it is desirable that those students taking majors or minors in physics plan to take at least a minor in mathematics. Physics Majors should also take Chemistry 111, 112, and 113.

DESCRIPTION OF COURSES

Physical Science 101. Introduction to Physical Sciences. Four hours.

Credit for this course will be accepted as science credit on the bachelor's degree. It will not be accepted as science credit on a major or minor in any science. Students who have had high school physics should not register in Science 101.

Purpose: (a) To give an introduction to the basic ideas of the physical sciences, particularly the sciences of chemistry

and physics; (b) to give a cultural outline of the sciences in order that the student who is not primarily interested in them may have his viewpoint enlarged by a good general idea of their range and their relation to the affairs of his everyday life; and (c) to stimulate interest in science at this school and encourage further work in the more rigorous laboratory courses.

Topics: Deals largely with the science of physics and will treat such materials from chemistry as are closely related thereto. Four hours of lecture and discussion work per week with outside reading.

Physics 111. Household Physics. Four hours.

Topics: A study of the elementary ideas of mechanics, molecular physics and heat; also electricity, magnetism, sound and light with particular emphasis on the applications of these principles to everyday life in the home.

The course is a very valuable one from a practical standpoint as well as being of considerable value from the broad cultural understanding of the forces and laws of physical science. The course is abundantly illustrated by demonstration lectures, and other devices.

Physics 131. Elementary Physics. Four hours.

Prerequisite: One unit each of high school algebra and plane geometry or Mathematics 000.

Purpose: To introduce students to the science of physics and to help to train them to teach physics in high schools.

Topics: A study of the elementary ideas of mechanics and molecular physics.

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

Physics 132. Elementary Physics. Four hours.

Prerequisite: Physics 131.

Purpose: Continuation of Physics 131.

Topics: A study of the elementary ideas of electricity and magnetism.

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

Physics 133. Elementary Physics. Four hours.

Prerequisites: Physics 131.

Purpose: Continuation of Physics 131 and Physics 132.

This course may be taken either before or after Physics 132.

Topics: A study of the elementary ideas of heat, sound and light.

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

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 331. Mechanics and Heat. Six hours.

Prerequisite: Credit in or simultaneous study of Mathematics 361.

Topics: The first quarter's work in physics consists of a study of mechanics and heat. Under mechanics are included the fundamental theory of force, acceleration, velocity, motion, simple machines, friction, gravitation, fluids, elasticity and the molecular theory of matter. The topics studied under heat are measurement of temperature, laws of expansion and quantity of heat, the relation of work to heat, the methods of transferring heat, the change of state, and application of heat to meterology and machines.

Four recitations and two laboratory periods per week.

Physics 332. Electricity and Magnetism. Six hours

Prerequisites: Physics 331 and Mathematics 362.

Topics: The magnetic field; electrostatics; electric circuits; electrical conduction in liquids and gasses; thermoelectricity; electromagnetism; alternating current circuits.

Four recitations and two laboratory periods per week.

Physics 333. Light. Four hours.

Prerequisites: Physics 331 and Mathematics 362.

Topics: Wave motion; geometrical optics; diffraction; interference; polarization; optical instruments.

Four recitations per week.

Physics 361. Fundamentals of Radio. Five hours.

Prerequisites: Physics 132.

Topics: Review of fundamentals of electricity and magnetism; characteristics of vacuum tubes; rectifiers; amplifiers; oscillators; gas-filled tubes and their applications; cathode ray tubes; transmitters; receivers.

Three hours lecture-recitation and four hours laboratory per week.

Physics 371. Special Problems in Physics. One to three hours.

Purpose: To develop originality and confidence in the student and to give him experience in independent laboratory work; also, to give the student a deeper insight into the spirit of science. (This course is primarily for future teachers of physics.)

Topics: The course will consist of the working out of special laboratory experiments, the development of better laboratory equipment, and the solution of special mathematical problems related to physics.

Physics 372. Special Problems in Physics.

This course is a continuation of Physics 371.

Physics 441. Introduction to Advanced Physics. Four hours.

Prerequisite: Physics 332.

Purpose: (a) To present to the student a survey of the field of modern advanced physics to the end that he may have a deeper appreciation and understanding of the material world about him, and (b) to present a background for more advanced studies in physics and other sciences.

Topics: Properties of matter; nature of light; nature of heat; nature of energy; laws of radiation; the electron; the

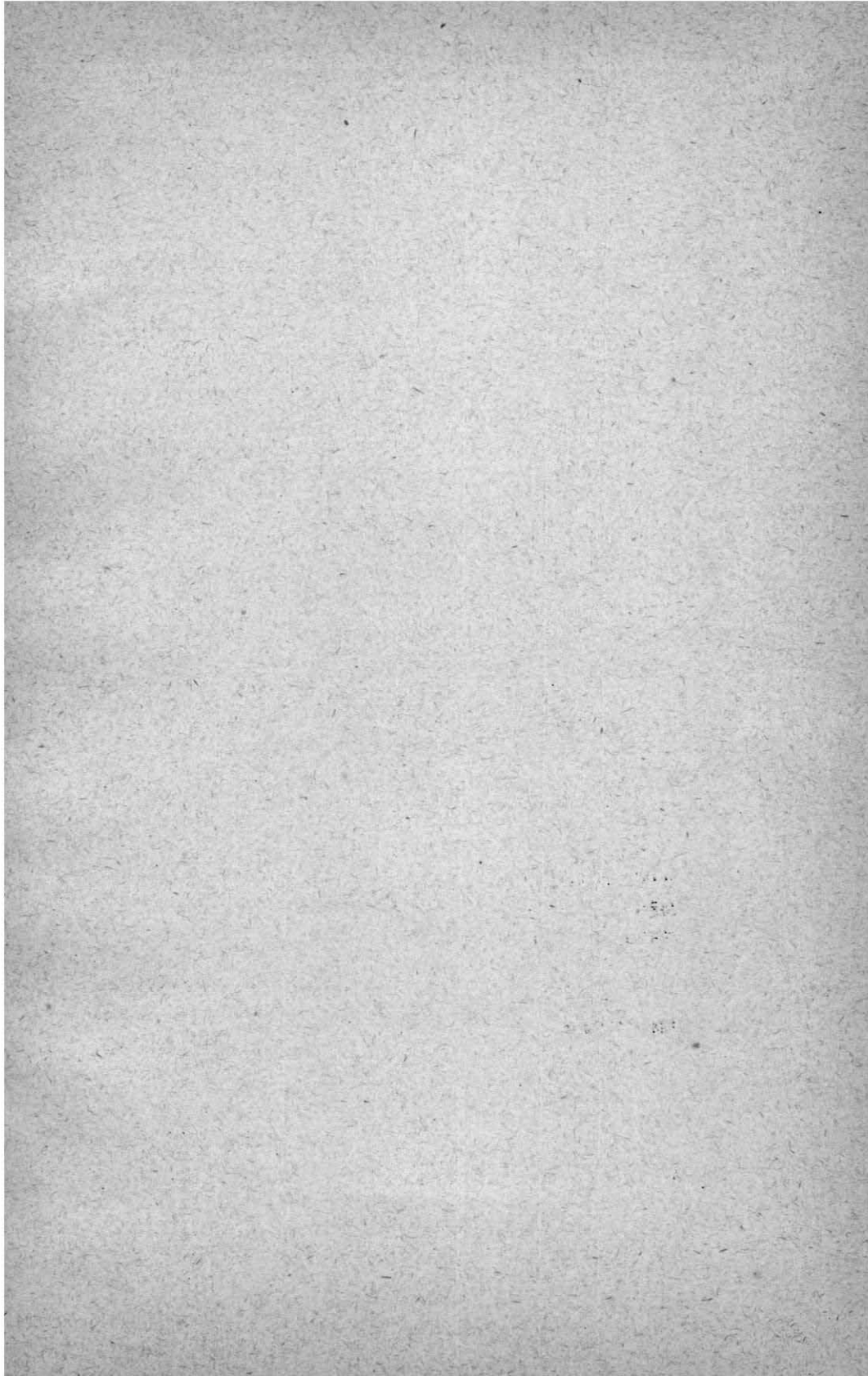
atom; the molecule; emission and absorption of light; spectra; x-rays; radio-activity; nuclear physics.

