

= Dr. Clough =

GRADUATE BULLETIN

1969-1971

MOREHEAD STATE UNIVERSITY / Morehead, Kentucky

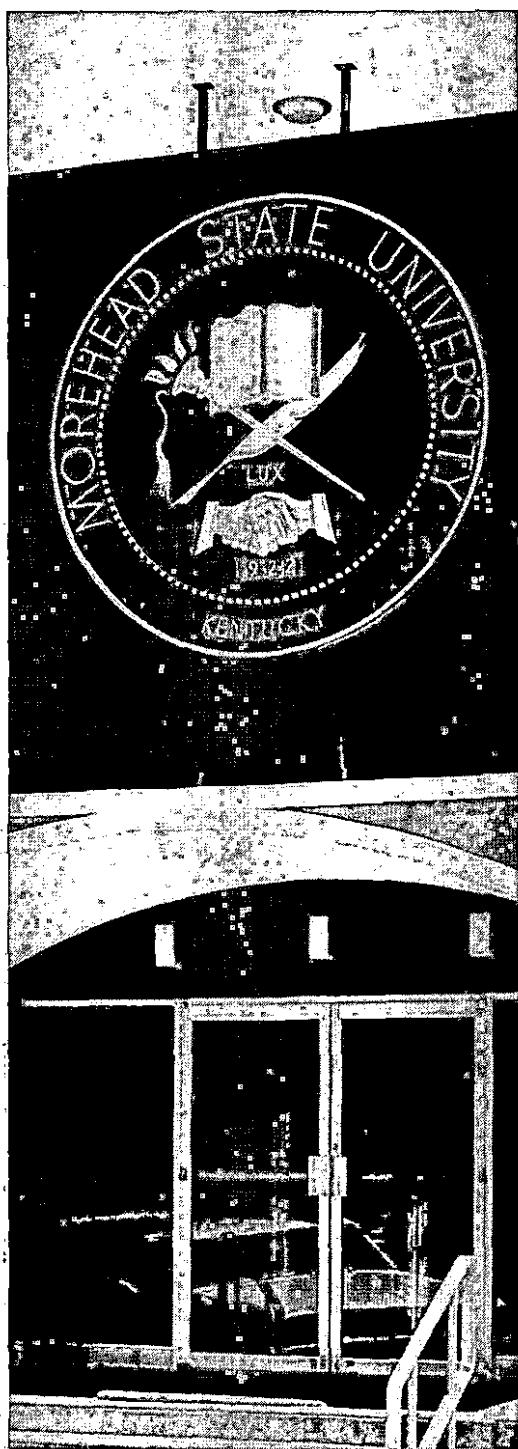
**BULLETIN
OF
MOREHEAD
STATE UNIVERSITY
MOREHEAD, KENTUCKY**

**GRADUATE BULLETIN
1969 - 71**

This bulletin was prepared by Morehead State University
and paid from state funds.

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THE UNIVERSITY

University Calendar

Administration and
Graduate Faculty

General Information



University Calendar, 1969-70

FIRST SEMESTER

September 13	Saturday	Registration of part-time students for night and Saturday classes
September 15	Monday A.M.	Freshmen Orientation begins
	Monday P.M.	Orientation of transfer students
September 16	Tuesday P.M.	Registration of seniors and graduate students
September 17	Wednesday A.M.	Registration of juniors and sophomores
	Wednesday P.M.	Registration of juniors and sophomores
September 18	Thursday	Registration of freshmen
September 19	Friday	Registration of freshmen
September 22	Monday	Classes begin (MWF schedule)
September 29	Monday	Last day to register for full load
October 13	Monday	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 17	Monday	Freshman grade reports to Data Processing Mid-term grade reports to the Registrar's Office
November 26	Wednesday	Thanksgiving Holiday begins at 11:20 A.M.
December 1	Monday	Class work resumes at 8:00 A.M.
December 19	Friday	Christmas Holiday begins at 11:20 A.M.
January 5	Monday	Class work resumes at 8:00 A.M.
January 23, 26, 27 and 28		Final examinations
January 30	Friday	First semester closes at 4:30 P.M.

SECOND SEMESTER

February 4	Wednesday A.M.	Orientation of new students
	Wednesday P.M.	Registration of seniors and graduate students
February 5	Thursday A.M.	Registration of juniors and sophomores
	Thursday P.M.	Registration of juniors and sophomores
February 6	Friday	Second semester closes at 12:00 M.
February 7	Saturday	Registration of freshmen

February 9	Monday	Registration of freshmen
February 11	Wednesday	Registration of part-time students for night and Saturday classes
February 16	Monday	Classes begin (MWF schedule)
March 2	Monday	Last day to register for full load
March 30	Monday	Last day to register for credit
April 11	Saturday	Students who drop courses after this date with automatically receive marks of "E" in the courses dropped
April 20	Monday	Mid-term grade reports to the Registrar's Office
June 1	Monday	Spring Vacation begins at 12:00 M.
June 6	Saturday	Class work resumes at 8:00 A.M.
		Final examinations begin

Summer Session 1970

June 15 and 16	Monday and Tuesday	Registration
June 17	Wednesday	Classes begin
August 8	Saturday	Summer session closes

University Calendar, 1970 - 71

FIRST SEMESTER

September 12	Saturday	Registration of part-time students for night and Saturday classes
September 14	Monday A.M.	Freshmen Orientation begins
	Monday P.M.	Orientation of transfer students
September 15	Tuesday A.M.	Registration of seniors and graduate students
	Tuesday P.M.	Registration of juniors and sophomores
September 16	Wednesday A.M.	Registration of juniors and sophomores
	Wednesday P.M.	Registration of freshmen
September 17	Thursday	Registration of freshmen
September 18	Friday	Classes begin (MWF schedule)
September 21	Monday	Last day to register for full load
September 28	Monday	Last day to register for credit
October 12	Monday	Students who drop courses after this date will automatically receive marks of "E" in the courses dropped
October 19	Monday	Freshman grade reports to Data Processing
November 16	Monday	Mid-term grade reports to the Registrar's Office
November 25	Wednesday	Thanksgiving Holiday begins at 11:20 A.M.
November 30	Monday	Class work resumes at 8:00 A.M.
December 18	Friday	Christmas Holiday begins at 11:20 A.M.
January 4	Monday	Class work resumes at 8:00 A.M.
January 22, 25, 26, and 27		Final examinations
January 29	Friday	First semester closes at 4:30 P.M.

University Calendar, 1970-71

SECOND SEMESTER

February 3	Wednesday A.M.	Orientation of new students Registration of seniors and graduate students
	Wednesday P.M.	Registration of juniors and sophomores
February 4	Thursday A.M.	Registration of juniors and sophomores
	Thursday P.M.	Registration of freshmen
February 5	Friday	Registration of freshmen
February 6	Saturday	Registration of part-time students for night and Saturday classes
February 8	Monday	Classes begin (MWF schedule)
February 10	Wednesday	Last day to register for full load
February 15	Monday	Last day to register for credit
March 1	Monday	Students who drop courses after this date will automatically receive marks of "E" in the courses dropped
March 29	Monday	Mid-term grade reports to the Registrar's Office
April 10	Saturday	Spring Vacation begins at 12:00 M.
April 19	Monday	Class work resumes at 8:00 A.M.
May 31	Monday	Final examinations begin
June 5	Saturday	Second semester closes at 12:00 M.

Summer Session 1971

June 14 and 15	Monday and Tuesday	Registration
June 16	Wednesday	Classes begin
August 7	Saturday	Summer session closes

Board of Regents

WENDELL P. BUTLER.....	Frankfort, Kentucky
State Superintendent of Public Instruction, ex officio chairman	
W. H. CARTMELL.....	Maysville, Kentucky
LLOYD CASSITY.....	Ashland, Kentucky
JERRY F. HOWELL	Jackson, Kentucky
CLOYD McDOWELL	Harlan, Kentucky
B. F. REED	Drift, Kentucky
CHARLES D. WHEELER.....	Ashland, Kentucky
FRANKLIN M. MANGRUM	Morehead, Kentucky
Faculty Representative	
BILL BRADFORD	Russell, Kentucky
Student Representative	

OFFICERS OF THE BOARD

WENDELL P. BUTLER	Chairman
W. H. CARTMELL	Vice-Chairman
JOYCE HART	Secretary
RUSSELL MCCLURE	Treasurer

Administrative Staff

Office

ADRON DORAN, *President*.....Ad 201

ACADEMIC AFFAIRS

WARREN C. LAPPIN, *Vice President for Academic Affairs
and Dean of the Faculty*.....Ad 303

MORRIS L. NORFLEET, *Vice President for Research
and Development*Ed-A 903

PAUL FORD DAVIS, *Dean of Undergraduate Programs*.....Ad 204

JOHN R. DUNCAN, *Dean of Graduate Programs*.....Ad 203

C. NELSON GROTE, *Dean, School of Applied Sciences
and Technology*IA 210

JAMES H. POWELL, *Dean, School of Education*.....Ed-A 201-F

JOHNSON E. DUNCAN, *Dean, School of Humanities*.....B 107

WILLIAM C. SIMPSON, *Dean, School of Sciences and Mathematics*.....L 123

ROSCOE PLAYFORTH, *Dean, School of Social Sciences*.....R 206

LINUS A. FAIR, *Registrar*AD 205

JERRY FRANKLIN, *Associate Registrar*AD 205

MARY ELLA WELLS, *Assistant Registrar*AD 205

BILL B. PIERCE, *Director of Admissions*.....AD 304

JACK D. ELLIS, *Director of Libraries*.....Library

WILLIAM C. HAMPTON, *Director of Reading Clinic*.....Ed-B 204

HAZEL WHITAKER, *Director of Testing*.....Ed-A 501-E

NORMAN TANT, *Director of Instructional Media*.....Ed-B 210

RONDAL D. HART, *Director of University Breckinridge School*.....Breck

THOMAS A. HARRIS, *Professor of Military Science*.....Button

STUDENT AFFAIRS

ROGER L. WILSON, *Vice President for Student Affairs*.....Ad 301

BUFORD CRAGER, *Dean of Students*.....AD 301

ANNA MAE RIGGLE, *Associate Dean of Students*.....Ad 301

RONALD L. WALKE, *Associate Dean of Students*.....Ad 301

ELMER ANDERSON, *Student Finance Officer*.....Ad 305

LARRY STEPHENSON, *Director of Student Housing*.....Ad 305

JACK HENSON, *Director, Doran University Center*

RUSSELL KIRK, *Director of Security*

UNIVERSITY AFFAIRS

RAYMOND R. HORNBACK, <i>Vice President for University Affairs</i>	Ad 104
MONROE WICKER, <i>Director of School Relations</i>	Ad 101
<i>Director of Alumni Relations</i>	Ad 105
GEORGE BURGESS, <i>Director of Photography</i>	Ad 106
MARTIN HUFFMAN, <i>Director of Publications and Printing</i>	Ad 103
KEITH KAPPES, <i>Assistant in Public Information</i>	Ad 102
DALE GREER, <i>Assistant in Public Information — Radio and TV</i>	Ad 102

BUSINESS AFFAIRS

RUSSELL M. McCLURE, <i>Vice President for Fiscal Affairs</i>	Ad 202
ROBERT W. STOKES, <i>Assistant Director of Business Affairs</i>	Ad 202
WILLIAM EWERS, <i>Director of Food Services</i>	Ad 202
VINSON WATTS, <i>Director of Non-Academic Personnel</i>	Ad 206
GLEN BOODRY, <i>Director of Physical Plant</i>	RSB

GRADUATE COUNCIL

DR. JOHN R. DUNCAN.....	<i>Dean of Graduate Programs</i>
DR. PAUL FORD DAVIS.....	<i>Dean of Undergraduate Programs</i>
MR. JOHN GARTIN.....	<i>Associate Professor of Geography</i>
DR. LAWRENCE E. GRIESINGER.....	<i>Professor of Education</i>
DR. PALMER HALL.....	<i>Professor of Education</i>
DR. MARGARET HEASLIP.....	<i>Professor of Biology</i>
DR. W. EDMUND HICKS.....	<i>Professor of History</i>
DR. GEORGE MONTGOMERY.....	<i>Professor of Business Education</i>
DR. FREDERICK MUELLER.....	<i>Associate Professor of Music</i>
DR. CHARLES A. PAYNE.....	<i>Professor of Chemistry</i>
DR. JOSEPH PRICE.....	<i>Professor of English</i>
DR. JEAN K. SNYDER.....	<i>Professor of Home Economics</i>

Two graduate students will be selected for membership.

Graduate Faculty

(The asterisk preceding a name indicates Associate Graduate Faculty.)

SCHOOL OF APPLIED SCIENCE AND TECHNOLOGY

Agriculture

Professor Charles M. Derrickson, B.S., M.S., Ph.D.

Associate Professor Paul S. Cain, B.S., M.S., Ph.D.

Business

Professor Phyllis Ann Barker, B.S., M.S., Ed.D.

Professor George Montgomery, B.S., M.B.E., Ed.D.

Associate Professor Doris Berry, B.S., M.S., Ed.D.

*Associate Professor Alex D. Conyers, B.S., M.B.A.

*Associate Professor Sue Young Luckey, B.S., A.M.

*Assistant Professor Dennis Phelps, B.A., A.M.

Home Economics

Professor Jean K. Snyder, B.S., M.S., Ph.D.

Associate Professor Thelma Lee Bell, B.S., A.M., Ph.D.

*Associate Professor Patti V. Bolin, A.B., B.S., A.M., A.C. in Ed.

Industrial Education

Professor C. Nelson Grote, B.S., M.Ed., Ed.D.

Professor Norman N. Roberts, B.S., M.S., Ph.D.

*Associate Professor Tim Baker, B.S., M.S.

*Associate Professor Robert E. Newton, B.S., M.S. in Ed.

*Assistant Professor Edward Nass, B.S., M.S.

SCHOOL OF SCIENCES AND MATHEMATICS

Biology

Professor Margaret B. Heaslip, B.S., M.S., Ph.D.

Professor Madison Pryor, A.B., B.S., A.M., Ph.D.

Associate Professor David M. Brumagen, B.S., M.S., Ph.D.

Associate Professor James R. Spears, B.S., M.S., Ph.D.

*Associate Professor Allen Lake, B.S., M.S.

*Associate Professor Daryl S. Bates, A.B., Ph.D.

*Assistant Professor Woodrow W. Barber, B.S., A.M.

*Assistant Professor Howard Lee Setser, B.S., A.M., M.S.

*Assistant Professor Charles Fugler, B.S., M.S., Ph.D.

Chemistry

- Professor Charles A. Payne, B.S., M.S., Ph.D.
- Professor Lamar B. Payne, B.S., M.S., Ph.D.
- Associate Professor Verne A. Simon, B.S., M.S., Ph.D.
- Associate Professor Dwight Williams, B.S., M.S., Ph.D.
- *Associate Professor Charles J. Jenkins, B.S., M.S.

Geoscience

- Professor Jules R. DuBar, B.S., M.S., Ph.D.
- Professor H. W. Straley, B.S., Ph.D.
- *Assistant Professor James R. Chaplin, B.S., M.S.
- *Assistant Professor John C. Philley, B.S., M.S.

Mathematics

- Professor Billy Ray Nail, A.B., A.M., Ph.D.
- *Associate Professor Lake C. Cooper, A.B., A.M.
- *Associate Professor Elizabeth Mayo, A.B., M.S.
- *Assistant Professor Rolene B. Cain, A.B., A.M.
- *Assistant Professor Glenn Johnston, B.S., M.S., Ph.D.
- *Assistant Professor Dixie M. Moore, A.B., A.M.

Physics

- Professor William C. Simpson, A.B., M.S., Ph.D.
- Assistant Professor Russel M. Brengelman, B. of Engr. Physics, M.S., Ph.D.
- Assistant Professor David R. Cutts, B.S., M.S., Ph.D.
- Assistant Professor Charles J. Whidden, B.S., M.S., Ph.D.

Science Education

- Professor Crayton T. Jackson, A.B., A.M., Ed.D.
- *Assistant Professor William R. Falls, B.S., M.A.

SCHOOL OF EDUCATION

Professional Education

- Professor Milan B. Dady, A.B., M.E., Ed.D.
- Professor Paul Ford Davis, A.B., A.M., Ed.D.
- Professor Lawrence E. Griesenger, A.B., M. Ed., Ed.D.
- Professor Palmer L. Hall, A.B., A.M., Ed.D.
- Professor Warren C. Lappin, A.B., A.M., Ed.D.
- Professor Robert C. Needham, A.B., A.M., Ed.D.
- Professor Morris L. Norfleet, B.S., M.S., Ph.D.
- Professor Mary P. Northcutt, A.B., A.M., Ed.D.
- Professor Ben K. Patton, A.B., A.M., Ph.D.