Lectures, recitations, and problems.

Physics 484. (Also Mathematics 484.) **Theoretical Mechanics. Five hours.**

Prerequisites: Physics 131 and Mathematics 362.

Topics: Elementary concepts; rectilinear and curvilinear motion of a particle; statics of a particle; statics of a rigid body; particle dynamics; dynamics of a rigid body; constrained motion; oscillations.



Special Departments

ART

HEALTH AND PHYSICAL EDUCATION

HOME ECONOMICS

INDUSTRIAL ARTS

MUSIC

DEPARTMENT OF ART

Mrs. Claypool

Mr. Young

This department offers professionalized courses in art education, creative expression in technical instruction, a sympathetic understanding of life art in appreciation, and history of world art.

The professionalized courses in art education have to do with the stimulating of self expression, with direction in the techniques of the different types of drawing, painting, design, modeling, crafts, and commercial art processes.

The appreciation work deals with the art elements and principles of design as related to every-day life, and with the functioning of these in fine art products.

The aim of this department is to prepare teachers in the progressive philosophy of art teaching and to give them a working knowledge of art processes so that they may guide and stimulate creative expression in children. It is also the purpose of the department to discover talent among the students and to give the type of instruction necessary in developing this talent.

REQUIREMENTS:

<i>For a Double Major:</i>	Qu. Hrs.
All courses offered in the department.....	72
<i>For a Major:</i>	
101, 121, 122, 123, 161, 202 or 291, 263 or 264 or 465, 304, 311 or 314, 381, 412 or 415	31
Elective	6
Total.....	37
<i>For a Minor:</i>	
101, 121, 122, 161, 202 or 291, 263 or 264 or 465, 311 or 314	19
Elective	6
Total.....	25

Students who are not working for a teaching certificate will be permitted to make substitutions for Art 121, 122, and 123 on the advice of the Head of the Department.

Note:—Students planning to take Public School Art 121, 122, and 123 will eliminate many difficulties by prefacing these courses with Art 101 (Freehand Drawing).

Art Majors will find it beneficial to include the following subjects in their curriculum: Elementary Mechanical Drawing, History of Civilization, Zoology, a beginning course in chemistry and physics, and foreign language.

Art 101. Freehand Drawing. Three hours.

Prerequisite: None.

Purpose: This course is planned to develop an ability to draw. It is designed primarily for those students who have had no previous drawing experience and to promote growth in drawing skill possessed by those with some previous training. The development of this ability to draw will add the graphic language to the individual's means of expressing himself, provide a necessary background for additional technical courses in art, greatly increase the classroom effectiveness of the prospective public school teacher, and add to the recreational possibilities open to the individual.

Topics: Sketching, problems in various mediums, composition in drawing, quick action sketching, figure drawing, portrait sketching, and creative compositions.

Art 102. Creative Art. Two hours.

Purpose: To give students who are afraid of the technicalities of an art program the opportunity to paint, draw, or engage in any type of art work they choose.

Topics: The only instruction given will be that asked for by the student, and an explanation of the handling of the medium that has been chosen. There will be no marks given except pass or fail. This will be determined by the number of art products made and the earnestness of the student. This course cannot be substituted for any required art course.

Art 121. Public School Art or Introduction to Art. Two hours.

Prerequisite: None.

Purpose: To give experience with various media and processes and a working understanding of the fundamental principles of art; to stimulate creative expression in design and give methods of stimulating this type of work in teaching; also, to formulate a background for all art study and present an understanding of the principles involved.

Topics: Design, color, lettering, and creative art problems in these phases.

Art 122. Public School Art or Introduction to Art. Three hours.

Prerequisite: None.

Purpose: To provide drawing experiences that will enable the student to express himself with that means; to stimulate the creativeness in drawing that can be taught only if experienced; to provide some painting problems that involve the use of color with drawing; and to initiate an understanding of the progressive principles of teaching art in the schools.

Topics: An introductory study of the teaching of art in the grades. An attempt is made to familiarize the student with the best public school art books, and to teach them how they should be used in the classroom. Activities suitable for the various grades are developed. One day a week is devoted to observing art activities that are in progress in the different grades in the Training School.

Art 123. Advanced Public School Art (Materials, Methods and Activities for the Grades.) Two hours.

Prerequisites: Art 121 and 122.

Purpose: To give the student the experience of applying the knowledge learned and skills acquired in Art 121 and 122 and of working out activities that may be interrelated with the activity or unit plan of teaching in the 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; also, an insight into methods of getting, making, and using inexpensive and homemade materials and tools; group creative art activities as the making of movies, puppetry, book-making, marionette shows, plays, peep shows, table models, descriptive and animated maps, murals, friezes, textile decoration, etc.; individual creative art activities as block-printing, lettering, posters, clay work, and many of the techniques used in art work.

Art 161. Art Appreciation. Two hours. Given first and third quarters.

Purpose: To help students to solve successfully art problems which they encounter in daily activities; to develop ability to see beauty and art quality wherever they may be found; to recognize the value of art as an educational, cultural, and social force; to encourage interest in that which is beautiful and inspiring in the world of art; and to realize that art expresses the essential thought of the people of any age.

Topics: An introduction to the elements and fundamental principles of the space arts; how to understand these principles at work in art objects; study of line, light and dark, form, color, texture and space in relation to the home, furniture, pottery, textiles, dress, graphic art, civic art, metal work, and glassware; and illustrative material in the form of pictures, slides, and exhibits.

Art 162. Advanced Art Appreciation. Two hours. Second and fourth quarters.

Prerequisite: Art 161.

Purpose: To give students an opportunity for appreciative study with special reference to the creative periods and their relation to the development of man.

Topics: Art in the home, furniture, pottery, ceramics, textiles, dress, graphic arts, civic art, metalwork, photography, commercial art, flower arrangement, hairdress, stage design, woodwork, art of the book, glass, various periods of painting, architecture, and sculpture.

Art 202. Composition and Drawing. Three hours.

Prerequisite: Art 101.

Purpose: To develop power in freehand drawing and the use of compositional principles; to improve the appreciation of line quality, of value and tone relations in compositions; and to give opportunity for self-expression in different mediums. To give students who have had some drawing an opportunity to do more advanced problems with new materials and to prepare them for painting classes.

Topics: Ways of combining lines, light and dark, form, color, texture, and space to produce fine quality in creative composition.

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

Purpose: To help students develop a broader and deeper capacity of appreciation and also to make a more vital interrelation between all the fine arts; to develop a high standard of taste through a study of the arts; to acquaint students with methods and processes of the masters; to create a power of initiative in civic art activities; to give historic knowledge its universal kinship with all ages and races; to provide for meritorious and refining recreation and self expression.

Topics: A brief historical survey of the architecture and sculpture of all the ages. Comparative studies are made and the influences on all art analyzed.

Art 264. History of Art (Painting). Four hours. Second quarter.

Prerequisite: None.

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 effect of history of the times, customs, and religious beliefs on the subject and methods of presentation are examined as well as the art structure.

Art 291. Color and Design. Three 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; lectures, exhibits, and creative work.

Art 292. Elementary Costume Design. Three hours. First and third quarters.

Prerequisites: Art 101 or 304, and 291.

Purpose: This course is planned to develop an understanding and appreciation of good dress design, not only in the student who is particularly interested in the clothing field but also in the individual who wishes to design clothes for her own personal pleasure and satisfaction. It is also designed 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; a study of personality, creative effects, and adaptive designing; history of costume as applied to modern dress; costume sketching in light and dark color.

Art 303. Composition and Drawing (Advanced). Three hours.

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 classes.

Topics: Planning still life compositions, both abstract and realistic; arranging and rearranging compositional elements for landscapes; composing portraits and figure studies.

Art 304. Figure Drawing and Composition. Three 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. Beginning Oil Painting. Three hours.

Prerequisites: Art 101, 121 or 202.

Purpose: To ground the student in fundamentals of good

painting; to develop individual expression in this medium; to give a vital interest in creative art through power gained in use of the oil medium; and to acquaint the student with viewpoints of the different schools of painting.

Topics: The content includes materials and technical employment, emphasis placed on composition, pigments, pigment range versus light range; representation of form as revealed through light; technical study in vision and employment of palette; seeing significantly; expressing individual viewpoint; imaginative composition; painting from still life, costumed model, and nature out-of-doors.

Art 314. Beginning Water Color Painting. Three hours.

Prerequisite: Art 101.

Purpose: To develop an 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, as well as to represent one's aesthetic emotions in this media.

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

Art 341. Beginning Crafts. Three hours.

Prerequisite: Art 161 or 291.

Purpose: To develop appreciation and interest in the different crafts of the world; to study the harmonious relationship of the construction and design of artistic products; to teach the correct use of materials; to stimulate good craftsmanship and the creation of appropriate designs; and to work out craft problems of the teacher in art activities.

Topics: Original designing and construction problems in leather, metal work and jewelry, clay modeling, pottery, textile techniques, papier mache, linoleum block printing, marionette, puppet and mask-making, and craftwork that adapts itself to the native materials of the rural school; creative manipulation of cast-off materials and training in camp crafts.

Art 381. Beginning Commercial Art. Three hours.

(Students planning to take Art 381 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 the development of an ability to design and execute representative types of commercial art. The secondary purpose is the development of an appreciation, based on personal experience, that will enable the student to judge intelligently artistic merit in the commercial art products which surround him on every hand.

Topics: Illustrated lectures on: color and design in commercial art, elementary psychological principles of advertising design, commercial art processes and mediums, and reproductive (photoengraving) processes. Training will be given, through laboratory problems in: lettering, advertising, layout, dry brush drawing, transparent and opaque wash drawing, pen and ink drawing, lithograph crayon drawing, cartooning, and poster and sign painting.

Art 394. Stage Design. Three hours.

Prerequisites: Art 101 and Art 291.

Purpose: To develop an appreciation of the art of the theatre; to provide training and experience in stage-craft that can be utilized by teachers in coaching school dramatics and by those who wish to engage in dramatic activities; and to give training in stage design to students with special interests who are taking courses in play coaching and creative dramatics in the Department of English.

Topics: Lectures and reading will be centered around the following topics: art principles and their application to stage design; terminology; types of stage setting; suggestions for making costumes; construction and painting of stage scenery and properties; stage lighting; the marionette stage; and make-up. Designs and models will be made in laboratory periods to provide experience in applying the knowledge acquired during the course. Designs for stage settings for some of the campus dramatic productions will be prepared in this class.

Art 412. Advanced Oil Painting. Three hours.

Prerequisites: Art 101, 202, 304, and 311. This course is a continuation of Art 311.

Art 413. Portrait Painting. Three hours.

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

Purpose: To begin the development of an ability to do creative portrait painting in oil; to develop 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 the oil painting of the past and present through personal experience.

Topics: At least three portraits will be painted during the quarter. Training will be given in the selection and use of paints and other materials; in the arrangement of the palette; in the composition of the portrait; and in methods of framing the finished portrait.

Art 415. Advanced Water Color Painting. Three hours.

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

Purpose: Same as for Art 314.

Topics: Continuation of the work begun in Art 314.

Art 442. Advanced Art Crafts. Three hours.

Prerequisites: Art 161 or 291 and 341.

Purpose: To give students an opportunity for further work in crafts with more advanced problems in the craft mediums. (See Art. 341.)

Art 455. Advanced Art Problems. Four hours.

Prerequisites: To be determined in each case by the head of the department.

Purpose: To give advanced students an opportunity for additional training in technical art or for research in art history or art education that would not be provided by the regular art course. Etching may be included.

Topics: To be determined for each individual by the instructor in charge.