- Professor James H. Powell, A.B., A.M., Ed.D.
 Professor Lawrence R. Stewart, A.B., A.M., Ed.M., Ed.D.
 Professor Norman Tant, B.S., A.M., Ph.D.
 Associate Professor Harold C. Ave, B.S., A.M., M.S., Ph.D.
 *Associate Professor Reedus Back, B.S., M.S.
 Associate Professor Leonard E. Burkett, B.S., A.M., Ed.D.
 Associate Professor Nona Burress, B.S., A.M., Ed.D.
 *Associate Professor Thelma C. Caudill, A.B., A.M.
 Associate Professor Charles M. Chrisman, B.S., A.M., Ed.D.
 Associate Professor Orion F. Frye, B.S., A.M., Ph.D.
 *Associate Professor Octavia W. Graves, A.B., A.M.
 Associate Professor William C. Hampton, A.B., A.M., Ed. D.
 Associate Professor Raymond R. Hornback, A.B., A.M., Ed.D.
 Associate Professor William Ottis Murphy, A.B., A.M., Ed.S., Ed.D.
 Associate Professor John Payne, B.A., M.S., Ed.D.
 *Associate Professor John D. Stanley, B.S., M.S.
 Associate Professor Charles W. Riddle, A.B., B.D., M.Ed., Ed.D.
 *Associate Professor Hazel W. Whitaker, A.B., A.M.
 Associate Professor Clark D. Wotherspoon, B.S., A.M., Ed.D.
 Assistant Professor Russell Bowen, B.S., M.S., Ed.D.
 Assistant Professor Morris Caudill, A.B., A.M., Ed.D.
 *Assistant Professor George W. Eyster, B.S., M.S., A.M., Ed.S.
 *Assistant Professor Charles L. Kincer, B.S., M.S., (on leave)
 *Assistant Professor R. Donald Miller, A.B., A.M., (on leave)
 *Assistant Professor N. Harold Rose, B.S., M. Ed., Ph.D.
 *Instructor Elaine R. Kirk, B.S., M. Ed.

Health, Physical Education, and Recreation

- Professor Paul A. Raines, B.S., A.M., Ph.D.
 Professor Mohammed Sabie, B.S., A.M., Ed.D.
 Associate Professor Edd Luke, B.S., M.S., Ed.D.
 Associate Professor Earl J. Bentley, B.S., M.S., Ed. D.
 Associate Professor Charles B. Thompson, B.S., M.S., Ed. D.
 *Assistant Professor Nan K. Ward, A.B., A.M., Ed.D.
 *Assistant Professor Rex Chaney, A.B., A.M., R.Ed.
 Assistant Professor Harry Sweeney, B.S., M.S., Ed.D.

Psychology

- Professor M. Adele Berrian, B.M., A.B., A.M., Ph.D.
 Professor L. Bradley Clough, A.B., B.S., M.S., Ph.D.
 Associate Professor Sarah Haycraft, B.S., A.M., Ph.D.
 *Associate Professor Francis Osborne, A.B., M.S., Ph.D.

Assistant Professor James E. Gotsick, B.S., M.Ed., Ph.D.

Assistant Professor Henry Stukuls, A.B., M.S., Ph.D.

Library Science

Associate Professor Jack D. Ellis, A.B., A.M., Ed.D.

*Associate Professor Clarica Williams, A.B., B.S. in Lib. Sci., A.M.

SCHOOL OF HUMANITIES

Art

Professor Henry Glover, A.B., A.M.

English

Professor Lewis W. Barnes, B.S., B.P.H.E., A.B., LL.B., A.M., Ph.D.
(English), D. Lit., Ph.D. (Psych.)

Professor Ruth B. Barnes, A.B., A.M., Ph.D., D. Lit.

Professor Charles Pelphrey, A.B., A.M., Ph.D.

Professor Joseph E. Price, A.B., B.D., A.M., Ph.D.

Professor M. K. Thomas, A. of Div., A.M., M.Th., Ed.D.

Associate Professor Robert A. Collins, A.B., A.M., Ph.D.

*Associate Professor James A. Still, A.B., A.M.

Assistant Professor Edward E. Samaha, A.B., A.M., Ph.D.

Foreign Languages

Professor Olga Mourino, A.B., Ed.D., Ph.D.

*Associate Professor Vito de Caria, A.B., A.M., Ph.D.

Music

Professor William Bigham, B.M.E., M.M., Ph.D.

Professor Johnson E. Duncan, B.M.E., M.M., Ph.D.

Professor E. Glenn Fulbright, B.S., B.M., M.M., Ph.D.

Associate Professor David Appleby, B.A., B.M., M.A., M.S.M., Ph.D.

*Associate Professor James R. Beane, B.M., M.M.

*Associate Professor Douglas Engelhardt, B.M., M.M.E.

Associate Professor Robert Hawkins, B.S., M.S., Ed.D.

Associate Professor Frederick Mueller, B.M., M.M., D. Mus.

Associate Professor John K. Stetler, B.M., M.M.

Philosophy

Professor Franklin M. Mangrum, A.B., Ph.D.

*Associate Professor George M. Luckey, A.B., A.M.

Speech

Professor Frederick Voigt, B.S., M.S., Ph.D.

Associate Professor Jack E. Wilson, A.B., A.M., Ph.D.

*Assistant Professor Jackson Barefield, B.A., A.M., Ph.D.

SCHOOL OF SOCIAL SCIENCES**Economics**

Professor Louis S. Magda, A.B., Ph.D.

Professor Thomas C. Morrison, A.B., A.M., Ph.D.

Geography

Associate Professor William T. Clark, B.S., A.M., Ph.D.

*Associate Professor John P. Gartin, B.S., A.M.

*Associate Professor Donald L. Martin, B.S., M.S. (on leave)

*Assistant Professor Robert B. Gould, B.S., A.M., Ph.D.

History

Professor Wilhelm Exelbirt, Ph.D.

Professor John J. Hanrahan, B.S., M.S., Ph.D.

Professor W. Edmund Hicks, A.B., A.M., Ph.D.

Professor Victor B. Howard, A.B., A.M., Ph.D.

Professor Broadus B. Jackson, A.B., A.M., Ph.D.

Professor Perry E. LeRoy, A.B., A.M., Ph.D.

*Assistant Professor John E. Kleber, A.B., A.M., Ph.D.

*Assistant Professor C. Stuart Sprague, A.B., A.M.

Political Science

Professor Jack E. Bizzel, B.S., A.M., Ph.D.

Professor William E. Huang, A.B., A.M., Ph.D.

*Associate Professor Kenneth E. Hoffman, A.B., A.M.

*Assistant Professor Thomas S. Cutshaw, A.B., A.M.

Sociology

Professor Roscoe H. Playforth, A.B., A.M., Ed.D.

Professor Richard M. Reser, A.B., A.M., Ph.D.

Associate Professor John R. Duncan, A.B., A.M., Ed.D.

*Associate Professor Layla Sabie, A.B., A.M., Ed.D.

*Assistant Professor Hubert Crawford, A.B., M.S.W.

*Associate Professor Robert Whitten, A.B., A.M.

MOREHEAD STATE UNIVERSITY

MOREHEAD, KENTUCKY

Morehead State University in Morehead, Kentucky is a regional coeducational university with an enrollment of over 6,500. The university is located in the northeastern section of Kentucky in the scenic Daniel Boone National Forest. The university has a proud heritage dating back to the creation of the Morehead Normal School in 1922.

The City of Morehead can be best described as a college town. Its population is 5,000, with the University serving as its largest industry. Morehead is located midway between Lexington and Ashland on Interstate Highway 64. It is easily reached from northern and southern Kentucky by Kentucky Highway 32.

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 the western part of the state. These schools were to be created for the purpose of training teachers for the elementary schools. Morehead was selected as the site for one of these institutions.

Since its establishment, the title of the school has been changed four times. In 1926 it became Morehead State Normal School and Teachers College; in 1930, Morehead State Teachers College; in 1948, Morehead State College; and in 1966, Morehead State University.

At no time has the University lost sight of its original function — that of training teachers. Programs in this field have been constantly refined and expanded. However, through the years, facilities and offerings in other fields have been developed until the institution is now serving as a general regional university.

Graduate work was first offered at Morehead in 1941 but until 1966 the only degree authorized was the Master of Arts in Education. Since the attainment of university status several additional master's degree programs have been developed and others are being added just as rapidly as faculty and facilities are available.

The Schools

The University is organized academically into five schools. The School of Applied Science and Technology, the School of Education, the School of Humanities, the School of Science and Mathematics, and the School of Social Science.

Accreditation

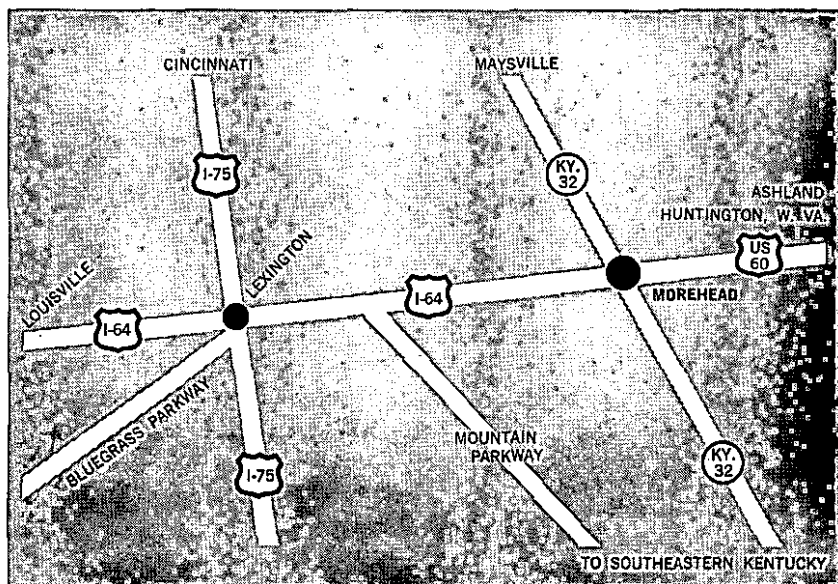
Morehead State University is accredited by the State Board of Education of Kentucky, the Southern Association of Colleges and Schools, and the National Council for Accreditation of Teacher Education. The University is a member of the National Association of School of Music.

The University also holds membership in a large number of professional organizations, including the following: American Council on Education, American Association of Colleges for Teacher Education, American Association of Colleges, Association of State Colleges and Universities, Association of Field Services in Teacher Education, National Association for Business Education, National Association of University Women, and the National League for Nursing.

Location

Morehead State University is located in Morehead, Rowan County, midway between Lexington and Ashland. It is reached by the Chesapeake and Ohio Railroad, United States Highway 60, better known as the Midland Trail, Interstate Highway 64, and State Highway 32. It is the most accessible public institution for higher learning for the people of the Big Sandy and Licking River Valleys and the Ohio Valley section from Ashland to Cincinnati. It is also within easy reach of the people of both the Cumberland and Kentucky River Valleys.

The campus comprises an area of four hundred and fifty-five acres. The lawns are terraced and face on a boulevard which traverses the entire length of the campus. This setting is of unsurpassed natural beauty. The campus, as well as the surrounding country, offers much of interest to students, particularly those studying the natural sciences.



Facilities

Rader Hall

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

Allie Young Hall

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

Fields Hall

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

Thompson Hall

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

President's Home

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

Button Auditorium

Named for Frank C. Button, first president of the University, this large structure features a 1,500 seat auditorium, a dramatic arts workshop and dressing rooms. An extensive renovation program in 1968, involving the original gymnasium facilities of the institution, provides quarters for the University's program in Military Science.

**Johnson Camden Library**

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

University Breckinridge School

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

Senff Natatorium

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

Mays Hall

Containing 99 rooms and a director's apartment this four-story men's residence hall was completed in 1937. It has been named in honor of Jesse T. Mays, a former director of the hall, who served as a member of the faculty from 1933 until his death in 1968.



Lappin Hall

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

Baird Music Hall

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

Waterfield Hall

This 201-room structure contains a director's apartment, a large lobby, and the necessary auxiliary facilities to provide unusually attractive

WEST MIGNON HALL — A five-story residence hall housing 205 women, this unit was completed in 1964.

EAST MIGNON HALL — Six stories, this residence hall was occupied in the spring of 1966 and houses 200 women.

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

Robert Laughlin Health Building And Gymnasim

The first unit of this building was completed in 1957 and consists of a playing floor which has a spectator seating capacity of 5,000 and is used for all basketball games, commencement exercises, concerts, regional meetings, and all-student convocations. The second unit, completed in 1967, provides an additional 97,000 square feet of floor space and modern facilities for the health, physical education, and recreation programs of the University. The facilities include a multi-purpose room large enough to accommodate four regulation-size basketball courts; handball courts; eight bowling lanes equipped with automatic pin setters; a wrestling room; mirrored dance studio; dressing rooms; sauna bath; and athletic department offices. The building was named for Robert Laughlin, Director of Athletics and for many years a football and basketball coach at the University.

Athletic Dormitory

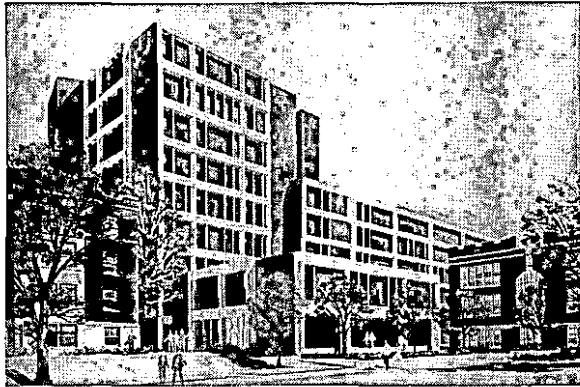
This tri-level, two-story residence hall houses the University's athletes. Its 34 modern, four-man, carpeted suites, house 136 men. Completed and occupied in the fall of 1967, it is located on a hillside overlooking Breathitt Sports Center.

Faculty Housing

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

Claypool-Young Art Building

Completed in the spring of 1968, this modern three-story structure features a three-level gallery and also includes two outside sculpture courts, a rooftop sketching deck, a visual presentation room seating 150, and skylighted studios. The building was named in honor of Mrs. Naomi Claypool, Head of the Department of Art from 1925 to 1965, and Thomas D. Young, who taught in the department from 1936 until 1964.



Education Building

The modernly-equipped structure, first occupied in 1968, houses the School of Education, extensive audio-visual facilities, one of the state's area TV production studios, reading clinic, psychology laboratories, seminar rooms, classrooms, and faculty offices. One section of the building rises nine stories above the campus, while the other wing is six stories high. The offices of the Vice President for Research and Development are located on the eighth and ninth floors.

Trailer Housing

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

Eight additional trailers were added in the fall of 1968 and plans are under way to add 20 more units by the fall of 1969.

Morehead State University Golf Course

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

New Men's Tower

This nineteen-story residence hall for men was completed in the fall of 1969 and houses 512 men in air-conditioned comfort. It is the first of a four-unit men's residence hall complex.

Beula Nunn Hall

This beautiful 10-story women's residence hall is the newest residence hall on campus. The structure houses 400 women in 100 air-conditioned suites, each with a study-living room, bedroom, and bath. The hall is named for Beula Nunn, wife of Governor Louie B. Nunn.

Future Growth

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

Final plans are being completed and construction is expected to be started in the near future on the Appalachian Institute and additional facilities for the School of Applied Sciences and Technology.

The reconstruction and renovation of Rader Hall, housing the School of Social Sciences, is underway. Other projects scheduled soon include the installation of a new steam boiler; construction of 100 apartments for married couples; a 500-bed dormitory for men; a 500-bed dormitory for women; an addition to the Administration Building; a swimming pool and fraternity and sorority housing units.

INFORMATION FOR STUDENTS



What to Bring

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

Physical Examination

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

Reserving Rooms in Dormitories

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

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

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

Dormitory Life

Students living in the dormitories are expected to care for their rooms, and keep them clean, orderly, and presentable at all times. The University endeavors to make it possible for students to live in a wholesome atmosphere under good living conditions. The same conduct is expected from each student as would be expected of him or her in a refined private home.

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

Opening and Closing of Dormitories

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

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

Rules Concerning Students Residing in Private Homes

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

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

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

Registrar.

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

Housing for Married Couples

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

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

Boarding Facilities

Dining facilities are provided in the University cafeterias and grill.

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

Late Entrance

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

Change in Schedule

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

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

The Marking System

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

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

A minimum average of "B" is required for all graduate degrees.

The Numbering of Courses

Courses numbered 300-399 and/or courses numbered 400-499 with the letter "G" added may be taken for graduate credit by students who are qualified to do graduate work in the course involved. When enrolling for any of these courses, the student should check carefully with the Dean of Graduate Programs.

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

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

EXPENSES

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

Revised Schedule
See Spring for present fee schedule

Terms of Payment

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

Satisfactory financial arrangements must be made before registration is complete.

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

Incidental Fee:

An Incidental Fee of \$20.00 (Summer, \$10) is charged each semester. This charge is in lieu of special fees usually charged for: medical service — the services of the school nurse and those of a physician for minor ailments; student activities — admission to athletic contests, use of swimming pool, and other special programs held on the campus; subscription to the student newspaper; Raconteur fee; and special laboratory fees. This fee does not cover the charges made for private instruction in music and certain other special fees paid by some students as indicated in this bulletin.

Laundry Fee:

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

A fee of \$1.00 is charged each semester for rental of a box in the University Post Office.

Graduation Fee:

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

Music Fees:

The fees for private lessons in music are: (a) For two one-half hour lessons a week, \$35.00 per semester and (b) For one one-half hour lesson a week, \$20.00 a semester.