Art 465. History of Modern Art. Four hours.

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) up to the present day. A comparative study is made of the influences of the art of previous times on present-day art. Illustrated lectures are given with slides and pictures, structural analyzations of the art are made, and the value of the fads and fashions in art are determined.

Art 482. Advanced Commercial Art. Three hours.

Prerequisites: Art 101 and 381.

Purpose: As stated for Art 381.

Topics: Training will be given in executing additional commercial art problems involving more advanced processes and techniques. The use of the principles of design and the function of pertinent principles of advertising psychology in commercial art will be investigated more fully.

Art 493. Advanced Costume Design. Three hours.

Prerequisites: Art 101 or 304, and 292. It is advisable that Home Economics 141 and 241 be taken before this course is attempted.

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

Topics: Color and personal dress problems will receive the principal emphasis in this course—color theory; textures and patterned materials as they affect the individual; corrective and structural designing for the figure; a closer study of personality traits and how they may be enhanced by dress; and sketching in color.

DEPARTMENT OF HEALTH AND PHYSICAL EDUCATION

Mr. Johnson
Mr. Laughlin

Mrs. Howard
Mr. Radjunas

All students who are graduated from Morehead State Teachers College are required to take one year (three quarter hours) of physical education.

All freshmen women are required to take Physical Education 100 for their first quarter. Each quarter thereafter during the freshman year they may elect any of the following courses:

101, 102, 103, 106, 107, 116, 117, 118, 122, 123, 134, 216, 217, 222, 231, 234, 316, 317.

All freshmen men are required to take Physical Education 100 for their first quarter. Each quarter thereafter during the freshman year they may elect any of the following courses:

101, 102, 103, 106, 116, 117, 122, 124, 133, 134, 216, 217, 231, 234, 316, 317.

All students majoring or minoring in physical education are required to pass proficiency skill tests at the close of the sophomore year on volley ball, basketball, soccer, softball, swimming, tumbling, and dancing. If the work is not satisfactory, skill courses will be required.

At the close of the senior year a comprehensive test over the major will be given.

REQUIREMENTS:

For a Major (Women)

	Qu. Hrs.
Physical Education 203, 220, 305, 315, 335, 385, 435, 436, 437, 460, 493	28
Elect one—325, 345, or 355	2
Elect six of the following courses:	
101, 102, 103, 106, 116, 117, 122, 133, 134, 216, 217, 222, 231, 234, 316, 317	6
Total.....	36

In addition to the above, women majors must take Biology 103, 104, 332, 336 and 432.

For a Major (men)

Physical Education 203, 220, 335, 375, 385, 395, 405, 435, 436, 437, 460, 493	30
Elect six of the following courses: 101, 102, 103, 106, 116, 117, 122, 124, 133, 134, 216, 217, 231, 234, 316, 317	6

In addition to the above, men majors must take Biology 103, 104, 332, 336, and 432.

For a Minor (Women)

Physical Education 203, 220, 315, 335, 385, 435, 465	17
Elect one—325, 345, or 355	2
Elect six of the following courses: 101, 102, 106, 116, 117, 122, 133, 134, 216, 217, 222, 231, 234, 316, 317	6

Total..... 25

In addition to the above, women minors must take Biology 103, 104, and 332.

For a Minor (Men)

Physical Education 203, 220, 335, 375, 385, 395, 435, 465	19
Elect six of the following courses: 101, 102, 103, 106, 116, 117, 122, 124, 134, 135, 216, 217, 231, 234, 316, 317	6

Total..... 25

In addition to the above, men minors must take Biology 103, 104, and 332.

DESCRIPTION OF COURSES OPEN TO BOTH MEN AND WOMEN

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

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

Topics: Most common abnormal conditions of the body; desirable health practices, safety in the home; safety on the highway, etc.

Physical Education 115. Bait Casting. One hour.

Purpose: To learn the fundamentals of casting and to practice these fundamentals.

Topics: Various methods of casting; study of proper equipment and care of equipment.

Physical Education 119. Hiking and Camp Craft. One hour.

Purpose: To visit surrounding points of interest, and to participate in camp craft.

Topics: Firebuilding, outdoor cookery, camping in the out-of-doors.

Physical Education 120. Group and Party Games. One hour.

Purpose: To acquaint students with a repertoire of games suitable for any event they may be called upon to direct.

Topics: Mixers, singing games, relays, tag games, quiet games, paper and pencil games and the like. To learn something concerning the improvising of materials for these games.

Physical Education 133. Folk Dancing. One hour.

Purpose: To give the fundamental steps used in the folk dances of Europe and the Americas.

Topics: National folk dances and singing games of all nations.

Physical Education 134. Elementary Tap Dancing. One hour.

Purpose: To acquire skill in tap dancing through practice of steps and dances; and the appreciation and understanding of music as related to dance steps.

Topics: Fundamental tap steps; elementary tap and character dances; original tap combinations and dances.

Physical Education 137. Social Dancing. One hour.

Purpose: To meet the 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 the administering of first aid in emergencies which may occur in school, on the playground, athletic field, and outings.

Topics: The 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: Personal Hygiene and Public Safety is desirable.

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

Topics: To study the various local, state, and Federal health laws, problems relating to food, milk and water supplies, communicable disease, etc.; and economic and social aspects of community health problems.

Physical Education 220. Games for Elementary School. Three hours.

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

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

Physical Education 231. Natural Dancing. One hour.

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

Topic: Interpretation of music through movement; rhythmic patterns of fundamental dance steps; and creative work.

Physical Education 234. Intermediate Tap Dancing. One hour.

Prerequisite: Physical Education 134.

Purpose: To increase personal tap dancing skill and to do creative work.

Topics: Practice in advanced tap and character dancing; analysis and interpretation of tap skills and tap dancing compositions.

Physical Education 335. Materials and Methods of Rhythms in the Elementary School. Two hours.

Purpose: To acquaint the students with materials and methods for teaching the dance in the lower grades.

Topics: Singing games, simple folk dances, responses to music, and progressive development of rhythm and rhythmic patterns.

Physical Educational 385. Materials and Methods of 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, and location of material.

Physical Education 435. Practical Application of the Dance. Two hours.

Prerequisites: Satisfactory performance of dancing skill test and Physical Education 335.

Purpose: To give the student experience in the teaching of the dance.

Topics: Dance materials applicable to the lower six grades, program planning and execution.

Physical Education 436. Kinesiology and Therapeutic Exercises. Three hours.

Prerequisites: Biology 332, 336, 432.

Purpose: To give the student adequate knowledge and understanding of the structure and motor functioning of the human organism, and methods for correction of faulty postures.

Topics: Articulations of the body; muscles of the body; physiology of movement; mechanics; analysis of activities; problems of the teacher; corrective exercises.

Physical Education 437. Kinesiology and Therapeutic Exercises. Three hours.

Prerequisite: Physical Education 436.

Continuation of Physical Education 436.

Physical Education 460. 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 and an analysis of its aims, objectives, and principles.

Physical Education 465. Health and Physical Education in the School. Four hours.

Required only of minors.

Purpose: To make available material, and to enable the student 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 service; health supervision; health instruction; standards for contest programs; lesson planning; class organization.

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

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

Purpose: To give the policies in the organization and administration of the physical education program.

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

SECTIONS FOR MEN AND SECTIONS FOR WOMEN

Physical Education 100. Orientation in Physical Education. One hour.

Purpose: To offer guidance to all entering freshmen students in the selection of physical activity.

Topics: Testing on skills, and participation in a number of activities.

Physical Education 102. Basketball. One hour.

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

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

Physical Education 103. Soccer. One hour.

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

Topics: Rules; individual technique of kicking, heading, stopping the ball, running, passing, shooting, and evading.

Physical Education 106. Softball. One hour.

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

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

Physical Education 116. Elementary Tennis. One hour.

Purpose: To learn fundamental strokes and to put them into practice in the game situation.

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

Physical Education 117. Elementary Swimming. One hour.

Purpose: To teach a wide range of water sports, primarily through practical experience.

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

Physical Education 122. Stunts and Tumbling. One hour.

Purpose: To give the student fundamental skills and practice in elementary stunts.

Topics: Rolls; balances; head stands, pyramids; and double stunts.

Physical Education 216. Intermediate Tennis. One hour.

Prerequisite: Physical Education 116 or its equivalent.

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

Topics: Advanced strokes, types of defensive and offensive plays in singles.

Physical Education 217. Intermediate Swimming. One 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 hour.

Prerequisite: Satisfactory performance of skill tests in tennis.

Purpose: To further promote the game of tennis.

Topics: Perfection of strokes in tennis and tournament play.

Physical Education 317. Advanced Swimming. One hour.

Prerequisite: Satisfactory performance of skill tests in swimming.

Purpose: To further promote the art of swimming and diving.

Topics: Fancy diving; racing starts and turns; how to conduct meets; and life saving.

CLASSES FOR WOMEN ONLY

Physical Education 107. Body Mechanics. One hour.

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

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

Physical Education 110. Archery. One 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 111. Badminton. One hour.

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

Topics: Description of equipment and court; groundwork; stroke production including the serve, lob, smash, drive, drop shots, and net shots; rules and scoring; and match play.

Physical Education 112. Fencing. One hour.

Purpose: To learn the fundamentals involved in fencing.

Topics: Exercises to strengthen the muscles used in fencing, on guard position, advance and retreat, lunge, engagements and disengagements, parry, one-two, the beat, riposte, and counters.

Physical Education 113. Field Hockey. One 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, job, 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 118. Bowling. One hour.

Purpose: To acquaint the student with the skills and practices of bowling.

Topics: Analysis of approach, delivery, and follow-through; scoring and tournament play.

Physical Education 222. Advanced Stunts and Tumbling. One hour.

Purpose: To further the skill of tumbling and individual stunts.

Topics: Advanced pyramid building; program planning; snap-ups; flips; and balances.

Physical Education 305. Materials and Methods of Tennis. Two hours.

Prerequisite: Satisfactory performance of tennis skill tests.

Purpose: To give the student a knowledge of the principles, the theory of tennis, and teaching experience in this sport.

Topics: Location of material; stroke analysis; game situations; class organization; and teaching approach.

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

Prerequisite: Satisfactory performance of skill tests in swimming.

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

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

Physical Education 325. Materials and Methods of Baseball. Two hours.

Prerequisite: Satisfactory performance of skill tests in baseball.

Purpose: To give the student a knowledge of the principles and the theory of baseball and teaching experience in the activity.

Topics: Materials; class organization and teaching approaches.

Physical Education 345. Materials and Methods of Soccer. Two hours.

Prerequisite: Satisfactory performance of soccer skill tests.

Purpose: To give the student a knowledge of the principles and the theory of soccer and teaching experience in this activity.

Topics: Materials, class organization and teaching approaches.

Physical Education 355. Materials and Methods of Basketball. Two hours.

Prerequisite: Satisfactory performance of basketball skill tests.

Purpose: To give the student a knowledge of the principles and theory of basketball and teaching experience in the activity.

Topics: Materials, class organization and teaching approaches.

CLASSES FOR MEN ONLY

Physical Education 124. Wrestling. One hour.

Purpose: To learn the amateur 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 375. Materials and Methods of Football. Two hours.

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

Topics: Consideration of fundamentals; individual and team play; organization; and educational value of football.

Physical Education 395. Materials and Methods of Basketball. Two hours.

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

Topics: Consideration of fundamentals; individual and team play; organization; and educational value of basketball.

Physical Education 405. Materials and Methods of Baseball and Track. Two hours.

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

Topics: Consideration of fundamentals, individual and team play; organization; and educational value of baseball and track.

DEPARTMENT OF HOME ECONOMICS

Mrs. Call

Miss Gibson

Mrs. Short

The State Board of Vocational Education has approved this department for the training of teachers in Vocational Home Economics. Students who complete this course of 192 quarter hours and who receive the Bachelor of Science degree in Vocational Home Economics are eligible to teach in vocational home economics departments in high schools of the state.

The Home Economics Department offers training to meet the needs of the following classes of persons:

1. Teachers of Vocational Home Economics.
2. Individuals who desire sound preparation for making their homes.
3. Research and educational workers in commercial and industrial establishments.
4. Government field agents who understand rural life and know what kinds of improvements in the rural home are practical and desirable.
5. Students in other major fields who can benefit by elective courses in home economics.

REQUIREMENTS:

1. Students who wish to qualify as teachers of vocational home economics should read carefully the requirements for this degree which are to be found on pp. 54-55 of this catalog. They should also be guided by the suggested program on p. 62 in selecting their courses.

2. Students who are not interested in teaching home economics, but who wish to take a major in this field should consult the head of the department. They should choose a well-balanced sequence of courses. For example, a possible sequence is Home Economics 131, 141, 231, 301, 341, 351, 355, and 453. Other sequences may be arranged. A minimum of 36 hours is required for this major.

All courses are open to any students who have the prerequisites. Those courses which have no prerequisites are suggested as electives to students majoring in other departments.

DESCRIPTION OF COURSES

Home Economics 101. Orientation in Home Economics. Two hours.

Prerequisite: None.

Purpose: To introduce the purposes and aims of Home Economics.