Expenses for One Semester:

	Kentucky Residents	Out-of-State Students
Graduate fees		
Full-time students	\$100.00	\$350.00
Incidental fee	20.00	20.00
Part-time students (less than nine hours) per hour	12.00	40.00
Room rent (refer to Rent Schedule)....	100.00-120.00	100.00-120.00
Laundry service	4.00	4.00
University post office box	1.00	1.00
Special events fee (optional)	5.00	5.00

Expenses for Regular Summer Session:

Registration fee	\$ 50.00	\$175.00
Incidental fee	10.00	10.00
Room rent	55.00	55.00

Expenses for Post-Summer Session:

Cost per credit hour		
Graduate Students	\$ 12.00	\$ 40.00
Dormitory room (per week)	7.00	7.00
University post office box50	.50

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

Studio	\$ 50.00 per month, includes utilities
One-bedroom	55.00 per month, includes utilities
Two-bedroom	60.00 per month, includes utilities
Normal Hall	65.00 per month, includes utilities

Riceville

Two-bedroom	25.00 per month, plus utilities
Student Trailers	65.00 per month, includes utilities
Trailer pad	13.00 per month

*Dormitory Housing***Women's Residence Halls**

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

Men's Residence Halls

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

OTHER EXPENSES

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

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

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

Credit:

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

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

Refunds:

Refunds of fees will be made as follows:

A student withdrawing for justifiable cause during the first week of school will be refunded 75% of his fees, and within the second or third weeks will be refunded 50% of his fees, provided however, that the stu-

dent is not a recipient of a loan, grant, or scholarship, in which case the refund will be made according to the provisions of the particular financial aid program.

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

Definition of Resident Student for Fee Assessment Purposes

The following policy, adopted by the Council on Public Higher Education, Commonwealth of Kentucky, in accordance with Section 164.020 (3) of the Kentucky Revised Statutes, is applied to determine a student's eligibility for fees assessed Kentucky residents who enroll at any of the state-supported institutions of higher learning in the Commonwealth of Kentucky. This determination is made at the time of initial enrollment and shall not be changed thereafter except as provided below.

Every student who is not a resident of Kentucky as defined below is required to pay non-resident registration and/or entrance fees.

A student under eighteen years of age is eligible to enroll as a resident of Kentucky if his parent or legal guardian has established or has maintained residence in the Commonwealth immediately preceding his original enrollment. No student under eighteen years of age shall be considered to have gained residence in the Commonwealth while a student unless or until his parent or guardian moves into the Commonwealth and acquires residence. If a student under eighteen years of age is enrolled as a resident of the Commonwealth and his parent or legal guardian thereafter moves out of the Commonwealth, the student will become a non-resident at the beginning of his next enrollment. If the parents have different residences, the residence of the parent who has legal custody of the student's person or the residence of the parent who provides the main financial support shall be considered the residence of the student.

An adult student from out-of-state who seeks Kentucky residence status must assume the burden of proving conclusively that he is a resident of the Commonwealth with the present intention of making his permanent home in this state. In general, it is assumed that the intent to remain indefinitely in Kentucky is evidenced not only by what a person states but what a person has actually done. The following criteria may be among those used by authorities of the institution in ascertaining the legal residence of a student: obtaining full-time employment, establishing home, buying property, filing state income tax returns, transferring or establishing church membership, affiliating with local organizations, and various other actions which

give evidence of intent to remain indefinitely within the Commonwealth. Compliance with any one or more of these criteria does not in itself constitute Kentucky resident status for the student or his parents.

Any student or prospective student in doubt concerning his residence status must bear the responsibility for securing a ruling by stating his case in writing to the Admissions Officer. The student who, due to subsequent events, becomes eligible for a change in residence classification, whether from out-of-state to in-state, or the reverse, has the responsibility of immediately informing the Office of Admissions of this circumstance in writing.

Extension Courses

The University is in position to offer a limited number of graduate courses in suitable study centers. The minimum individual fee for a graduate course by extension is \$12.00 a semester hour.

Not more than six semester hours of extension and/or transferred credit may be applied on a master's degree. Students should consult with their advisors before enrolling for work of this type.

Credit earned by correspondence is not accepted on the graduate level.

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

GRADUATE STUDY

Graduate Programs Available

Morehead State University offers the following graduate degrees:

Master of Arts with majors in English, History, or Psychology

Master of Science with majors in Biology or Chemistry

Master of Business Education

Master of Music Education

Master of Music

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

Master of Higher Education

In addition, several post baccalaureate programs are available:

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

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

Post-master's programs for the certification of principals, guidance counselors, supervisors, and superintendents

A joint doctoral program with the University of Kentucky

Objectives of Graduate Study

The graduate programs offered at Morehead are designed to meet the needs of three types of students —

1. those who look upon the attainment of the master's degree as their ultimate educational goal;
2. those working toward a non-degree objective beyond the baccalaureate level; and
3. those individuals who plan to pursue doctoral programs.

Specifically, the goals of graduate study are:

- a. Emphasize the abilities to read and think critically — judge values and limitations.

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

Administration

The Dean of Graduate Programs serves as chairman of the Graduate Council and is responsible for executing the policies and regulations governing graduate study as determined by the Graduate Council and approved by the faculty.

Inquiries concerning the Morehead graduate programs should be directed to him. The Graduate office is located in Room 203 of the Administration Building.

The Graduate Council

The Graduate Council consists of two members selected from the graduate committee of each school of the University; the Dean of Undergraduate Programs, and the Dean of Graduate Programs who serves as chairman. Two graduate students are also appointed to serve on the Council.

The Council is responsible for establishing policies and regulations pertaining to graduate study; for the approval of graduate programs, faculty, and courses; and for the overall supervision and co-ordination of the graduate programs of the University.

Graduate Advisors

Shortly after the graduate student is admitted to a degree program, an advisor from the graduate faculty is appointed and it is the function of this advisor to counsel with the student in preparing and completing his program of graduate study. The student should consult with his advisor concerning any problems that may arise in connection with his work.

The advisor also serves as a member of the committee which conducts the final examination for the degree.

Admission to Graduate Study

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

The general requirements for *unconditional* admission is an overall quality-point average of 2.5 (4.0 scale).

Seniors at Morehead who meet the academic requirements and who lack no more than six semester hours for completion of the requirements for the baccalaureate degree may apply for permission to enroll in graduate courses concurrently with the remaining undergraduate work. Application is made to the Dean of Graduate Programs on a form supplied by the graduate office. A senior taking graduate courses may not enroll for more than 14 hours of course work. If admitted, such a student registers as a senior.

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

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

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

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

For Admission to Candidacy:

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

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

From ~~10~~⁸-15 semester hours of credit must have been completed with a minimum quality-point average of 3.0 (on a 4.0 scale). Students in education must have completed two of the basic courses, including Education 500, ~~and one course outside of education before applying for candidacy.~~

(For the second education course candidates for the M.A. in Education must select from Education 510, 530, 580; candidates for the M.H.Ed. must select an approved higher education course.)

A minimum of 15 semester hours of credit must be earned after the requirements for admission to candidacy have been met and the application for candidacy has been filed in the office of the Dean of Graduate Programs.

For specific candidacy requirements in the M.A. in Education, students should consult the Residence Requirements section on admission to candidacy for the M.A. in Education.

A minimum of 30 semester hours without a thesis or 24 semester hours with an acceptable thesis is required for the completion of a master's degree program.

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

Credit for full-time residence as a graduate student will not be granted for a semester or term during which the student is removing undergraduate deficiencies.

Of the 24 hours of residence credit required for the master's degree, a minimum of eight hours must be completed in one regular summer term, or a minimum of twelve hours in one regular semester. In the case of graduate assistants, this requirement for a regular semester is eight hours.

Student Load

The *minimum full-time* graduate load for a semester is nine semester hours; for a summer term, it is five semester hours. The *maximum* load is 15 hours for a semester and eight hours for a summer term.

A Graduate Assistant may not exceed ten semester hours credit during a regular semester or five semester hours during a summer term.

During any regular semester, a graduate course load of up to four semester hours shall be considered as standard for a full-time teacher or other school official. With the approval of the appropriate University Official, well justified variations or exceptions to this guideline may be made for an individual student provided that no more than eight semester hours are completed within a two-semester period of an academic year.

Course Requirements

Fifty per cent of the *total* course work (minimum of 15 semester hours) must be earned in courses open only to graduate students—courses numbered 500 and above.

Fifty percent of the total course work (minimum of fifteen hours) must be earned in one field of study.

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

Transfer Credit

A maximum of six semester hours of graduate credit earned at another institution may be accepted toward the master's degree provided —

1. the credit has been earned at an accredited graduate institution within five years of the date on which the master's degree requirements are completed;
2. the work is acceptable as credit toward a comparable degree at the institution from which transfer is sought;
3. the courses to be transferred are approved by the Dean of Graduate Programs and the head of the department in which the same or similar courses are offered at Morehead; and
4. the student has maintained a "B" average on *all* graduate work shown on the transcript.

In any event, only those courses with a mark of "B" or better will be accepted.

After admission to a graduate program at Morehead, students who wish to take courses elsewhere for transfer to Morehead should consult with the Dean of Graduate Programs before the courses are taken. A bulletin containing descriptions of the courses and information with regard to the level at which they are offered should be presented with the request for transfer.

Thesis

For most master's degree programs at Morehead, a thesis is required and credit, not to exceed six semester hours, is allowed. The student who expects to do advanced graduate work will find the preparation of a thesis invaluable and other capable students may find the experience to be of great worth.

Before beginning the thesis, the student should obtain a copy of the *Regulations for the Master's Thesis* from the graduate office. In these regulations are included certain procedures and requirements such as—type of paper required, due dates, formats, and announcements of the final examination.

Language Requirements

The Master of Arts and the Master of Science degree programs ordinarily require a reading knowledge of a modern foreign language. Students should consult the specific requirements for the degree involved for a complete explanation of this requirement.

Arrangements for the language proficiency examination should be made with the student's advisor and/or the Dean of Graduate Programs.

Graduation

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

The student must file an application for the master's degree with the registrar before his name will be placed on the list of graduates. This application should be made early in the term preceding the one in which he expects to receive the degree.

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

Graduate Assistantships

A number of graduate assistantships are available each year for qualified graduate students who have been admitted to a degree program. A graduate assistant registers for up to ten hours of work each semester and devotes twenty hours a week to the duties of his assistantship. A stipend of \$2,200 is paid for the academic year and the recipient pays the regular Kentucky resident and incidental fees.

Residence Hall Counselors

Graduate students interested in a position as residence hall counselor should contact the Vice President for Student Affairs.

Financial Aid

Graduate students interested in obtaining financial aid, other than graduate assistantships or residence hall counselors, should write the Student Finance Officer.



SCHOOL OF APPLIED SCIENCES & TECHNOLOGY

C. NELSON GROTE
Dean

AGRICULTURE
BUSINESS
HOME ECONOMICS
INDUSTRIAL EDUCATION

Agriculture

DESCRIPTION OF COURSES

Agriculture 301G. Farm Management. Three hours.

Prerequisite: Agriculture 203.

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

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

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

Agriculture 343G. Beef Production. Three hours.

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

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

Agriculture 344G. Swine Production. Three hours.

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

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

Agriculture 345G. Sheep Production. Three hours.

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

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

Agriculture 415G. Animal Nutrition. Four hours.

Prerequisite: Agriculture 316.

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

Agriculture 570. Research Problems. One to three hours.

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

Division of Business

MASTER IN BUSINESS EDUCATION

- I. *General Requirements for Unconditional Admission to Graduate Programs*
 1. Bachelor's degree from an accredited college.
 2. An overall minimum standing of 2.5 on a 4.0 scale, at the undergraduate level.
 3. Students who meet all entrance requirements, but who do not wish to pursue a degree program, may take courses for which they are eligible as "Unclassified" graduate students.
- II. *Special Requirements for Admission to Graduate Study in Business Education*
 1. Completion of a major or minor in Business Education or Business Administration or upon consent of graduate faculty in the Division of Business.
 2. A minimum average of 3.0 in courses above the freshman level in the undergraduate major field.
 3. Students who meet all entrance requirements except the 3.0 average in the major field may be admitted conditionally to graduate study in Business Education with the approval of the graduate faculty in the Division of Business and the Dean of Graduate Programs.
- III. *Requirements for Admission to Candidacy for the Master in Business Education*
 1. Satisfactory scores on the Graduate Record Examination—Aptitude and Advanced Education or Business tests.
 2. All prerequisite courses completed.
 3. Minimum average of 3.0 on all graduate work completed at the time of application.
 4. A minimum of 15 hours to be earned after the requirements for candidacy have been met.

IV. *Requirements for the Degree*

- | | Sem. Hrs. |
|--|-----------|
| 1. (a) Required Courses in Business | |
| Business 500 — Foundations of Business Education | 3 |
| Business 501 — Problems in Business Education.... | 3 |
| Total Hours Required in Business..... | 6 |
| (b) Required Courses in Education | |
| Education 500 — Research Methods in Education.. | 2 |
| Total Hours Required in Education..... | 2 |
| Total Hours Required in Program..... | 8 |
| 2. Elect one of the following: | |
| (a) Thesis (Business 599) | 6 |
| (b) Business 570 — Research Problems in Business.... | 1-3 |
| One additional course from the Division of Business..... | 3 |
| Total Thesis Credit (a) or Research Problems and Additional Course Credit (b)..... | 6 |
| 3. Select 16 Semester Hours as follows: | |
| 8 hours in the Division of Business | |
| 8 hours in additional graduate courses of which 4 must be at the 500 level or above. (These may be in Education, Business or a related area. Students expecting to qualify for a Standard Certificate in the state of Kentucky should take the 8 hours in Education. These are Educ. 510, Educ. 530, and Educ. 580.) | |
| Total Hours Selected..... | 16 |
| TOTAL HOURS IN PROGRAM..... | 30 |
| 4. Successful completion of a final oral examination including defense of the thesis where applicable. Written examinations may be required at the discretion of the student's committee and the Dean of the Graduate Programs. | |
| 5. Students must meet all general requirements for a Master's Degree as outlined in the graduate bulletin. | |

DESCRIPTION OF COURSES

Business 402G. Managerial Accounting. Three hours.

Prerequisite: Business 282.

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

Business 404G. Production Management. Three hours.

Prerequisites: Economics 201, Business 480, Business 465.

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

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

Business 410G. Personnel Management. Three hours.

Prerequisite: Business 384.

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

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

Prerequisite: Economics 201.

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

Business 416G. Educational Data Processing. Three hours.

(Formerly Business 510)

Prerequisite: Business 465 or permission of instructor.

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

Business 416G. Educational Data Processing. Three hours.

This course is available for upper-division and graduate students to acquaint them with the basic concepts of computer technology and its application in the fields of vocational education tutorial methods, educational research and administration. Two lectures and one two-hour laboratory period each week.

Business 451G. Retail Merchandising. Three hours.

Prerequisite: Business 450.

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

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

Prerequisite: Economics 304.

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

Business 461G. Business Law I. Three hours.

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

Business 462G. Business Law II. Three hours.

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

Business 465G. Principles of Management. Three hours.

Prerequisites: Business 282 and Economics 201.

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

Business 482G. Specialized Accounting. Three hours.

Prerequisite: Business 384.

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

Business 483G. Auditing. Three hours.

Prerequisite: Business 384.

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

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

Prerequisite: Senior or graduate standing.

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

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

Prerequisite: Senior or graduate standing.

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

Business 491G. Machine Shorthand Workshop. Two hours.

Prerequisite: Competency in teaching a symbol shorthand system.

An accelerated course designed to provide teachers of other shorthand systems with the basic skills and techniques necessary for teaching machine shorthand. The course includes instruction in machine shorthand theory and keyboard mastery, as well as methodology helpful in teaching machine shorthand.

Business 500. Foundations of Business Education. Three hours.

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

Business 501. Problems in Business Education. Three hours.

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

Business 503. Business Curriculum. Three hours.

An analysis of the principles, concepts, methods, and procedures of constructing, evaluating, changing, and updating the business curriculum in secondary schools, colleges, and other special institutions to meet the needs of business students.

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

Prerequisite: Graduate standing and a teaching knowledge of typewriting.

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

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

Prerequisite: Graduate standing and a teaching knowledge of shorthand.

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

Business 523. Improvement of Instruction in Bookkeeping and Accounting. Two hours.

A study of improved methods, techniques, and teaching materials for the secondary school and college bookkeeping and accounting courses. A review of recent research pertaining to the teaching of bookkeeping and accounting.

Business 576. Independent Research. One-three hours.

Prerequisite: Permission of the instructor.

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

Business 599. Thesis. One — Six hours.

Home Economics

DESCRIPTION OF COURSES

Home Economics 340G. Textile Testing. Three hours.

Prerequisites: Home Economics 240 and chemistry 101 and 102.

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

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

Prerequisites: Home Economics 241 and Art 291.

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

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

Prerequisites: Home Economics 241.

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

Home Economics 343G. Household Textiles. Three hours.

Prerequisite: Home Economics 240.

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

Home Economics 432G. Problems in Management and Quantity Cookery. Three hours.

Prerequisites: 231.

Application of principles and techniques as used in quantity food preparation.

Home Economics 436G. Advanced Nutrition. Three hours.

Prerequisite: Home Economics 431 or equivalent.

Selected topics in nutrition with emphasis on the classical and current literature approached from the viewpoint of science in research and practical application.

Home Economics 438G. Experimental Foods. Three hours.

Prerequisites: Home Economics 231; Chemistry 101 and 102.

Review and evaluation of published research; presentation of planned class experiments; application of experimental methods applied to food research through individual investigation.

Home Economics 439G. Child Growth and Nutrition. Three hours.

Prerequisite: Home Economics 431 or the equivalent.

Emphasis on the selection, application, and evaluation of nutritional data concerned with infancy and child growth. Interpretation of data concerning nutritional benefits and hazards.

Home Economics 440G. Advanced Textile Testing. Three hours.

Prerequisite: Home Economics 340.

Trends and developments in the textile field with application to wear and use studies; use of standard tests used in industry for fiber analysis and fabric testing; critical analysis of the tests. One lecture-discussion hour and two two-hour laboratory periods per week.

Home Economics 441G. Tailoring. Two hours.

Prerequisite: Home Economics 241 or consent of instructor.

Selection, fitting, and construction of a tailored garment based upon individual problems. Required construction of a wool suit or coat. Two two-hour laboratory-demonstration periods per week.

Home Economics 442G. Social-Psychological Aspects of Clothing and Textiles. Three hours.

Prerequisite: Six hours in Clothing and Textiles.

Readings in social, psychological, and economic factors in the selection and use of clothing as determined by recent research.

Home Economics 444G. Dyes and Finishes. Three hours.

Prerequisite: Home Economics 240.

Factors of wear, care and storage as related to the special finishes applied to fabrics; types and uses of dyes for natural and man-made fibers and fabrics. One two-hour laboratory and two lecture-discussion periods per week.

Home Economics 455G. The Child and the Family. Three hours.

Environmental factors favoring family life; the home as a center of family interaction; stages of family life and the changing role of members.

Home Economics 457G. Interior Design. Three hours.

Prerequisite: Home Economics 451 or equivalent.

Principles and elements of design related to selection and arrangement of furniture; use of fabrics, accessories, and other media used in furnishing a home. A study of periods in furnishings.

Home Economics 542. Textiles and Clothing Workshop. Three hours.

Prerequisite: Undergraduate degree in home economics.

Study of and experimentation with new fibers, yards, finishes; legislation and labeling; evaluation of current trends in teaching textiles and clothing in a variety of situations; study and analysis of reports on current research in textiles.

Home Economics 570. Research Problems. One to three hours.

Prerequisites: Undergraduate area of concentration or major in home economics.

Directed individual study in a phase of home economics of special interest to the home economics student will be provided for professional problems. Written proposals will be submitted to the faculty member or faculty committee designated. The research will normally be limited to library research rather than experimentation design. Conferences by arrangement.

Home Economics 572. Home Economics Education Workshop. Three hours.

Prerequisite: Undergraduate degree in home economics.

A study of the opportunities provided by legislation for secondary schools; recent development of occupational phases of vocational programs in Kentucky; study of available teaching guides; recent developments in the subject matter phase of home economics chosen for emphasis; study and analysis of methods in the high school program.

Home Economics 573. Curriculum Development in Home Economics. Three hours.

The place of home economics in the school and community. New developments in secondary school programs. Consideration of the homemaking curriculum, a critical survey of resources. Development of plans and units.

Home Economics 574. Supervision of Home Economics. Three hours.

The nature, function, and techniques of supervision of home economics in high school and adult programs. Emphasis will be given to supervision of student teachers.

Home Economics 576. Independent Study. One-Three hours.

Prerequisite: Undergraduate degree in home economics.

Original research of a technical or professional nature is planned by the student. The proposal must be approved by the faculty advisor or faculty committee. Original research projects must be supported by adequate library reference work.

Industrial Education

DESCRIPTION OF COURSES

Industrial Education 300G. General Shop Organization. Three hours.

Prerequisite: Second semester junior or first semester senior standing.

Students will be introduced to concepts of organization and administration of the general shop. Individual and group problems will involve identification and understanding of major concepts in industry which may be taught by integrating tools, materials, and processes. Students will be expected to do a minor research problem. Two lecture-discussion periods and two laboratory periods each week.

Industrial Education 301G. Tool Layout and Design. Three hours.

Prerequisite: Industrial Education 203.

The layout and design of machine tool jigs and fixtures; simple blanking, forming, and piercing dies; and plastics processing dies. This course involves a study of the above processes through lecture-discussion and laboratory work.

Industrial Education 302G. Offset Lithography. Three hours.

Prerequisite: Industrial Education 202.

The study of the history and fundamentals of photo offset-lithography with units in analysis of copy preparation; layout and design; camera work with care and use of the darkroom; stripping, masking, and opaquing procedures; plate making; and actual press operation. Two lecture-discussion and two laboratory periods each week.

Industrial Education 303G. Technical Illustration. Three hours.

Prerequisite: Industrial Education 203.

Students are introduced to principles, practices and techniques used in industry to describe complex mechanisms. Pictorial representation, shading, photo retouching, air-brush techniques, special instruments, and reproduction of illustrations are the major units of study. Two lecture-discussion periods and two laboratory periods each week.

Industrial Education 306G. Plastics Mold Design and Construction. Three hours.

Prerequisites: Industrial Education 106, 107, 388, and 211 or consent of the instructor.

Students are introduced to the design of products in relationship to the physical characteristics of plastics, molding techniques, and mold construction methods. Additional units of study will involve electrical discharge machining, electroforming, pantograph or copy milling, plaster tooling, hobbing, and wood tooling. Students will be expected to complete a minor research project.

Industrial Education 320G. Industrial Arts for the Elementary Teacher. Three hours.

Prerequisite: Formal admission to the Teacher Education Program.

This course is designed as a means to develop professional and technical competencies of pre-service and in-service elementary school teachers so they may enrich and strengthen programs of instruction by using industrial arts as both method and content. Two periods of lecture-discussion and two periods of laboratory experience each week.

Industrial Education 330G. Industrial Design. Two hours.

Prerequisite: Upper division student of Industrial Education.

A study of the basic concepts and principles of designing a product in an industrial-commercial situation. Elements of industry such as capital, management, labor, research and development, production planning, manufacturing, and marketing will be studied. Laboratory experiences will involve individual and group design problems to be subjected to a complete design analysis and then set up for mass production.

Industrial Education 351G. Graphic Duplication. Two hours.

Prerequisite: For Business Division Majors—consent of the instructor; for Industrial Education—Industrial Education 202 and ability to type.

A survey of the various methods and devices that are currently being used to prepare camera-ready copy for the office duplicator and many phases of the commercial printing industry. Emphasis will be placed on the skills and knowledges required for the typical office duplicating situation as well as on the techniques currently being used to prepare multi-color printing.

Industrial Education 403G. Machine Drawing and Design. Three hours.

Prerequisite: Industrial Education 301G.

Mathematical and graphic solutions of problems involving the principles of machine elements. The course will include a study of motions of linkages, velocities and accelerations of points within a link mechanism; layout methods for designing cams, belts, pulleys, gears, and gear trains. Special attention will be given to dimensioning, tolerance, and surface finish characteristics. Laboratory experience will include individual and group projects.

Industrial Education 404G. Architectural Drawing. Three hours.

(Formerly Industrial Arts 304)

Prerequisite: Industrial Education 305.

A technical course covering the fundamental principles, techniques and practices of residential and selected commercial architecture. Individual and group design problems will involve the preparation of specifications, cost estimations, graphic and/or empirical evaluation of structural elements and design feasibility, landscape, and a complete set of working plans which will include necessary details and presentations of both the interior and exterior. Two lecture-discussion periods and two laboratory periods each week.

Industrial Education 441G. Electricity-Electronics Workshop for Teachers. Three hours.

Prerequisite: Must have at least one year teaching experience, must have taken Industrial Education 241 or have the permission of the instructor.

This is a course designed for Industrial Arts teachers at all levels who are interested in improving their background in electricity-electronics. Special emphasis will be placed on the development of appropriate laboratory experiments, demonstrations, demonstration equipment projects, curriculum and methods of teaching electrical concepts. Teaching aids of all kinds will be discussed.

Students will be required to develop and/or construct one of the above items to help them with their teaching, and a paper will be required.

Industrial Education 450G. Machine Composition II. Three hours.

Prerequisite: Machine Composition I.

A continuation of Machine Composition I (I. E. 350) involving more of the intricate facets of typesetting as performed by experienced machine operators in commercial print shops or newspapers. Confronting the student with typesetting problems such as tabular measure, advertisements, and inset work will be emphasized to simulate an actual industrial experience in the classroom. One lecture-discussion and four laboratory periods arranged each week.

Industrial Education 460G. Foundations of Industrial Education. Three hours.

Prerequisite: Upper division standing in Industrial Education.

Study of the philosophical positions underlying the historical development of industrial arts; related social, political, and economic factors contributing to and associated with these movements; leaders of the industrial arts movements and their influence and contributions; contemporary educational theories affecting the current programs of industrial education. Three lecture-discussion periods each week.

Industrial Education 488G. Machine Shop II. Three hours.

Prerequisite: Industrial Education 388.

The course will consist of advanced machining of steel and cast iron, advanced metallurgy, precision measurement, and carbide cutting tools. Requirements will include the completion of a product designed, drawn, and machined by the

student(s) with emphasis upon proper selection of machines, industrial practices and techniques. One lecture-discussion and four laboratory periods per week.

Industrial Education 540. Administration and Supervision of Industrial Education. Three hours.

Prerequisite: Area of concentration or major in Industrial Education.

Problems to be considered will include: program planning and development; state and federal legislation; planning industrial education shops and laboratories; selecting and purchasing equipment and supplies; organizing and administering the instructional program; and school and community relations. Three lecture-discussion periods each week.

Industrial Education 560. Trends and Issues in Industrial Education. Two hours.

Students will be involved in the identification of problems and issues in industrial arts. An attempt will be made to discuss alternative solutions and identify discernible trends within the profession. Theoretical as well as practical problems will be considered. A foundation for continued professional growth will be established through independent thinking and expression.

Industrial Education 570. Research Problems. One to three hours.

Prerequisite: Undergraduate area of concentration or major in Industrial Arts.

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

Industrial Education 571. Seminar. 0-1 hour.

(All graduate students in residence must enroll for this class.)

A study of current technological developments within industry and their concomitant impact upon society. Special emphasis will be placed upon the implications for industrial arts. Following a brief presentation by a student, faculty member, or guest speaker, the group will discuss the topic informally.

Industrial Education 575. Analysis of Research. Two hours.

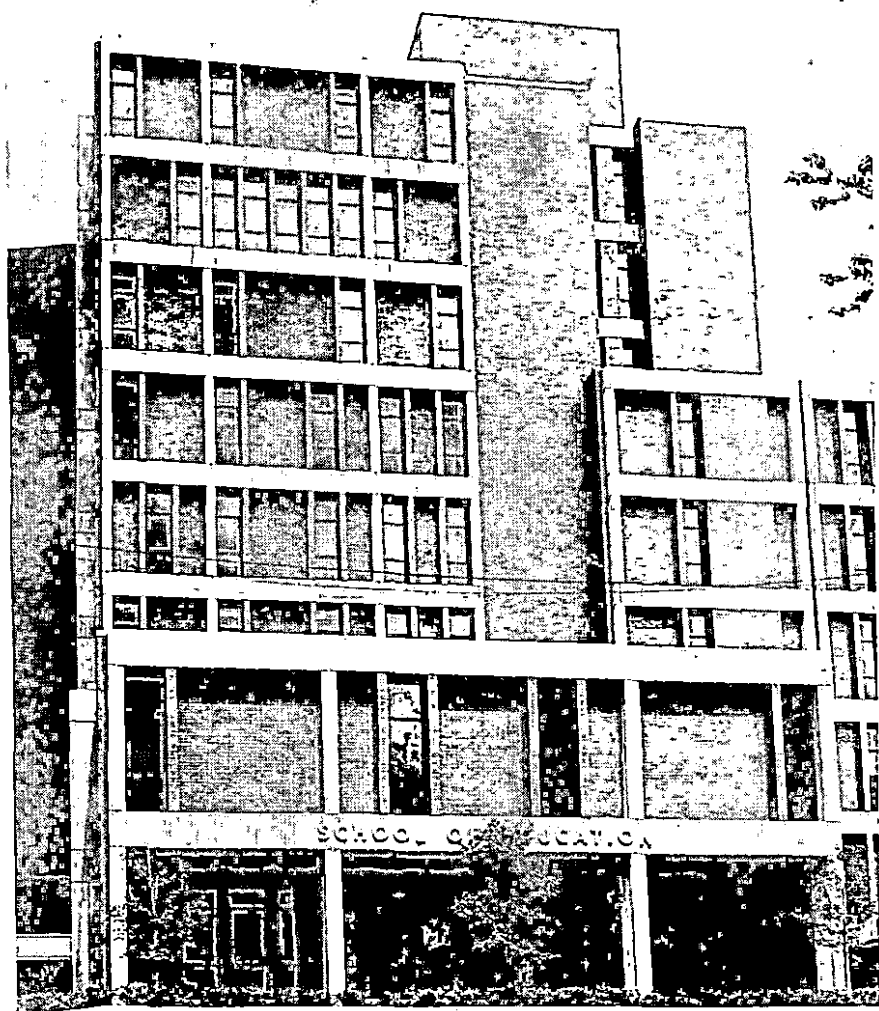
Prerequisite: Advanced graduate standing or consent of instructor.

Current research related to the field of industrial education will serve as the basis for developing an understanding of research design, sampling procedures, hypotheses testing and statistical analyses by using parametric and nonparametric procedures. Consumer and action research will be emphasized. Two lecture-discussion periods each week.

Industrial Education 576. Independent Study. One-three hours.

Prerequisite: Twelve hours of Industrial Education at the undergraduate level.

Provides the creative and resourceful graduate student with the opportunity to pursue a technical problem with a laboratory orientation. A formal proposal must be submitted and approved prior to or immediately following registration. One or more advisors will be assigned in relation to the nature of the problem. Conferences are scheduled as needed.



SCHOOL OF EDUCATION

JAMES H. POWELL
Dean

PROFESSIONAL EDUCATION
SPECIAL EDUCATION AND
PSYCHOLOGY
HEALTH, PHYSICAL EDUCATION
AND RECREATION
LIBRARY SCIENCE

Requirements:*For the Master of Arts in Education:*

The Master of Arts in Education is a professional degree. If a student holds, or is eligible to hold, a provisional elementary or secondary teachers' certificate he may, through the different curricula leading to this degree qualify for the corresponding standard teachers' certificate or the provisional certificate for guidance counseling, school librarian, or special education in Kentucky.

Students completing a program for the Master of Arts in Education and meeting Kentucky's certificate requirements are fully accepted for a similar certificate in most other states. However, a student who expects to meet certification requirements in another state should contact the certification authority in that state to determine if there are specific requirements in that state which should be included in his program of study at Morehead.

Requirements for Unconditional Admission to Graduate Study in Education:

1. General admission to graduate study.
2. A minimum of nine semester hours of undergraduate credit in professional education.

Requirements for the Degree:

<i>For Elementary Teachers</i>	Sem. Hrs.
Education 500, 510, 530, and 580.....	10
Education 526 and 599	
or	
*Education 526 and approved electives in education....	8
Specialized area outside of professional education.....	12
	<hr/>
	30

*The "approved electives in education" may be taken in another field with the approval of the Director of Graduate Study in the School of Education.

<i>For Secondary Teachers</i>	Sem. Hrs.
Education 500, 510, 530, and 580.....	10
*Education 599 and an approved elective in education	
or	
*Approved electives in education.....	8
Specialized area outside of professional education.....	12
	<hr/>
	30

*The "approved electives in education" may be taken in another field with the approval of the Director of Graduate Study in the School of Education.

For Librarians

Education 500, 510, 530, and 580.....	10
*Library Science 311G, 321G, 411G, 475G, and 527.....	16
Electives (Must include two hours at 500 level).....	4
	<hr/>
	30

*If credit in Library Science 227 and 301 has not been earned at the undergraduate level they must be taken by the graduate student. These courses do not carry graduate credit.

For Guidance Counselors

Education 500, 510, 530, 580.....	10
Education 556, 564, 566, and 569.....	8
Psychology 381G and approved elective psychology.....	6
Electives in fields other than psychology or education....	6
	<hr/>
	30

*Students desiring to become guidance counselors must secure special permission to enter this program at the time they apply for admission to candidacy for the master's degree.

For Special Education

To be eligible to apply for this program, a student must have earned credit in each of the following areas—

Either Exceptional Children or Psychology of Exceptional Children

Either Educational Psychology or Psychology of Learning

Either Quantitative Methods or Measurement Principles and Techniques

Courses marked with an asterisk are required for the program and Kentucky certification.

Credit in one or more sections of Education 555 may be earned.

A minimum of 32 semester hours is required for this program.

	Sem. Hrs.
Education 500, 510, 530, and 580.....	10
To be selected from Education 350G*, 437G, 453G, 465G, 555*, 568, and 575*.....	10
To be selected from Psychology 490G, 509, 512, 533, and 534.....	6
To be selected outside of education and psychology.....	6
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	32

Admission to Candidacy for all Programs Leading to the M.A. in Education

In order to be admitted to candidacy for the M.A. in Education Degree the candidate must meet the following requirements:

(1) The student must receive the written recommendation of his advisor and concurrence of the department head that he is a suitable candidate for admission to candidacy in his program.

(2) The student must have earned a grade point average of 3.3 on 10 to 15 hours of graduate work or he must have met two of the following requirements in connection with his performance on the Graduate Record Examination:

- a. A verbal score of 400 or more;
- b. A quantitative score of 400 or more;
- c. A combined aptitude score of 750 or more;
- d. A combined area score of 1150 or more;
- e. A score of 400 or better on the advanced test in Education.

Applicants who are denied admission to candidacy may file a written appeal containing the reasons for exception to the standards with the Graduate Committee.

Fifth Year Non-Degree Program

Morehead offers a fifth-year non-degree program of 32 semester hours which qualifies Kentucky teachers for Rank II on the state's salary schedule and which may also be used to renew the provisional teaching certificate. Any student who holds a baccalaureate degree from an accredited institution and who holds a Kentucky provisional teaching certificate may apply for admission to this program.

According to the regulations of the Kentucky State Board of Education this fifth year program is planned individually with each applicant by the training institution.