Topics: Students reside in the Home Management House for six weeks, taking part in the housekeeping duties. This gives them a better understanding upon which to base their choice of a career. Simple skills and techniques of homemaking are taught. This helps students learn to live successfully with a small group of people. This course is open to all students regardless of major.

Home Economics 102. Nutrition for Elementary Teachers. Three hours.

Prerequisite: None.

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.

Topics: Recognition of the signs 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; ways to help children establish good food habits.

Home Economics 103. Home Nursing and Health of the Family. Three hours.

Prerequisite: None.

Purpose: To study the factors that influence general family health and the simple nursing procedures used in the treatment of the sick.

Topics: Physical care of mothers and infants; safety and sanitation of the home; cost of medical care; prevention of illness; first aid; and control of contagious diseases.

Time: Two one-hour lecture periods and one two-hour laboratory period per week.

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

Prerequisite: None.

Purpose: To help each student acquire a fundamental knowledge of practical nutrition, and 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; occupational and other activities; over-weight and under-weight; food in relation to general health; and evaluation of dietaries.

Time: Two one-hour lecture periods and one two-hour laboratory period per week.

Home Economics 131. Food Planning and Meal Preparation. Four hours.

Prerequisite: Home Economics 130.

Purpose: To help the student 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 one-hour lecture period and three two-hour laboratory periods per week.

Home Economics 140. Clothing Design and Selection. Three hours.

Purpose: To study design principles and individuality as a basis for the selection of satisfactory clothing.

Topics: Design principles and elements; the application of design to personal clothing selection and construction; and clothing budgets. Plans are made for construction projects in Home Economics 141.

Home Economics 141. Problems in Clothing Construction. Four hours.

Prerequisite: Home Economics 140.

Purpose: To learn fundamental principles of clothing construction, the use of the sewing machine, the use of commercial patterns, and other construction tools and equipment.

Topics: Use and care of the equipment used in clothing construction; the interpretation, alteration, and use of commercial patterns; fitting; and clothing construction processes.

Home Economics 190. Clothing Renovation and Construction. Two hours.

Prerequisite: None.

Purpose: To teach adults methods of clothing construction and better management of clothing needs.

Topics: Methods of clothing construction and renovation of all types of garments. Each individual receives assistance with her own personal problems. Beginners are taught how to sew, and more experienced sewers make clothing according to their ability. The construction of all types of garments is practiced. Non-home economics students should find this course helpful.

Time: Two two-hour laboratory periods per week.

Home Economics 231. Advanced Meal Preparation and Table Service. Four hours.

Prerequisite: Home Economics 131.

Purpose: To provide actual, practical, and varied experience 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, banquets, and other special occasions; marketing, budgeting, and accounting.

Time: Three two-hour laboratory periods and one one-hour lecture per week.

Home Economics 240. Textiles. Three hours.

Purpose: To study the construction and uses of textiles as applied to house furnishings and clothing.

Topics: The recognition of the various materials of which fabrics are made. The course includes the origin, manufacture, durability, uses, and care of natural and synthetic fibers.

Time. Two two-hour laboratory periods and one one-hour lecture per week.

Home Economics 241. Family Clothing Problems. Two hours.

Prerequisites: Home Economics 141 and 240.

Purpose: To study problems involved in the selection, consumption, construction and care of clothing for the family.

Topics: Economic problems with which families are faced in meeting their clothing needs; clothing for children of different age groups; selection of garments for all members of the family; the construction of a child's garment.

Time: One lecture and one two-hour laboratory period per week.

Home Economics 280. Art Needlework. Three hours.

Purpose: To acquire skill in the use of needlework in making objects of art.

Topics: The course provides for opportunity in knitting, rug-making, millinery, upholstery, making of slip covers, needlepoint, and other home crafts. Individual problems are chosen according to needs and interests of students.

Home Economics 290. Food Preservation. Three hours.

Prerequisite: None.

Purpose: To help the student acquire knowledge of the fundamental principles and skills involved in the production and preservation of family food for present and future use.

Topics: Emphasis on planning and conservation of the family food supply; practical laboratory work in food preservation including fruits, vegetables, meats, jams, and jellies, use and comparison of various methods of preservation such as heat, cold, dehydration, and brining.

Home Economics 301. Consumer Problems. Four hours.

Prerequisite: Economics 201.

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.

Home Economics 331. Experimental Cookery. Three hours.

Prerequisite: Home Economics 231.

Purpose: To give students an experimental approach to a study of principles underlying food preparation.

Topics: Standard products and factors which affect them; individual topics for investigation as related to ingredients used, time, temperature, methods of mixing, etc.

Time: Three two-hour laboratory periods per week.

Home Economics 332. Quantity Cookery. Three hours.

Prerequisite: Home Economics 231.

Purpose: To give students experience in planning, buying, storage, and preparation of food in large quantity.

Topics: Menu planning; amounts needed to serve various sized groups; food costs; use of equipment; food preparation in quantity; and food service. The laboratory work will be done in the college cafeteria in cooperation with the dietitian.

Time: One lecture-discussion and two two-hour laboratory periods per week.

Home Economics 333. Nutrition. Four hours.

Prerequisites: Home Economics 231 and Chemistry 311.

Purpose: To help the student develop a scientific appreciation and knowledge of food chemistry and its relation to human nutrition.

Topics: Energy, metabolism, fats, carbohydrates, proteins, digestion, and enzymes; dietary problems; requirements for different ages, sexes, conditions; national nutrition problems.

Time: Three one-hour lectures and one two-hour laboratory periods per week.

Home Economics 335. Food Demonstrations. Two hours.

Prerequisite: Home Economics 231.

Purpose: To acquire skill and ease in demonstrating to a group.

Topics: Principles and techniques involved in demonstration in foods and nutrition; and practical experiences in demonstrations. The skills developed can be applied to the needs of business, classroom and community teaching, and extension work.

Time: Two two-hour laboratory periods per week.

Home Economics 341. Intermediate Clothing Construction. Four hours.

Prerequisites: Home Economics 241 and Art 162.

Purpose: To give the student more skill in the art of clothing construction; also to apply the fundamental principles of design to dress for individuals.

Topics: The selection, the adaptation, and the appreciation of dress of good taste; the application of different finishing techniques; creative work. The individual is used as a basis for all choices, and garments are constructed from original and adapted designs.

Time: Four two-hour laboratory periods per week.

Home Economics 351. Housing. Four hours.

Prerequisite: Home Economics 301.

Purpose: To study the economic and sociological problems and modern trends in housing.

Topics: House plans and their influence on family life; housing laws; zoning; household equipment; 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.

Home Economics 355. The Young Child and his Family. Four hours.

Prerequisite: Education 350.