The specific requirements for this program are:

1. A minimum of 18 semester hours (of the required 32) must be earned in residence at Morehead.
2. At least 12 of the 32 hours must be earned in courses carrying graduate credit.
3. At least 12 hours of the work must be in professional education.
4. At least 12 hours of the credit earned must be in courses outside the field of professional education.

For the Master of Higher Education:

The Master of Higher Education program is designed to provide advanced study and experience in preparation for the following:

1. Teachers in two-year institutions who may be charged with administrative responsibilities.
2. Further study in the field of higher education.
3. Students pursuing advanced degrees in any discipline to study the higher education system of which they are a product and in which they plan to work.
4. Advanced study in the discipline in which the student plans to teach in post-secondary institutions.

Requirements for Admission to Graduate Study in Higher Education:

1. General admission to graduate study.
2. An undergraduate major or minor in the discipline outside of professional education which the applicant considers to be his teaching area.
3. A minimum average of 3.0 in courses completed after the freshman year in the discipline outside of professional education.

Requirements for the Degree:

Sem. Hrs.

I.

9-12

Higher Education — selected from the following:

Education 500 Research Methods in Education

535 Curriculum Construction in the
Two-Year College

540 The Two-Year College in Higher
Education

541 Academic Problems in Higher
Education

542 Student Personnel Work in Higher
Education

543 Seminar in Higher Education

544 Independent Study

For completion of a Rank I program for Secondary Principals, a minimum of 15 semester hours of planned and approved course work in addition to the 15-hour curriculum required for issuance of the Secondary School Principal's Certificate must be completed. A minimum of 15 hours of post-master's work must be in courses open only to graduate students. A minimum of 18 hours of work included in both the master's and post-master's work (minimum of 60 hours) must be in disciplines other than education.

Supervisor of Instruction

Each of the following courses must be included in either the master's or post-master's work. A minimum of fifteen credit hours must be completed *after* the master's degree. (Additional courses may be necessary in instances where the prerequisite to these courses have not been completed.)

Ed. 532	Elementary Curriculum	2 Hrs.
Ed. 534	Secondary Curriculum	2 Hrs.
Ed. 560*	Supervision	3 Hrs.
Ed. 572*	Seminar Problems of the Principal	1 Hr.
Ed. 591	The School and the Public	2 Hrs.
Ed. 381G	Measurement Principles and Techniques	3 Hrs.
Ed.	An approved course in the advanced study of reading	2-3 Hrs.
One course from the following:		
Ed. 350G, 437G, 452G, or 555	2-3 Hrs.

For completion of a Rank I Program for School Supervisors a minimum of 15 semester hours of planned and approved course work in addition to the 15-hour curriculum required for the issuance of the School Supervisor's Certificate must be completed. A minimum of 15 hours of post-master's work must be in courses open only to graduate students. A minimum of 18 hours of work included in both the master's and post-master's work (minimum of 60 hours) must be in disciplines other than education.

Guidance Counselor

For completion of a Rank I Program for Guidance Counselors, a minimum of 30 semester hours of planned and approved work in addition to the master's degree curriculum for guidance counselors must be completed. Completion of this program qualifies one for the Standard Guidance Counselor Certificate in Kentucky.

School Superintendent

The number of credit hours indicated from each of the following categories (I-VI) must be included in either the master's or post-master's work. A minimum of thirty credit hours must be completed *after* the master's degree. (Additional courses may be necessary in instances where the prerequisites to those courses have not been completed.)

I.

Studies Dealing with Administration and Supervision	10-12 Hrs.
Principles of Educational Administration	3 Hrs.
Supervision	3 Hrs.
The Elementary Principal	2 Hrs.
The Secondary Principal	2 Hrs.
School Law	2 Hrs.
School Finance	2 Hrs.
The School Plant	2 Hrs.
Administration of School Personnel	2 Hrs.
The School and the Public	2 Hrs.

II.

Studies Dealing with Research — 6-10 Hrs.	
Research Methods in Education	2 Hrs.
Seminar — Problems of the Teacher	1 Hr.
Seminar — Problems of the Principal	1 Hr.
Seminar — Problems of the Supervisor	1 Hr.
Research Problems in Elementary Education	2 Hrs.
Research Problems in Secondary Education	2 Hrs.
Research Problems of the School Leader	2 Hrs.
Statistics	2-3 Hrs.
Thesis	2 to 6 Hrs.

III.

Studies Dealing with the Nature and Psychology of the Learner — 5-7 Hrs.

History and Philosophy of Education	3 Hrs.
Advanced Human Growth and Development	3 Hrs.
Psychology of Learning	2 Hrs.
Educational Psychology	2 Hrs.
Learning Theories	2 Hrs.

IV.

Studies Dealing with Programs and Problems of the School	7-12 Hrs.
Curriculum Development	4-6 Hrs.
Advanced Studies in Teaching of Reading	2-4 Hrs.
Educational and Psychological Testing	2-5 Hrs.
Audio Visual Aids in Instruction	3 Hrs.
Diagnostic and Remedial Techniques	3 Hrs.
Principles of Guidance	2 Hrs.

V.

Specialized Academic Areas (approved courses from behavioral sciences and other areas)	18 Hrs.
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VI.

Electives in Professional Education or Academic Areas	12 Hrs.
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Elementary Teachers and Secondary Teachers

For completion of the Rank I program for elementary teachers, or the Rank I program for secondary teachers, a minimum of 30 semester hours of planned and approved work in addition to the master's degree curriculum for elementary teachers, or that for secondary teachers is required. Students completing the Rank I program for elementary teachers or that for secondary teachers must have qualified for the Standard Elementary Certificate or the Standard Secondary Certificate in the master's degree curriculum.

Joint Doctoral Program with the University of Kentucky

Morehead State University and the University of Kentucky School of Education have an agreement whereby students desiring to pursue a doctor's degree (Ph.D. or Ed.D.) at the University of Kentucky may, upon being admitted jointly by these institutions, complete up to one year of their course work at Morehead State University.

An applicant must file his application in the Graduate Office at Morehead and a joint screening committee composed of members from both institutions will decide upon the applicant's eligibility. In order to be admitted to the program, one must meet the requirements for admission to the doctoral program of the School of Education at the University of Kentucky. In support of one's application, he must submit the results of the Graduate Record Examination including the Aptitude, Area, and Advanced Test in Education; the National Teachers Examination; and the Miller Analogies Test.

After a person has been accepted, he will be assigned to a doctoral committee composed of faculty members from both institutions. The student will be permitted to do approximately the year of his work on campus at Morehead. In any case, the last year of the program must be completed at the University of Kentucky.

Professional Education

DESCRIPTION OF COURSES

Education 327G. The Pre-School Child. Three hours.

Emphasizes the principles of growth and development from the prenatal period to age six and how to provide learning experiences that can enrich their lives. Focuses attention on nursery and kindergarten age children.

Education 328G. Activities and Material in Early Childhood Education. Three hours.

Investigates the needs and interests of early childhood—pre-school, kindergarten and primary—as a basis for a critical evaluation of present practices in this field. Also provides opportunities to explore objectives, materials, and techniques of instruction for this age group.

Education 350G. Nature and Needs of Retarded Children. Three hours.

The physical, psychological, and educational needs of the educable and trainable mentally retarded child; research pertaining to the nature and needs of the mentally retarded; and ways of developing maximum abilities.

Education 355G. Teaching the Mentally Retarded. Three hours.

A consideration of curriculum sequence as specialized methods of instruction applicable to handicapped learners. The construction, use, and adaptation of materials by teachers who are working with retarded children.

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

Investigations of major kinds or areas of test, test manuals, publisher's catalogs, and research literature; elementary statistics; test construction, administration, scoring, and interpretation of results. Special emphasis on intelligence tests.

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

History and basic philosophy of the use of multisensory materials of instruction; role of the teacher in perceptual learning, projected and non-projected audio-visual materials; sources of materials.

Education 421G. Modern Mathematics Workshop. Two hours.

Designed to acquaint in-service teachers with the content of modern mathematics. This course does not substitute for Mathematics 231 or 232.

Education 437G. Diagnostic and Remedial Techniques. Three hours.

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

Education 447G. Utilization of Educational Television. Three hours.

Prerequisite: Upper division classification.

An investigation of the use of television in the classroom. The course includes what television can and cannot do in the teaching-learning situation. A bit of the history and background of ETV; how a telecourse is developed; personnel needed; examples of telelessons and their use by outstanding teachers; the importance of the course guide; effective motivational and follow-up techniques with the help of other media; with particular emphasis on the role of the classroom teacher. Lecture, demonstration, and student involvement are some of the techniques employed.

Education 452G. Special Problems in Learning Disorders. Two hours.

An examination of psychological, medical, and educational literature involved with survey, clinical, and experimental work concerning a specific learning disorder. Diagnosis, therapy and prognosis relative to a specific learning impairment or a cluster of related elements. For example, the student may choose to study in depth, topics such as cultural asynchrony, organicity, dyslexia, neuromuscular dysfunctions, diseases and conditions due to prenatal influences, etc.

Education 462G. Remedial Reading. Three hours.

A comprehensive course in diagnosis and correction of reading skills. It is designed to help the teacher understand the reasons underlying reading difficulties and how these problems can be remedied.

Education 465G. Auditory and Visual Problems. Three hours.

Techniques for measuring hearing threshold with emphasis on the educational implication of impaired hearing, group screening, individual pure-tone testing, and speech audiometry. Identification of the partially sighted and materials and methods to aid in teaching the visually handicapped.

Education 481G. Introduction to Educational Statistics. Three hours.

A study of the applications of statistical and graphical methods to psychological and educational data. Included are: tabulation and graphic representation of frequency distributions; selected measures to correlation; and basic sampling.

Education 499G. Workshop. One to six hours.

Prerequisite: Graduate classification and nine hours of education.

A workshop for specifically designated task orientation in Education. The length of the workshop determines the number of credits granted.

May be repeated in additional subject areas to a maximum of six semester hours.

Education 500. Research Methods in Education. Two hours.

Selection, delimitation, and statement of a research problem; techniques of bibliography building; methods of organization; recognized methods of investigation; and style-standards for research writing. Strongly recommended for all beginning graduate students.

Education 509. Advanced Educational Psychology. Two hours.

An advanced and applied study of principles of learning, mental health, and development in relation to evaluative, remedial, and educational processes.

Education 510. Advanced Human Growth and Development. Three hours.

A study of the developmental processes in childhood and adolescence. Application of principles of development and research findings and theory to human behavior.

Education 520. Research Problems in Elementary Education. One to three hours.

Prerequisite: Education 500.

Intensive and comprehensive investigation of a problem, or problems, in the field of elementary education. The problem, or problems, selected must be such that the collection and analysis of original data are basic to the solution.

Problems to be studied must be approved in advance by the instructor, and the student must expect to have conferences with the instructor as necessary.

Education 524. Practicum in Reading. Three hours.

(Formerly Remedial Reading)

Prerequisite: Education 462G or 526.

Supervised practice in working with students with reading difficulties. Practice in analyzing problems in reading and related language arts and the opportunity to provide corrective work. Three hours in seminar and six hours per week with a remedial student required.

Education 526. Investigations in Reading. Two hours.

Prerequisite: Education 326, or the equivalent, and teaching experience.

A study of current literature in the field. Emphasis on methods of investigation and research findings concerning reading. Papers and oral reports required.

Education 527. Reading in the Elementary School: Current Materials and Methods. Three hours.

Prerequisite: Education 326.

A course that provides for extensive study of recent trends in materials and methods in reading in the elementary school, including significant research studies which relate to these.

Education 528. School Law. Two hours.

The state's responsibility for education; legal safeguards on school funds; status of the local school district; responsibilities of school boards and officials; liability of school boards and officers; legal provisions affecting school personnel, attendance, discipline, textbooks and courses of study. Emphasis on the Kentucky Code.

Education 530. Curriculum Construction. Two hours.

Evaluation of past and present curricular aims and practices in the twelve-grade school; organization and development of the curriculum program in the local school system; research, evaluation, and experimentation in curriculum development; conditions of effective group endeavor.

Education 532. Elementary School Curriculum. Two hours.

Implications of the wider goals of elementary education; the relation of each area of learning to the total program; research studies, and promising classroom experiences.

Education 534. Secondary School Curriculum. Two hours.

Past and present curricular practices in the secondary school; organization and development of the curriculum program in the local school system; research, evaluation, and experimentation in curriculum development.

Education 535. Curriculum Construction in the Two-Year College. Two hours.

Theoretical and practical basis for the curriculum of the comprehensive two-year college; its relationship to the secondary school and the four-year college; evaluation of current curriculum aims and practices; and consideration of sound practices for curriculum construction in the two-year college.

Education 540. The Two-Year College in Higher Education. Two hours.

The unique role of the two-year college in American education; its philosophy and functions, and patterns of organization and administration for academic, business, student personnel, public relations and development activities.

Education 541. Academic Problems in Higher Education. Two hours.

Selection, assignment, guidance, evaluation, payment, and retirement of academic personnel; promotional policies; organization of faculty for development of policies; and curricular development and instructional resources.

Education 542. Student Personnel in Higher Education. Two hours.

The principles of student personnel in higher education; the program of services, and organization and administration of the personnel program.

Education 543. Seminar in Higher Education. Two hours.

Group study on issues of the two-year college in higher education.

Education 544. Independent Study in Higher Education. One to three hours.

Individual study and/or research on issues of the two-year college in higher education.

Education 545. Principles of Education Administration. Three hours.

Historical development of school administration as a profession; basic principles and changing concepts; organization and control of the American school system; and the function of the administrator in the various areas of school administration.

Education 555. Teaching the Exceptional Child. Two hours for each sub-section of the course. Maximum credit of ten hours.

A—Educable Mentally Retarded

B—Trainable Mentally Retarded

C—Gifted Children

D—Emotionally Disturbed

E—Physically and Perceptually Handicapped

Evaluation and practice in the use of materials, method and curricula sequences for special class children. Emphasis is placed on adapting learning environments related to language, art, social skills, quantitative operations, health and creative activities to meet the demands of children with special learning disorders or talents.

Education 556. Principles of Guidance. Two hours.

Current practice and typical guidance programs in historical perspective, purposes and strategies, policies and practices related to social demands and individual needs and development, guidance in the community with special emphasis on the problems of guidance programs for the rural disadvantaged, issues and trends in relation to changing educational emphases and programs.

Education 560. Supervision. Three hours.

Prerequisite: Admission to a leadership program.

Nature and scope of supervision; principles governing the supervisory process; planning supervisory programs; facilitating teacher growth; improving the curriculum; the use of instructional materials; evaluation of instruction; and remedial programs.

Education 561. Exceptional Child Research and Problems. Two to six hours.

A seminar research problems course that provides students with an opportunity to explore in depth particular problems related to learning disorders.

Education 562. Individual Inventory Techniques. Two hours.

Designed to increase counselor competence in individual analysis through special training in the choice and utilization of statistics, tests, sociometrics, and observational and interview techniques.

Education 564. Occupational Information. Two hours.

Sources, descriptions, classifications, and evaluation of occupational materials to be used in individual and group guidance procedures with implications for integration into the total curriculum.

Education 566. Techniques of Counseling. Two hours.

Prerequisite: Education 381G and 556 and admission to the program for Guidance Counselors.

Basic philosophy, principles and procedures in counseling; ways and means of securing, organizing and disseminating educational and occupational information.

Education 568. Organization of Special Classes in the School. Two hours.

A consideration of the relation between the special-class teacher and students within the matrices of the larger school community. Techniques of parental counseling and introduction of the students into the work and social aspects of the larger community.

Education 569. Practicum in Guidance and Counseling. Two hours.

Prerequisites: Education 564 and 566.

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

Education 570. Research Problems in Secondary Education. One to three hours.

Prerequisite: Education 500.

The same as Education 520 except that the problem, or problems, must be selected from the field of secondary education.

Education 571. Seminar — Problems of the Teacher. One hour.

Individual research problems and theses; review of current educational research; significant problems in education especially related to the role of the teacher. Oral reports and group discussion.

Education 572. Seminar—Problems of the Principal. One hour.

This course is similar to Education 571 except that problems relating to the role of the principal are considered.

Education 573. Seminar—Problems of the Supervisor. One hour.

The course is similar to Education 571 except that problems relating to the role of the supervisor are considered.

Education 575. Practicum in Special Education. Three to six hours.

Supervised practice in working with specific groups of exceptional children in educational, clinical, or institutional settings using a holistic multi-discipline approach to therapy and/or prescriptive teaching. Credit towards practice teaching and/or clinical experience with retarded, partially sighted, hearing loss, gifted, disturbed, physically handicapped, speech disorder or multiple handicapped children or adolescents is provided, depending on the student's area of concentration.

Education 580. History and Philosophy of Education. Three hours.

Beginnings of the American system of education; various theories of education; impending changes in American education; problems challenging education today; philosophies of learning.

Education 584. School Finance. Two hours.

State school support; apportionment of state funds; sources of school revenue; the local school unit and finance; federal aid for education; and administrative control of school funds—budgeting and accounting.

Education 585. Research Problems of the School Leader. One to three hours.

Prerequisite: Education 500 or equivalent experience.

Intensive and comprehensive investigation of a problem or problems in the field of educational administration, involving the collection and analysis of original data.

Education 586. The School Plant. Two hours.

This course is designed for the person preparing to be a school administrator and for the administrator on the job who is attempting to re-examine his perspective or improve his practice in dealing with school plant and auxiliary facilities problems such as: evaluation of existing school building facilities, planning new buildings, determining suitable equipment, and financing building programs.

Education 590. Supervision of Student Teaching. Three hours.

Basic principles and procedures in the techniques of supervision of student teachers. The course is designed to prepare teachers to become supervising teachers who provide the professional laboratory experiences during student teaching. Preparation for the orientation of student teachers, planning for and supervision of teaching, and evaluation are included.

Education 591. The School and the Public. Two hours.

School-community relations based on the concept of the changing school in a changing community. Consideration of the forces of social and economic changes that impinge upon the school, and are in turn affected by the school. The proper function of publicity in school-community relations.

Education 592. Administration of School Personnel. Three hours.

Designed to meet the needs of educational leaders with respect to the various dimensions of directing the efforts and activities of the personnel of the school. Personnel involved include: faculty, staff, special service, pupil, custodial, maintenance and transportation.

Education 595. The Elementary School Principal. Two hours.

Prerequisite: Admission to the program for the principalship.

Organization of the elementary school; administering pupil, professional and non-professional personnel; supervision, community relations; scheduling; and special services.

Education 596. The Secondary School Principal. Two hours.

Prerequisite: Admission to the program for the principalship.

Administration of school personnel; co-curricular activities; guidance program; supervision, schedule making; in-service development; and public relations.

Education 599. Thesis. Two to six hours.

Special Education and Psychology

PSYCHOLOGY

Requirements for the Master of Arts:

Students majoring in Psychology for the Master of Arts degree may emphasize either General-Experimental Psychology or School Psychology. An identical core of twelve semester hours of course work is required in each of the programs, the remaining eighteen hours being devoted to the student's major field of interest.

The General-Experimental program can terminate with the master's degree which will enable the holder to begin employment or continue his studies. The master's degree in School Psychology should be considered as a step toward the Sixth Year Certificate.

Requirements for Unconditional Admission to Graduate Study in Psychology:

1. General admission to graduate study.
2. Minimum of 18 semester hours in Psychology including

General Psychology	3 hours
Experimental Psychology	3
Statistics	3

Students who have not earned credit in these three courses may be accepted provisionally provided they have a satisfactory psychology background. Make-up credit in these areas will not count towards the minimum of thirty hours required for the degree.

Requirements for the Degree

(General-Experimental Emphasis)			Sem. Hrs.
Mathematics	453G	Statistics	3
Psychology	482G	Experimental Psychology II	3
	486G	Perception	3
	500	Seminar in Experimental Psychology ..	3
	510	Advanced Human Growth and Development	3
	521	Advanced Physiological Psychology	3
	533	Personality Theory	3
	534	Learning Theory	3
	599	Thesis	6
Minimum for the degree			30

Requirements for the Degree

(School Psychology Emphasis)		Sem. Hrs.
Mathematics	453G Statistics	3
Psychology	456G Introduction to Clinical Psychology	3
	521 Experimental Psychology II	
	or	
	Advanced Physiological Psychology	
510	Advanced Human Growth and Development	3
533	Personality Theory	3
557	Mental Measurements I	3
558	Mental Measurements II	3
561	Introduction to Projective Techniques ..	3
572	Internship in School Psychology	6
Minimum for the degree		30

DESCRIPTION OF COURSES

Psychology 354G. Social Psychology. Three hours.

(See Sociology 381G.)

Psychology 381G. Measurement Principles and Techniques. Three hours. (See Education 381G.)

Psychology 389G. Psychology of Learning. Three hours.

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

Psychology 456G. Introduction to Clinical Psychology. Three hours.

A survey of basic theoretical issues and research in the areas of assessment and psychotherapy, ethical, legal, and other professional problems in clinical psychology. Emphasis on clinical aspects of the school psychologists' functions in working with school age children.

Psychology 481G. Experimental Psychology I. Three hours.

The study of experimental methods and design related to sensation, perception, discrimination, learning, forgetting, and retention.

Psychology 482G. Experimental Psychology II. Three hours.

A continuation of Psychology 481G. This course includes original psychological experimentation by the student, theory laboratory method and data analysis.

Psychology 484G. Perception. Three hours.

Sensory and physical basis of perception; the interaction of environmental information with complex psychological processes.

Psychology 485G. Systems and Theories. Three hours.

An intensive study of the more influential historical systems of psychology including structuralism, functionalism, associationism, behaviorism, Gestalt psychology, and psychoanalysis, and a treatment of contemporary developments.

Psychology 486G. Motivation. Three hours.

A consideration of the bases of human and animal motivation in relation to other psychological processes.

Psychology 490G. Abnormal Psychology. Three hours.

The psychology, behavior and treatment of children having superior or inferior mental abilities; perceptual handicaps, orthopedic problems, and behavioral disorders, and the general methods of facilitating growth, therapy, and research in this area.

Psychology 500. Seminar. Two to nine hours.

Prerequisite: Permission of major professor in Psychology. May be repeated for credit.

Psychology 509. Advanced Educational Psychology. Two hours. (See Education 509).**Psychology 510. Advanced Human Growth and Development. Three hours. (See Education 510).****Psychology 512. Aspiration and Ability Evaluation. Three hours.**

Administration, interpretation and use of tests in individual and group guidance; educational diagnosis; evaluation of student interests and abilities. Establishing evaluation programs in the schools to measure achievement, attitudes, interests, and pupil abilities.

Psychology 521. Advanced Physiological Psychology. Three hours.

Interaction of physiology and behavior, including the study of the peripheral and central nervous system as they relate to motor coordination and reflex processes.

Psychology 533. Personality Theory. Three hours.

An examination of theories of personality. The relation of current theories to psychological research will be examined.

Psychology 534. Learning Theory. Three hours.

An examination of theories of learning and perception. The relation of these theories to psychological research will be examined.

Psychology 557. Mental Measurements I. Three hours.

Types of psychometric and objective methods to measure mental ability and behavior. Special emphasis on training students to evaluate ability and transmit data on learning and behavior problems of clients to other professionals and school personnel.

Psychology 558. Mental Measurements II. Three hours.

A continuation of Psychology 557. Increased emphasis on evaluative procedures.

Psychology 561. Introduction to Projective Techniques. Three hours.

Projective tests as instruments for collecting thought content, attitudes, and feelings; their use in clinical diagnosis and therapy. Practice in administering, scoring, and interpretation.

Psychology 562. Advanced Projective Techniques. Three hours.

A continuation of Psychology 561.

Psychology 564. Construction of Testing Instruments. Three hours.

Principles involved in construction of different types of standardized tests, followed by the construction and item analysis of two original tests by the student.

Psychology 572. Internship in School Psychology. Six to twelve hours.

Placement in school and clinical settings of school psychology trainees for internship under qualified supervision. Open only to advanced graduate students in the school psychologist program. Six hours minimum credit required.

Psychology 573. Clinical Methods. Three hours.

Techniques and theories of the psychotherapeutic and psychodiagnostic processes. Intensive use of projective and objective instruments with preschool and school age populations. Open only to advanced students in the school psychologist program.

Psychology 590. Psychological Research. Two to nine hours.

A seminar research design and problems course providing an opportunity to explore in depth, specific areas of research related to the student's principal professional objective.

Psychology 599. Thesis. Two to six hours.

Requirements: None
SPECIAL EDUCATION
DESCRIPTION OF COURSES

Education 350G. Nature and Needs of Retarded Children. Three hours.

The physical, psychological, and educational needs of the educable and trainable mentally retarded children; research pertaining to the nature and needs of the mentally retarded; ways of developing maximum abilities.

Education 355G. Teaching the Mentally Retarded. Three hours.

A consideration of curriculum sequence as specialized methods of instruction applicable to handicapped learners. The construction, use, and adaptation of materials by teachers who are working with retarded children.

Education 437G. Diagnostic and Remedial Techniques. Three hours.

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

Education 452G. Special Problems in Learning Disorders. Two hours.

An examination of psychological, medical, and educational literature involved with survey, clinical, and experimental work concerning a specific learning disorder. Diagnosis, therapy and prognosis relative to a specific learning impairment or a cluster of related elements. For example, the student may choose to study in depth, topics such as cultural asynchrony, organicity, dyslexia, neuromuscular dysfunctions, diseases and conditions due to prenatal influences, etc.

Education 465G. Auditory and Visual Problems. Three hours.

Techniques for measuring hearing threshold with emphasis on the educational implication of impaired hearing; group screening, individual pure-tone testing speechaudiometry. Identification of the partially sighted and materials and methods to aid in teaching the visually handicapped.

Education 510. Advanced Human Growth and Development. Three hours.

A study of the developmental processes in childhood and adolescence. Application of principles of development, research findings, and theory to human behavior.

Education 555. Teaching the Exceptional Child. Two hours for each subsection of the course. Maximum credit of ten hours.

- A—Educable Mentally Retarded
- B—Trainable Mentally Retarded
- C—Gifted Children
- D—Emotionally Disturbed
- E—Physically and Perceptually Handicapped

Evaluation and practice in the use of materials, methods and curricular sequences for special class children. Emphasis is placed on adapting learning environments related to language, art, social skills, quantitative operations, health and creative activities to meet the demands of children with special learning disorders or talents.

Education 561. Exceptional Child Research and Problems. Two to six hours.

A seminar research problems course that provides students with an opportunity to explore in depth particular problems related to learning disorders.

Insert into Intro + Overview then course

ed. 381G from p. 64

ed. 462G - Remedial Reading from p. 65

ed. 459 from p. 65

Education 568. Organization of Special Classes in the School. Two hours.

A consideration of the relation between the special class teacher and students within the matrices of the larger school community. Techniques of parental counseling and introduction of the students into the work and the social aspects of the larger community.

Education 575. Practicum in Special Education. Three to six hours.

Supervised practice in working with specific groups of exceptional children in educational, clinical, or institutional settings using a holistic, multi-discipline approach to therapy and/or prescriptive teaching. Credit towards student teaching and/or clinical experience with retarded, partially sighted, hearing loss, gifted, disturbed, physically handicapped, speech disorder or multiple handicapped children or adolescents is provided, depending on the students' area of concentration.

Suggested ~~Course~~ Elective Courses in Special Education

- ~~Psy. 381G - Measurement, Principles & Techniques~~
 Psy. 389G - Psychology of Learning
 Psy. 301G - Quantitative Methods
 Psy. 360G - Social Psychology
 Psy. 490G - Abnormal Psychology
~~Psy. 498~~
 Psy. 509 - Advanced Educational Psychology
 Psy. 534 - Learning Theory
 Psy. 512 - Inspiration & Ability Testing
 Psy. 533 - Personality Theory
 Math. 401G - Statistics
 Phys. Ed. 475G - Adapted Physical Education
~~Sp. Ed. 370 - Int. to Sp. Ed.~~

Health, Physical Education and Recreation

DESCRIPTION OF COURSES

Physical Education 432G. Physiology of Exercise. Two hours.
Prerequisite: Physical Education 402, or permission of instructor.
Same as Health 432G.

Physical Education 475G. Adapted Physical Education. Two hours.
The nature and extent of the problem of exceptional students and the means whereby these students can be aided through physical education.

Physical Education 500. Current Problems. Two hours.
The purpose of this course is to identify, evaluate and propose solutions for problems confronted by individuals and groups who are concerned with health, physical education and recreation.

Physical Education 501. Tests and Measurements in Health, Physical Education and Recreation. Three hours.

Advanced principles of evaluation in health, physical education and recreation.

Physical Education 503. Theory and Philosophy of Dance. Two hours.
The relationship of aesthetics and dance in education and as a performing art.

Physical Education 504. History and Principles of Physical Education. Three hours.

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

Physical Education 505. Planning Facilities. Two hours.
A study of school facilities, equipment, site selection, building plans and equipment placement in programs of health, physical education and recreation.

Physical Education 508. Analysis of Motor Skills. Three hours.
Application of the principles of physics to the various skills in motor activities.

Physical Education 510. Readings in Health, Physical Education, and Recreation. Two hours.

Extensive guided reading to further acquaint the student with the total area.

Physical Education 570. Research Problems. One to three hours.

Arranged to meet the needs of the student.

Health

DESCRIPTION OF COURSES

Health 432G. Physiology of Exercise. Two hours.

Prerequisite: Health 402, or permission of instructor.

Study of the response of the body to muscular activity: nature of contraction, work and efficiency, circulorespiratory adjustment, training and fitness. Two lecture-discussion hours per week.

Health 501. School Health Services. Two hours.

Prerequisite: Twelve hours of undergraduate credit in Health.

Seminar approach to the total program of health in the school: health education, health services, health environment. Two discussion hours per week.

Health 512. Public Health Services. Two hours.

Prerequisite: Twelve hours of undergraduate credit in Health.

Seminar approach to the total program of public health: history, philosophy, administration, services. Two discussion hours per week.

Health 570. Research Problems. One to three hours.

Prerequisite: Twelve hours of undergraduate credit in Health and permission of instructor.

Intensive investigation of a program in health; program must be approved prior to enrollment. Conferences with instructor as necessary.

Recreation

DESCRIPTION OF COURSES

Recreation 530. Programs in Recreation. Two hours.

Study of different media through which recreation is presented. Consideration is given to sponsoring groups, facilities, finances, maintenance, equipment, supplies and promotion.

Recreation 535. Organization and Administration of Intramural Activities. Two hours.

The history and philosophy of intramural activities; the relationship of intramural activities to education, physical education, and recreation; organizational patterns, principles, and policies governing intramural activities; review of successful college and secondary school programs.

Recreation 540. Recreation in the Senior Years. Two hours.

Designed for students interested in preparing for the responsibility of organizing and conducting appropriate programs for senior citizens.

Library Science

DESCRIPTION OF COURSES

Library Science 302G. Library Organization and Administration. Three hours.

An introductory course, giving a broad picture of the school library and its function in the total school program. It includes a unit in the history of libraries, the philosophy of school librarianship, the study of housing and equipment, the acquisition and mechanical processing of library materials, circulation routines, public relations, uses of student staff, knowledge of library standards, and related topics.

Library Science 311G. Cataloging and Classification. Three hours.

The Dewey Decimal Classification; principles and methods of simplified cataloging, including subject headings needed by school librarians. Skill in typing is required.

Library Science 321G. Books and Materials for Young People. Three hours.

A study of the underlying principle of selecting books and related materials for young people. Included are—a study of reading interests, development of criteria for judging books and materials, understanding of book reviews and book talks, and an acquaintance with selection aids. Emphasis on reading novels, short stories, drama, biography, travel, and readable books in other nonfiction fields.

Library Science 322G. Books and Materials for Adults. Three hours.

The library in adult education; books and other informational materials; appraisal of reading interests, habits, needs and abilities; techniques of reading guidance.

Library Science 382G. Audio-Visual Aids in Instruction. Three hours.
(See Education 382G.)

Library Science 411G. Reference and Bibliography. Three hours.

This is a study of general reference books and reference books in certain subject fields. Some practice in bibliography making is included.

Library Science 475G. School Library Practice. Four hours.

Prerequisites: All other library science courses except those taken the same time as the practice work. At least one half of the library science courses in residence at Morehead State University.

The practical application of all procedures which are used in a modern school library. Reading guidance, story telling, book talks, and organization of unit materials are stressed.

Library Science 499G. Workshop. One to six hours.

Prerequisites: Nine hours in Library science.

This course is designed to accommodate special workshops and institutes in library science needed to serve the practicing librarians in the Morehead State University region but is open to qualified students from other areas.

The length of the workshop determines the number of credits granted. It may be repeated but not to exceed a total of six hours.

Library Science 511. Subject Bibliography. Three hours.

Prerequisite: Library Science 411G or equivalent.

A comprehensive study of the reference materials in the humanities, the social studies, and the natural and applied sciences.

Library Science 527. Research in Children's Literature. Three hours.

Prerequisite: A course in Literature for Children.

Open to those students prepared to carry on semi-independent study in the literature for children and youth. The reading of books for children and youth and the studying in depth of one area are required.

Library Science 570. Research Problems. One to three hours.

Prerequisites: Library science courses leading to the provisional certificate; Education 500 and one year of school library experience.

For experienced librarians concerned with improving library services in elementary, junior, and senior high schools. Problems will be selected that will afford the opportunity for comprehensive investigation in one or more areas of library service.



SCHOOL OF HUMANITIES

J. E. DUNCAN
Dean

ART
MUSIC
LANGUAGES AND LITERATURE
COMMUNICATIONS
PHILOSOPHY

FINE ARTS

DESCRIPTION OF COURSES

Fine Arts 187-488G. Opera Workshop. One hour of credit per semester.

An introduction to the techniques of musical theater with emphasis placed on the integration of music and action-dramatic study of operatic roles emphasizing the development of posture, movement, and interpretation through lectures, exercises, and actual performance. Open to students upon consent of the instructors.

Fine Arts 560. Comparative Arts. Three hours.

A study of music, literature, and the visual arts in relation to their social, religious, and historical backgrounds. Emphasis is placed on aesthetic and philosophical interrelationships. Recommended as a general course for students from any field of study.

Art

DESCRIPTION OF COURSES

Art 413G. Oil Painting III. Two hours.

Prerequisites: Art 212 and 312.

Advanced oil painting. Experiences in oil painting leading toward individual achievements in styles and techniques.

Art 416G. Water Color III. Two hours.

Prerequisites: Art 215 and 315.

Advanced painting with water color aimed toward individual interpretations and experiences.

Art 421G. Art Education Workshop. Three hours.

Prerequisites: Art 121 and 221 or the equivalent.

Participation in art activities according to individual needs; research studies on the psychology of using various materials and activities at different age levels; and an introduction to new creative methods and media. Also the study of plans and furnishings for art rooms in schools of various types and levels.

Art 455G. Advanced Art Problems. Two hours.

Prerequisite: Art 303.

A continuation of Art 303.

Art 482G. Commercial Art II. Two hours.

Prerequisite: Art 381.