Purpose: To study the development and practical training of the child in relation to his family and the activities of family life, from birth to six years of age.

Topics: The home; parents and their responsibilities; training the child in the formation of good physical, mental, social and emotional habits; applications of child psychology; analyses of actual happenings; toys and play equipment.

Time: Four one-hour lecture periods per week.

Home Economics 431. Advanced Nutrition. Four hours.

Prerequisite: Home Economics 333.

Purpose: To study dietary problems related to diseases and various physiological conditions.

Topics: Vitamins; minerals; prevention and treatment of general malnutrition; diet in common diseases; infant feeding; adequate diets at different cost levels.

Home Economics 441. Tailoring. Four hours.

Prerequisite: Home Economics 341.

Purpose: To apply the principles of tailoring and the special construction processes involved.

Topics: Individual problems are chosen with emphasis on the selection of suitable materials, fitting, and construction problems involved. Tailored garments of wool and wool substitutes are given major consideration.

Home Economics 451. Interior Decoration. Four hours.

Prerequisites: Home Economics 341 and 351.

Purpose: To study the interior of the house as a satisfactory background for the family.

Topics: Design, backgrounds, furniture, windows and their treatment, accessories, and other topics suggested by the needs and interests of the students; practical problems.

Home Economics 452. Home Management Methods. Three 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 and Economic Problems of the Family. Four hours.

Prerequisite: Junior standing. Home Economics 351 is recommended.

Purpose: To study balanced family relationships with a background of parenthood education, child training and social thinking.

Topics: 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. Five 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 quarter.

Home Economics 470. Methods of Teaching Vocational Home Economics. Four 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; types of work included in the present day program; day school classes, adult classes, and part-time classes; working with school lunch programs; the community cannery; working with elementary teachers; 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; home economics club supervision.

Home Economics 475. Directed Teaching in Home Economics. Eight hours.

Prerequisite: Home Economics 470.

Purpose: Application of methods in teaching home economics and experience in dealing with problems of a home economics teacher in the school and community. Each student in this course is required to observe and teach a minimum of eighty class meetings of sixty minutes each, at least half of this time to be used for actual teaching in the training school

home economics department, planning and teaching units in at least three phases of the work. 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.

DEPARTMENT OF INDUSTRIAL ARTS

Mr. Mays

Mr. Black

REQUIREMENTS:

<i>For a Major:</i>	Qu. Hrs.
103, 110, 111, 203, 210, 211, 304, 311, 385, 475.....	36
Additional requirements in related fields:	
Art 101 and 341	6
Mathematics 101 and 151	9
Physics 131, 132, 133	12
<i>For a Minor:</i>	
103, 110, 111, 203, 211	19
Other courses in industrial arts	5
	<hr/> 24

DESCRIPTION OF COURSES

Industrial Arts 103. Elementary Mechanical Drawing.**Four 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 104. Blueprint Reading. Two hours.

Prerequisites: Industrial Arts 103 and credit in, or simultaneous study of Physics 132.

Purpose: To give instruction in the use and interpretation of construction and electrical blueprints.

Topics: Symbols, construction blueprints; electrical wiring blueprints; electrical machinery blueprints.

Industrial Arts 110. 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. Four hours.

Purpose: To present the fundamental principles of wood-working and the use and care of common tools.

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

Industrial Arts 203. Advanced Mechanical Drawing. Four 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 204. Commercial Wiring. Four hours.

Prerequisite: Industrial Arts 104.

Purpose: To give instruction and experience in the various commercial wiring methods.

Topics: Low-voltage signal circuits; lighting and power circuits; wiring methods with rigid conduit, electrical metallic tubing, flexible conduit, armored cable, non-metallic sheathed cable, and surface raceway.

One hour lecture-discussion and six hours shop work each week.

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. Four 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 304. Architectural Drawing. Four hours.

Prerequisites: Industrial Arts 103 and 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. Four hours.

Prerequisites: Industrial Arts 111 and 211.

Purpose: To give advanced instruction in furniture construction.

Topics: Emphasis on the operation of stationary and portable machines; machining stock for one project which must be assembled and finished.

Industrial Arts 319. Farm Shop. Four 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.

Industrial Arts 351. House Planning and Construction. Four hours.

Purpose: To give the prospective home owner a general study of building materials.

Topics: Planning and construction of small homes (non-technical); building materials and fixtures.

Industrial Arts 383. Art Metal Work. Four 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 385. General Metal. Four hours.

Purpose: To give training in general metal work.

Topics: Making selected projects in sheet metal, bench work, and the use of the metal lathe.

Industrial Arts 460. History of Industrial Arts. Four hours.

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

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. Four 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. Methods of Teaching Industrial Arts. Four 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.

DEPARTMENT OF MUSIC

Mr. George
Miss Sweet

Mr. Thoman

Miss Carpenter
Mr. Huffman

REQUIREMENTS:

For a Teaching Major:

Qu. Hrs.

Practical Music:

Voice	2
Strings	2
Piano (See piano requirements for music majors)	3
Woodwind	1
Brasswind	1
Percussion	1
Chorus	4
Band or Orchestra	3

Theory of Music:

Sight Singing and Ear Training	12
Harmony	10
Instrumentation	3

Methods:

Elementary and Secondary	4
Conducting	2
History and Appreciation	6

Total..... 54

For a Non-Teaching Major:

Practical Music:

Piano	3
Elective	3-9

Theory of Music:

Sight Singing and Ear Training	8
Harmony	10
Elective	0-6

Music History and Appreciation:

History and Appreciation	6
Elective	0-3

Total..... 36

For a Teaching Minor:

Practical Music:

Voice	1
Strings	1
Piano	3
Woodwind	1
Brasswind	1
Percussion	1
Chorus	3
Band or Orchestra	2

Theory of Music:

Sight Singing and Ear Training	6
Harmony	6

Methods:

Elementary or Secondary	2
Conducting	2
History and Appreciation	3

Total..... 32

For a Non-Teaching Minor:

Practical Music:

Piano	2
Elective	2-7

Theory of Music:

Sight Singing and Ear Training	6
Harmony	6
Elective	0-5

Music History and Appreciation:

History and Appreciation	3
Elective	0-3

Total..... 24

AREA MAJOR FOR PUBLIC SCHOOL MUSIC TEACHERS

Total requirements in practical music, music theory, methods, and history and appreciation.

Practical Music:

Qu. Hrs.

Voice	3
Strings	2
Piano (See piano requirements for music majors)	6
Woodwind	2
Brasswind	2
Percussion	1
Chorus	6
Band or Orchestra	6
Elective	8

Theory of Music:	
Sight Singing and Ear Training	12
Harmony	10
Counterpoint	2
Form and Analysis	2
Instrumentation	3
Methods:	
Elementary and Secondary	8
Conducting	2
History and Appreciation	9
Seminar	2
Total.....	80

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 \$10.00 per quarter for one hour each week with a faculty member or \$5.00 per quarter 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 six hours on piano and must pass successfully an examination before an examining committee named by the head of the music department.