Advanced experiences in the practical applications of commercial art techniques.

Art 494G. Sculpture III. Two hours.

Prerequisite: Art 294 and 395.

Advanced problems in sculpture involving a combination of materials and their uniqueness as media.

Art 503. Drawing. Three hours.

Prerequisite: Art 304 or permission of the Department.

An advanced approach to drawing with extensive use of various materials and techniques.

Art 505. Figure Painting. Two hours.

Prerequisite: Art 304.

The student works on large canvases with oil paint. Both men and women models are used, and the poses are varied. The student is required to do a minimum of three paintings, one of which shall have more than one figure in the composition. Outside research is required. Individual criticism is given as needed.

Art 513. Painting. Two hours.

Prerequisites: Art 212 and 412.

This course is for art majors and area students who wish to do graduate work in art. Research into the techniques of various types and materials of painting such as: oil casein, plastic, plaster, a secco, and buon fresco. Also, examination of the various styles of expression in paint.

Art 516. Water Color. Two hours.

Research into the techniques of various types of water color painting expression, creative expression, and experimentation with different water color painting techniques and materials.

Art 576. Individual Problems. Three hours.

Prerequisite: Art 455G or permission of the Department.

A means by which the candidate may investigate special problems, or those which are not offered as a regular part of the curriculum. Course content will be decided in joint conference between candidate and instructor.

Art 594. Sculpture. Three hours.

Prerequisite: 494G or permission of the Department.

An advanced approach to sculpture with extensive use of various materials and techniques.

Music

Graduate Degrees in Music

Requirements for Unconditional Admission to Graduate Study in Music:

1. General Admission to Graduate Study.
2. Completion of a Bachelor's Degree in Music or its equivalent.
3. A minimum standing of 3.0 on all undergraduate music courses above the freshman level.

Master of Music Education:

In addition to meeting all of the requirements of a general nature prescribed by the University for the master's degree, the candidate must complete one of the following curricula —

<i>Emphasis on Performance:</i>	Sem. Hrs.
Private applied, two semesters	4
Graduate recital	2
Studies in Music Style (590)	3
Music electives (to be chosen with the approval of the program advisor). A minimum of four hours in music history and literature must be included	13
Seminar in Music Education	2
Related field (to be chosen with the approval of the program advisor)	6
Total	30

Emphasis on Research:

Private applied, two semesters	2
Studies in Music Style (590)	3
Music electives (to be chosen with the approval of the program advisor). A minimum of four hours in music education and four hours in music history and literature must be included	13
Seminar in Music Education	2
Related field (to be chosen with the approval of the program advisor)	6
Thesis	4
Total	30

Master of Music:

In addition to meeting all of the requirements of a general nature prescribed by the University for the master's degree, the candidate must complete the following curriculum —

	Sem.	Hrs.
Private applied, two semesters		8
Graduate recital		2
Studies in Musical Style (590)		3
Music electives (to be chosen with the approval of the program advisor). A minimum of six hours in music history and literature must be included. A maxi- mum of six hours may be taken in a related field		17
Total		<hr/> 30

Class and Private Applied Music Courses

Applied music courses may be taken through either class or private instruction. Private instruction may be taken by students who are not following a music curriculum, in which case the requirements are different from those which are established for music students. Music students may take private lessons on instruments other than their applied major. These will be referred to as secondary instruments. Course numbers will be assigned from the following sequences of numbers. In order to progress from one level to the next a minimum grade of C must have been earned.

117-518. Private Applied Music (Non-music students). **One hour.**

151-552. Private Applied Music (Secondary instruments or voice). **One hour.**

157-558. Private Applied Music (Major instruments or voice). **One to four hours.**

GRADUATE DEGREES IN MUSIC**DESCRIPTION OF COURSES**

Music 379G. Double-Reed Making. One hour.

Concepts and problems of practical double-reed making in oboe through contra-bassoon.

Music 381G. Literature of the Piano. Three hours.

A survey of music written for the piano and its predecessors concentrating on the music of the major composers from the English virginalists through composers of the present.

Music 431G. Arranging. Two hours.

Prerequisite: Music 232 or the equivalent.

A study of the practical ranges of voices and instruments; transposition; scoring of selected materials and/or original compositions for voices and instruments.

Music 432G. Advanced Arranging. Two hours.

Prerequisite: Music 431.

A continuation of Music 431. Scoring for large vocal and instrumental ensembles.

Music 463G. Advanced Composition I. Two hours.

Prerequisite: Music 364 or the equivalent.

Study and examination of students' original creative work in private conferences. Emphasis upon performance of students' works.

Music 464G. Advanced Composition II. Two hours.

Prerequisite: Music 463.

A continuation of Music 463.

Music 478G. Teaching of Percussion. Two hours.

Prerequisite: One hour of undergraduate credit in percussion.

An advanced study of the development of percussion instruments, literature and performing techniques.

Music 479G. Marching Band Workshop. Two hours.

An intensive course designed for the study of the techniques involved in preparing marching bands for performance on the high school and college levels.

Music 491G. School Band Literature. Two hours.

Examination and criticism of available music for both training and concert use. Development of criteria for choosing materials for groups at various levels of attainment.

Music 516. Teaching of Strings. Two hours.

A survey of teaching techniques and materials at all levels with emphasis upon applications to the school orchestra program. Observation and practical experience in teaching and coaching.

Music 525. Psychology of Music. Two hours.

A study of human behavior in its relation to music, including such psychological processes as perceiving, learning, remembering, and feeling. Attention is given to the measurement of musical ability and the understanding of its development.

Music 531. Arranging for the Marching Band. Two hours.

Study of current trends in half-time show styles; creative experiments in arranging in various styles; attention to individual projects.

Music 533. Advanced Counterpoint. Two hours.

Analytical study of selected polyphonic works and styles of the 16th and 18th centuries and writing in such forms as canon, motet, madrigal, invention, and fugue.

Music 553. Teaching of Woodwinds. Two hours.

Detailed study of methods of teaching flute, oboe, the clarinets, the saxophones, and bassoon; materials to be used in instruction; attention to specific acoustical and technical problems of tone production. Observation and practical experience in teaching and coaching.

Music 556. Teaching of Brasses. Two hours.

Comparative study of the various techniques and recent trends in the teaching of brass instruments; intensive consideration of the acoustical and technical problems involved in performance. Observation and practical experience in teaching and coaching.

Music 560. Graduate Recital. Two hours.

A solo public recital of approximately one hour duration, the literature to be selected with the approval of the private instructor. Approval to present the recital must be given by a faculty jury.

Music 561. Teaching of General Music. Two hours.

A pedagogy course relating to the various school music subjects usually referred to as general music. Emphasis is placed upon music for the non-performing student in the elementary and secondary grades. Attention is given to recent trends in the presentation of music literature, theory, creativity, the use of informal instruments, etc.

Music 563. Creative Writing I. Two hours.

Prerequisite: Music 464 or the equivalent.

Private coaching and advising in the development of the students' individual style of composition.

Music 564. Creative Writing II. Two hours.

Prerequisite: Music 563.

Continuation of Music 563. Public performance of students' works is expected.

Music 570. Research Problems in Music Education. One to three hours.

Investigation of a problem in the field of music education. The problem selected must be such that the collection and analysis of original data are basic to the solution. The problem to be studied must be approved by the instructor. Conferences with the instructor will be scheduled as necessary. A written report of the problem and the results of the study must be submitted.

Music 571. Advanced Conducting. Three hours.

Advanced instruction and experience in the preparation, rehearsal, and performance of ensemble music.

Music 580. Seminar in Music Education. One hour.

A study of the literature pertinent to the philosophy and problems of teaching music in the schools.

Music 581. Seminar in Music Education. One hour.

A continuation of Music 580.

Music 590. Studies in Musical Style. Three hours.

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

Music 591. Symphonic Literature. Three hours.

Orchestral literature from the Mannheim school to the present. Emphasis upon formal structure, harmonic idioms, and orchestration. Analysis of representative works.

Music 592. Choral Literature. Two hours.

Vocal ensemble and choral literature from 1400 to the present; stylistic traits, types of compositions, sources, and performance practices.

Music 593. Contemporary Music. Three hours.

A study of the compositions and theories of those composers who have contributed significantly to the music of the twentieth century. The period from about 1910 to the present will be included.

Music 594. Chamber Music. Two hours.

A study of the literature for small ensembles from the eighteenth century through the present. Emphasis upon structural analysis, stylistic characteristics, and innovations.

Music 595. Song Literature. Two hours.

A survey of music for solo voice, beginning with seventeenth century literature and continuing through the present day.

Languages and Literature

ENGLISH

For the Master of Arts Degree:

Students majoring in English for the Master of Arts degree may emphasize either English Literature, American Literature, Linguistics, or a combination of these.

Requirements for Unconditional Admission to Graduate Study in English:

1. General admission to graduate study.
2. Completion of an undergraduate major or minor in English.
3. A minimum standing of 3.0 on all undergraduate English courses above the freshman level.

Requirements for the Degree:

1. Completion of a minimum of 18 semester hours of approved course work in English. At least 12 hours of this work must be earned in courses open only to graduate students.
2. Completion of an approved thesis or monograph.
3. Completion of a minimum of 30 semester hours of graduate work. (This includes the credit allowance for the thesis or monograph.)
4. A reading knowledge of a modern foreign language.
5. Successful completion of a final oral examination including defense of the thesis or monograph. Written examinations may also be required at the discretion of the student's committee and the Dean of Graduate Programs.

DESCRIPTION OF COURSES

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

The shaping forces of our language from an early Germanic dialect to its present form; streams of other languages that have enriched the English tongue; grammar, rules, and conventions and their relation to language usage; semantics.

English 400G. The Teaching of English. Three hours.

The philosophy and rationale of content and methods of teaching English in the American high school today in terms of the tri-component curriculum of language, literature, and composition. The teacher and his profession, especially in relation to organization and publications in English, will also be covered. Directed observations, mini-teaching, closed-circuit television, kinescopes, video tapes, and tape recordings will be used to illustrate methods of teaching English.

English 401G. Linguistics: Semantics. Three hours.

MOREHEAD STATE UNIVERSITY
Morehead, Kentucky

Palmer L. Hall
Director of Graduate Study
School of Education

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English 452G. Early Dramatic Literature. Three hours.

A detailed study of representative plays from the great periods of dramatic literature from the Greeks to mid-nineteenth century. Readings of plays and collateral readings in critical sources.

English 453G. Modern Drama. Three hours.

A detailed study of the drama from the growth of realism to the present day. Specific emphasis on various styles of the late nineteenth and twentieth centuries. Readings of representative plays and collateral readings in critical sources.

English 460G. Early American Authors. Three hours.

The writings and backgrounds of Bradford, Taylor, Edwards, Franklin, Paine, and Jefferson. Limited consideration of lesser figures in the development of American letters.

English 462G. Nineteenth Century American Fiction. Three hours.

The development of American fiction from Brown to Crane. Emphasis on Irving, Cooper, Poe, Twain, James and Crane. Limited consideration of lesser figures in the development of the novel and short story

English 464G. Twentieth Century American Fiction. Three hours.

The development of American fiction from 1900-1960. Emphasis on Dreiser, Anderson, Dos Passos, Fitzgerald, Wolfe, Hemingway, Faulkner, and Steinbeck. Limited consideration of lesser figures. Consideration of both themes and form, but more of the former.

English 466G. American Poetry. Three hours.

The development of American poetry from the beginnings through the twentieth century to 1960.

English 471G. European Literature 1100-1600. Three hours.

A study of the heroic epics, the courtly poets, Dante, Petrarch, Boccaccio, Machiavelli, Erasmus, Montaigne, and Rabelais.

English 472G. European Literature, 1600-1800. Three hours.

A study of selected works, in English translation, of Cervantes, Racine, Moliere, Pascal, Voltaire, Diderot, Goethe, and Schiller.

English 473G. Twentieth Century European Literature. Three hours.

A study of selected works in English translation of such representative writers as Mann, Proust, Chekhov, and Kafka, with special emphasis upon the existentialist writers.

English 495G. Linguistics: Composition. Three hours.

Gives much practical emphasis to writing situations essential for teachers, for their students, and for persons going on for graduate work. Language patterns, inherent symbols and their meanings, and tagmemic considerations are given the major attention. Formal, informal, and creative pieces of oral and written composition are essential parts of the course work.

English 503. Bibliography. Three hours.

An introduction to graduate research in American and English literature with particular emphasis on bibliographical materials and methods. Required of all candidates for Master of Arts with a major in English.

English 513. Literary Criticism. Three hours.

A historical survey of literary criticism in Europe (from the classical period to the twentieth century). Readings in major works of criticism and the development of critical theory through study of these works. Covers classicism, Renaissance humanism, romanticism, neoclassicism, realism, naturalism, and impressionism.

English 519. American Renaissance. Four hours.

An intensive study of the transcendental movement and its influence on American literature as seen primarily in the works of Emerson, Thoreau, Hawthorne, and Melville.

English 520. Major American Poets. Four hours.

Intensive study of Longfellow, Whitman, Dickinson, Frost, Stevens and Eliot.

English 524. American Writers in Perspective. Four hours.

This course is designed to provide the student the opportunity to discover relationships throughout the development of American literature that may not be apparent upon studying a single phase of its history. Thematic development, growth of a genre, and regional qualities are some of the topics studied in the course.

English 528. American Literary Criticism. Three hours.

Concentration on American thought in criticism in the last forty years or so. Study of selected groups of critics, liberal and radical critics, New Critics, or neo-Aristotlelians.

English 529. Directed Studies in American Literature. One or two hours.

Individual study under the direction of the staff.

English 531. Studies in Old English Literature. Four hours.

Prerequisite: English 431G or the equivalent.

An intensive reading of selected Old English poetry or prose.

English 532. Directed Studies in English Education. Two hours.

Prerequisite: Admission to the graduate program in English or Education.

The student selects an approved topic in English Education for individual study. The area of study should be connected with the student's future graduate school or professional plans, as well as his needs and interests.

English 541. Chaucer's Era and Middle English. Four hours.

A study of the work of Chaucer and other significant English literature from the twelfth through the fifteenth centuries.

English 543. English Renaissance. Four hours.

Elements of the Renaissance, and Reformation, together with the poetry, prose, and drama of the period from 1500-1660—with Milton—will be studied and evaluated.

English 545. Jacobean and Restoration Drama. Four hours.

Contributions of the leading authors.

English 547. Neoclassical Period. Four hours.

An intensive study of the poetry and prose of major British writers from 1660-1780 with emphasis on Dryden, Pope, Swift, and Johnson. Minor writers will be studied in reading and papers.

English 548. English Romantic Period. Four hours.

An intensive study of the poetry of Wordsworth, Coleridge, Shelley, Keats, and Byron. Evaluation of political, historical, economic, and philosophical factors influencing and determining romantic principles. Includes study of bibliographical materials together with the study of the works of Tennyson, Arnold, Browning, Newman, Huxley, and Ruskin.

English 550. Victorian Period. Four hours.

An intensive study of the works of Tennyson, Arnold, Browning, Newman, Huxley, and Ruskin.

English 552. Twentieth Century English Literature. Four hours.

A consideration of the works, influence, and literary and historical contexts of Eliot, Auden, Spencer, Joyce, Conrad, Woolf, Huxley, and Forster.

English 553. Directed Studies in English Literature. One or two hours.

Individual study under the direction of the staff.

English 580. English Syntax. Four hours.

Stresses syntactical studies primarily in the English language and specifically in the use of American English structures. Centers on the relationships of elements of words in statements. The significance of morphology and syntax will be stressed, and the point at which syntax, as a part of grammar and the structures of rhetoric can be unified, will be discussed.

English 583. Philosophy of the Language. Three hours.

Concentrates on the problems of knowledge insofar as the language itself is concerned. Ordinary language and its usage will be considered, as well as the language that is notional. Considers elements which are metalinguistical, microlinguistical, or prelinguistical.

English 585. Psycholinguistics. Three hours.

Gives both theoretical and practical applications to all psychological aspects of language, all considered with respect to the person's "i.p.f." and to his cognitive and emotive import and purpose. Problems in aphasia considered. Also, emotive, intellectual, and sensorial responses to experience and their measurements in terms of Plutchik's emotive states, and reasons for linguistic utterances will be considered as to their effects on language competence.

English 591. Dialectology. Four hours.

Details all the regional varieties of a language, the isoglosses, the dialect boundaries, the phonological differences, and the lexical variations. Considerations of dialectology in light of different levels of usage: substandard, standard, literary, and prestige. Include discussion of certain elements of "usage."

English 592. Linguistics and Poetic Language. Three hours.

Probes relationships of linguistics as structures and universals, as well as poetic uses, and usage of human language. The limits of poetic language as sound and as graphical expressions are handled in theory and in practical exercises. These exercises will be applied to poetic passages found in prose and to the various forms expressed and communicated in a wide range of poetry.

English 593. Phonology. Three hours.

Pursues the idea that description of a language begins with phonology or with the study of the definition of each phoneme and combinations of phonemes. Study will include use of materials which demonstrate the nature of phonetic forms as pronounceable. Concerned with appreciation of the point at which the phonology of a language has been established. Experience in working with the end point of phonology and with the starting point of telling what meanings are attached to a few phonetic forms.

English 597. Sociolinguistics. Three hours.

Offers theory and practice in the critical area of problems involved in individual language patterning and institutional language patterning; all in terms of authority, family, church, professional goals, and other social activities.

English 598. Directed Studies in Linguistics. One or two hours.

Individual study under the direction of the staff.

English 599. Monograph or Thesis. Two or four hours.