The examination material will be selections chosen from the following:

1. Czerny, Studies, Volume I, Part II (Germer)
Burgmuller, Studies, Book II, Op. 100
Heller, Studies, Op. 125
2. Piano selections memorized of approximately third grade difficulty

3. Sight reading of four-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, 13. Voice. One hour each.

Prerequisite: Music 231.

Presentation of fundamentals of voice placement, breathing, diction, and interpretation. One hour in recitation, three hours of outside preparation and participation in chorus or ensemble are required.

Music 14, 15, 16. Stringed Instruments. One hour each.

Presentation of fundamental technique of playing the violin and other stringed instruments of the viol family. Two $\frac{1}{2}$ hour lessons per week, three hours of outside preparation, and participation in ensemble or orchestra are required.

Music 117, 118, 119. 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, 219, 317, 318, 319, 417, 418, 419. 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, 53. Woodwind Instruments. One hour each.

Instruction in clarinet, flute, oboe, or bassoon. Two $\frac{1}{2}$ hour lessons per week, three hours of outside preparation, and rehearsals designated by the instructor are required.

Music 54, 55, 56. Brass Instruments. One hour each.

Instruction in cornet, horn, trombone, baritone, or bass. Two $\frac{1}{2}$ hour lessons per week, three hours of outside preparation, and rehearsals designated by the instructors are required.

Music 57, 58, 59. Percussion Instruments. One hour each.

Instruction in snare drum with additional instruction on the other percussion instruments toward the end of the first quarter. Two $\frac{1}{2}$ hour lessons per week, three hours of outside preparation, and rehearsals designated by the instructor are required.

ENSEMBLES

Note: A maximum of 12 quarter 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 18 quarter 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. Two to three periods per week. One hour of credit for each quarter of participation.

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

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

Small Ensembles: Open only to advanced students and 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, 88. Small Instrumental and Vocal Ensembles. One hour each.

THEORY OF MUSIC

Music 100. Rudiments of Music. Two hours.

A course in the fundamentals of music notation and the basic elements of music theory. Required for elementary certificates. Prerequisite for Music 121. Offered during the Fall and Spring quarters.

Three periods per week.

Music 231. 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 quarter.

Three periods per week.

Music 232. Sight Singing and Ear Training II. Two hours.

Continuation of Music 231. Prerequisite: Music 231. Required for a major or minor. Offered during the Winter quarter.

Three periods per week.

Music 233. Sight Singing and Ear Training III. Two hours.

Continuation of Music 232. Prerequisite: Music 232.

Required for a major or minor. Offered during the Spring quarter.

Three periods per week.

Music 331. Sight Singing and Ear Training IV. Two hours.

A continuation of Music 233, which is a prerequisite. Required for a major. Offered during the Fall quarter.

Three periods per week.

Music 332. Sight Singing and Ear Training V. Two hours.

A continuation of Music 331, which is a prerequisite. Required for a major. Offered during the Winter quarter.

Three periods per week.

Music 333. Sight Singing and Ear Training VI. Two hours.

A continuation of Music 332, which is a prerequisite. Required for a major. Offered during the Spring Quarter.

Three periods per week.

Music 341. Harmony I. Two hours.

Prerequisite: Ability to play and read third grade piano music.

A course in the fundamentals of melodic, rhythmic, and harmonic elements in music including scales, intervals, and triads presented as singing, dictation, and keyboard work; part writing of triads. Credit is granted only upon the successful completion of Music 231. Required for a major or minor. Offered during the Fall Quarter.

Music 342. Harmony II. Two hours.

Prerequisite: Music 341.

Continuation of Music 341. Inversions of triads; harmonization from given basses and melodies; original work required; practical application of materials. Credit is granted only upon the successful completion of Music 232. Required for a major or minor. Offered during the Winter Quarter.

Music 343. Harmony III. Two hours.

Prerequisite: Music 342.

The dissonance and its resolution; original work required; practical application of materials. Credit is granted only upon the successful completion of Music 233. Required for a major or minor. Offered during the Spring Quarter.

Music 441. Harmony IV. Two hours.

Prerequisite: Music 343.

Introduction of key relationship and modulation; altered and mixed chords; and original work required. Credit is granted only upon the successful completion of Music 331. Required for a major. Offered during the Fall Quarter.

Music 442. Harmony V. Two hours.

Prerequisite: Music 441.

Modulation continued; non-harmonic intervals; and application of materials to original work. Credit is granted only upon the successful completion of Music 332. Required for a major. Offered during the Winter Quarter.

Music 443. Counterpoint. Two hours.

Prerequisite: Music 442.

Elementary counterpoint in two and three parts, with analysis of simple contrapuntal designs. Credit is granted only upon the successful completion of Music 333. Required for a major. Offered during the Spring Quarter.

Music 436. Instrumentation. Three hours.

Prerequisite: Music 343.

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 Fall Quarter.

Music 437. Form and Analysis. Two hours.

Prerequisite: Music 442.

Study of the elements of form and harmony, and analysis of Song Forms, Variation Forms, and larger forms such as Rondos, Sonatas, Fugues, etc.

MUSIC EDUCATION

Music 121. Music for the Primary Grade 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 primary grades. Winter and Spring quarters.

Music 122. Music for the Intermediate Grade Teacher. Two hours.

Prerequisite: Music 121 or permission of head of department.

A continuation of Music 121 with emphasis on materials and methods for the intermediate grades. Spring quarter.

Music 325. Materials and Methods for Primary Grades. Two hours.

Prerequisite: Music 233.

A course in materials and methods for the primary grades. Elective for a major or minor. Fall quarter.

Music 326. Materials and Methods for Intermediate Grades. Two hours.

Prerequisite: Music 233.

A course in music education for the intermediate grades. Elective for a major or minor. Winter quarter.

Music 375. Materials and Methods for Junior High School. Two hours.

Prerequisite: Music 233.

Materials and methods in the Junior School; discussion of the various activities including chorus, glee club, orchestra, band, practical or applied music. 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. Fall quarter.

Music 376. Materials and Methods for Senior High School. Two hours.

Prerequisite: Music 233.

Materials and methods in the Senior High School; discussion of the various activities including chorus, glee club, orchestra, band, practical or applied music, history and appreciation, and theory. Elective for a major or minor. Winter quarter.

Music 471. Conducting. Two hours.

Prerequisite: Music 233.

Required for major and minor.

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