FRENCH

DESCRIPTION OF COURSES

French 441G. The French Novel. Three hours.

Intensive study of a few novels considered as representative of the genre. This course considers such questions as convention and innovation, illusion and reality, imagery, style, structure, and meaning. Various solutions to these problems are examined in modern French masterpieces by such writers as Balzac, Flaubert, Stendhal, Zola, Gide, Proust, Camus, Radiguet, Mauriac and Malraux.

French 442G. The French Drama. Three hours.

Intensive study and analysis of selected plays viewed as representative of the genre. This course considers the various dramatic modes such as the comic, the tragic, the heroic, and the "realistic"; dramatic tension, rhythm, and structure; the dramatization of philosophic and social ideas; lyric and sensuous elements in the theater. Various solutions to these problems are examined in the works of writers such as Corneille, Racine, Molière, Marivaux, Beaumarchais, Hugo, Musset, Claudel, Sartre, Anouilh, and Giraudoux.

French 443G. French Lyric Poetry. Three hours.

Intensive study and analysis of masterpieces of French lyric poetry. The course gives specific attention to problems involving tone and structure; denotation and connotation; image, symbol, and allegory; and allusion, irony, ambiguity, and paradox. The poems are chosen from the work of such writers as Villon, Ronsard, Sponde, La Fontaine; Chenier and the Romantics; Baudelaire and the Symbolists; and Valéry, Claudel, Peguy, and Apollinaire.

French 450G. Reading French I. Three hours.

Prerequisite: Graduate status.

Intensive practice in reading of the French language, with rapid and correct idiomatic translation as the aim. Includes basic grammar study and readings from selected French literature. Designed specifically for students who need a reading proficiency in graduate work.

French 451G. Reading French II. Three hours.

Prerequisite: French 450G or permission of the instructor.

Further study of grammar and drill in reading, with emphasis on reading in the student's own subject area.

SPEECH

DESCRIPTION OF COURSES

Speech 420G. Survey of Rhetorical Theory. Three hours.

Introduction to the basic concepts, terminology and methods of rhetorical criticism as it has evolved from the ancient Greeks to the present age; works of Aristotle, Quintilian, St. Augustine, George Campbell, Richard Whately are studied.

Speech 425G. Survey of British and American Public Address. Three hours.

Study of outstanding British and American public speakers from the eighteenth century to the present. Selected speeches analyzed in their political, social, and economic context.

DRAMATIC ART

DESCRIPTION OF COURSES

Dramatic Art 452G. Early Dramatic Literature. Three hours.

A detailed study of representative plays from the great periods of dramatic literature from the Greeks to mid-nineteenth century. Readings of plays and collateral readings in critical sources.

Dramatic Art 453G. Modern Drama. Three hours.

A detailed study of the drama from the growth of realism to the present day. Specific emphasis on various styles of the late nineteenth and twentieth centuries.

Biology 414G. Plant Pathology. Three hours.

Prerequisite: Biology 215.

Significance of plant diseases; classification of fungi; diseases caused by rusts, smuts, fleshy fungi, bacteria, and viruses; physiogenic diseases; principles and procedures in the control of plant diseases; resistant varieties and culture control.

Biology 415G. Food Microbiology. Three hours.

Prerequisite: Biology 217 or 317.

The microbiology of food production, food spoilage, and food-borne diseases.

Biology 417G. Advanced Bacteriology. Four hours.

Prerequisites: Biology 317 and Chemistry 112.

Bacteria, actinomycetes, and molds pathenogenic of man; phenomena which characterize the infectious processes and host-parasite relationships.

Biology 418G. Pathogenic Microbiology. Three hours.

Prerequisite: Biology 217 or 317.

A study of microbial diseases of man and animals, and host responses to disease.

Biology 419G. Virology. Three hours.

Prerequisite: Biology 317, or consent of instructor.

The morphology and chemistry of the virus particle; symptoms, identification, and control of more common virus diseases of plants and animals; host-virus relationships; consideration of research and research methods concerned with viruses.

Biology 420G. Histology. Two hours.

Prerequisite: Biology 209.

Characteristics of tissues and organs of vertebrates.

Biology 425G. Animal Physiology. Three hours.

Prerequisites: Biology 209 and Chemistry 327 or its equivalent.

A comparison of the cellular physiology, neuromuscular dynamics, physiology of stress, respiratory physiology, circulation, excretion, endocrinology, and special senses of both vertebrate and invertebrate animals.

Biology 433G. Vertebrate Field Zoology. Three hours.

Prerequisite: Biology 209.

Methods of classifying animals; laws of nomenclature; use of keys in identification; habitats; and economic importance of the vertebrates of eastern Kentucky.

Biology 434G. Ichthyology and Herpetology. Three hours.

Prerequisite: Biology 209.

Anatomy, physiology, taxonomy, adaptions, and natural history of fishes, amphibians, and reptiles. Special emphasis will be given to groups common to eastern North America.

Biology 435G. Mammalogy. Three hours.

Prerequisite: Biology 209.

A study of the mammals of eastern North America with special emphasis on the mammals of southeastern North America. Specific studies will include taxonomy, adaptation, natural history, and the methods of skin preparation.

Biology 437G. Ornithology. Three hours.

Prerequisite: Biology 209.

Anatomy, physiology, classification, and identification of birds. Special emphasis will be given to life histories, feeding habits, nesting habits, migration, and economic importance of native species.

Biology 440G. General Parasitology. Three hours.

Study of protozoan, helminth, and arthropod parasites of man and domestic animals. Special emphasis will be given to etiology, epidemiology, methods of diagnosis, measures of control, and general life histories of parasites.

Biology 445G. Medical Entomology. Three hours.

Prerequisite: Biology 334, or permission of the instructor.

Study of orthopod vectors of diseases with special emphasis on insects of medical importance. Anatomy, physiology, identification, ecology and control measures of the more important vectors.

Biology 450G. Plant Anatomy. Three hours.

Prerequisite: Biology 215.

Gross and microscopic studies of the internal and external structures of vascular plants. The cell, meristem, cambium, primary body, xylem and phloem; roots, stems, and leaves; flowers and fruits, ecological anatomy.

Biology 451G. Plant Morphology. Three hours.

Prerequisite: Biology 215.

Study of fossil and living non-vascular plants (except bacteria) and vascular plants with emphasis on morphology, ecology, and evolution.

Biology 455G. Cytology. Three hours.

Prerequisites: Twelve hours of biology and Chemistry 112.

Study of cell morphology with a contemporary approach to principles of biochemistry, genetics and cell development. Basically a study of the cytoplasm, the nucleus, and nucleocytoplasmic relationships.

Biology 461G. Ecology. Four hours.

Prerequisites: Biology 209 and 215.

Qualitative and quantitative effects of present and past physical and biotic factors of the environment on living organisms; plant and animal populations; competition and interdependence of biotic forms. Numerous field trips required.

Biology 474G. Biological Techniques. Two hours.

Prerequisites: Biology 209 and 215.

Collecting, preserving, and caring for biological materials, rearing and culturing a variety of animals and plants used under laboratory and experimental conditions; construction and maintenance of laboratory equipment; basic principles and designs used in the experimental approach to the study of biology.

Biology 490G. Cellular Physiology. Four hours.

Prerequisites: Biology 413G or 425G and Chemistry 327, or its equivalent. (Biochemistry and Calculus are recommended.)

Study of the generalized cell including a detailed treatment of the biochemistry and biophysics of the cell membranes; permeability, diffusion, and osmosis; carbohydrate, lipid, protein, and nucleic acid metabolism; respiration and terminal oxidation; energetics of the cellular processes.

Biology 495G. Biochemistry. Four hours.

Prerequisites: Chemistry 327 and permission of the instructor.

A review of the organic chemistry of carbohydrates, lipids, and proteins, followed by study of their intermediary metabolism; protein synthesis, enzymology, blood chemistry, bioenergetics, fluid electrolyte balance, vitamin and steroid chemistry.

Biology 501. Biological Concepts. Two hours.

Selected concepts from various biological sciences discussed with the particular aim of determining the impact of recent experimentation and discovery on basic biological principles. Offered every spring semester.

Biology 504. Modern Theories of Evolution. Two hours.

A consideration of the history of evolutionary thought; classical evidences of evolution; factors involved in speciation and the origin of higher groups. Offered in alternate fall semesters.

Biology 505. Biology of the Invertebrates. Three hours.

A detailed study of the major invertebrate phyla with special emphasis on their evolution, taxonomy, morphology, physiology, and ecology. Offered in alternate fall semesters.

Biology 506. Biology of the Vertebrates. Three hours.

A detailed study of the vertebrate classes with special emphasis on their evolution, taxonomy, morphology, physiology, and ecology. Local representatives will be thoroughly studied, and numerous field trips will be required. Offered in alternate spring semesters.

Biology 508. Taxonomy of Vascular Plants. Three hours.

Lecture and laboratory work concerned with the collection, preservation, and classification of vascular plants, with special emphasis on ecological adaptations and evolutionary trends. Offered on demand.

Biology 511. Radiation Biology. Two hours.

Study of radiation effects on living systems. The use of isotopes will be discussed with respect to techniques used in determining their various effects on biological systems. Offered once in every calendar year.

Biology 512. Speciation. Two hours.

Study of species concepts in terms of physiological, and neontological forms of reference, with morphological, physiological and ecological considerations; subspecies variation, clines, and reproductive isolation and capacity will be discussed. Offered in alternate fall semesters, or on demand.

Biology 515. Systematic Entomology. Three hours.

A systematic survey of all insect orders with emphasis on the classification of insects to family and beyond. Extensive practice in the use and construction of taxonomic keys. Offered on demand.

Biology 517. Mycology. Four hours.

Study of the morphology, taxonomy, and reproductive physiology of the fungi. Offered on demand.

Biology 520. Advanced Plant Physiology. Three hours.

Prerequisites: Biology 413G or 490G, Chemistry 327, and Physics 132; (Calculus recommended.)

Study of the physiology and biochemistry of green plants with detailed studies of respiratory metabolism, photosynthesis, nitrogen, metabolism, terminal oxidation, and energy relationships of the cell. Offered on demand.

Biology 525. Advanced Genetics. Three hours.

Study of the history of Mendelian genetics followed by the mechanics of inheritance, gene action, development genetics, population genetics, and evolution. Offered on demand.

Biology 530. Endocrinology. Three hours.

Introductory study of the functions of endocrine glands; a review of the embryological development and histological characteristics of the endocrine glands. Offered on demand.

Biology 532. Reproductive Physiology. Three hours.

Study of the physiological processes of reproduction in domestic animals and man. Emphasis will be placed on gonadal functions, endocrine relationships, and fertility problems. Offered on demand.

Biology 540. Advanced Parasitology. Three hours.

An advanced course for those who elect to pursue the study of parasites other than those belonging to the phylum Arthropoda. The course will offer a comprehensive study of the etiology, epidemiology, pathology, diagnosis prophylaxis, and control of parasite protozoans, cestodes, trematodes, and nematodes. Offered on demand.

Biology 571. Seminar. One hour.

Prerequisite: Twelve hours graduate work in biology.

Student and/or faculty reports on individual research, technical papers in scientific journals, recent developments in biology, scientific meetings, or other significant problems in biology. Required of all graduate students in biology. Offered every fall semester, or on demand.

Biology 576. Research Problems. One to three hours.

Prerequisite: Undergraduate minor in biology, or its equivalent.

Independent research in biology. Open only to qualified graduate students seeking an advanced degree other than the Master of Science in Biology. Meeting times and credit hours will vary with the complexity of research problem selected, and problem must be approved prior to registration. Offered on demand.

Biology 599. Thesis. One to six hours.

Research and thesis writing. Varying portions of the total credits may be elected to best fit student schedules. Division permission required. Offered every semester.

Chemistry

For the Master of Science Degree: (Students may emphasize inorganic, organic, or physical chemistry, or a combination of these.)

Requirements for Unconditional Admission to Graduate Study in Chemistry:

1. General admission to graduate study.
2. Completion of an undergraduate major in chemistry.
3. A minimum average of 3.0 on all undergraduate chemistry courses above the freshman level.
4. Acceptable proficiency in mathematics and physics.

Requirements for the Degree:

1. Completion of a minimum of twenty-four semester hours of approved course work in chemistry and related fields. At least eighteen hours of this work must be earned in courses open only to graduate students.
2. A student must complete at least one course in each of the following fields of chemistry: analytical, inorganic, organic, and physical.
3. Completion of an approved thesis—maximum credit allowance is six hours.
4. A reading knowledge of German or Russian.
5. Successful completion of a written examination in the student's major area of study as well as an oral examination to determine the candidate's proficiency in general chemical concepts. The candidate will also defend his thesis before the faculty of the Chemistry Department.

DESCRIPTION OF COURSES

Chemistry 340G. Introduction to Physical Chemistry. (For chemistry teaching majors.) Four hours.

Prerequisite: Chemistry 223 or 327.

A non-calculus approach to the concepts of physical chemistry. Designed primarily for the high school teacher; thermodynamics, concepts of work, internal energy, free energy, entropy, equilibria, and electromotive force.

Chemistry 450G. Qualitative Organic Analysis. Four hours.

Prerequisite: Chemistry 332.

Qualitative analysis of organic compounds, i.e., the identification of "unknown" compounds of organic substances, and the chemical theory underlying such identifications, as well as specialized physical and chemical methods. The course is designed to encourage greater maturity of thought toward typical organic analytical problems and to introduce the student to laboratory work of semi-independent nature.

Chemistry 460G. Instrumental Analysis. Three hours.

Prerequisites: Chemistry 331 and 441; Physics 232.

Theory and practice of instrumental analysis. Opticometric and electrometric methods.

Chemistry 490G. Advanced Physical Organic Chemistry. Two hours.

Prerequisites: Chemistry 332 and 442.

Steric and electronic effects on reactivity of organic molecules; calculations in molecular-orbital and valence-bond theories, molecular rearrangements, and transition state theory.

Chemistry 501. Chemical Thermodynamics. Three hours.

A study of the laws of thermodynamics and their chemical applications.

Chemistry 502. Chemical Kinetics. Three hours.

A study of the rate and mechanism of chemical reactions. Topics to be discussed will include such subjects as the kinetic theory of reactions, activation energy, the influence of added electrolytes, and the influence of the solvent.

Chemistry 510. Advanced Organic Chemistry I. Three hours.

An introduction to advanced synthetic methods of organic chemistry including a survey of procedures in the current literature.

Chemistry 511. Advanced Organic Chemistry II. Three hours.

A detailed study of the mechanisms of organic reactions with emphasis on stereochemistry, molecular rearrangements and experimental methods of physical organic chemistry.

Chemistry 512. Advanced Organic Chemistry III. Three hours.

Reactions, synthesis, and mechanisms of heterocyclic compounds. Single ring and fused ring systems are studied. Physical properties such as electron delocalization energies, infrared and nuclear magnetic resonance spectra are included.

Chemistry 521. Molecular Structure and Chemical Bonding. Three hours.

A discussion of molecular structure based upon the principles of quantum mechanics and the reflection of this molecular structure in the physical and chemical properties of matter such as chemical reactivity, dipole moments, dielectric constants, magnetic susceptibility, and absorption spectra.

Chemistry 531. Advanced Inorganic Chemistry I. Three hours.

The chemistry of inorganic co-ordination compounds including crystal field and ligand field theory. Formation constants, spectra and reactions.

Chemistry 532. Advanced Inorganic Chemistry II. Three hours.

The chemistry of selected non-metals including the boron hydrides, inert gas compounds, and other selected topics.

Chemistry 541. Chemical Spectroscopy. Three hours.

The study of modern spectroscopic methods including infrared nuclear magnetic resonance and mass spectroscopy. The use of spectroscopic techniques in the determination of molecular structure will be emphasized.

Chemistry 551. Biochemistry. Three hours.

An introduction to advanced biochemical principles including bioenergetics and thermodynamic interpretation of mechanisms for biochemical processes.

Chemistry 570. Independent Study in Chemistry. One to three hours.

A means by which the candidate may investigate a special area of chemistry not treated in detail in any course offering. The problem to be studied must be approved by the instructor.

Chemistry 571. Seminar. One hour.

Student and faculty reports on their research, general chemical research papers, or significant problems in chemistry. Required of all graduate students in chemistry.

Chemistry 576. Research Problems. One to three hours.

Independent research in chemistry. Problem must be approved prior to registration.

Chemistry 589. Thesis. One to six hours.

Research and thesis writing. Varying portions of the total credit may be elected to best fit student schedules. The weight of credit will be given for actual research on a problem of the student's choice.

Geoscience

DESCRIPTION OF COURSES

Earth Science 379G. Vertebrate Paleontology. Three hours.

Prerequisite: Biology 208 or permission of instructor.

The Phylum Chordata as represented by the fossil record with emphasis on the Subphylum Vertebrata.

Earth Science 380G. Introduction to Paleobotany. Three hours.

Prerequisites: Earth Science 214 and Biology 215 or permission of instructor.

The fossil plant kingdom with discussion of their origin, morphology, and distribution throughout the geologic time scale. Laboratory studies will involve methods of investigating fossil plants and preparing specimens.

Earth Science 390G. Climatology. Three hours. (Also Geography 390G)

Introduction to the physical elements of weather and climate.

Earth Science 410G. Introduction to Geophysics. Three hours.

Prerequisite: Earth Science 325; Physics 132 or 232.

Geophysical methods and applications in solving geological problems; limitations and advantages of each method in geophysical prospecting and interpretation of data.

Earth Science 418G. Micropaleontology. Three hours.

Prerequisite: Earth Science 214 or 378.

Collection, preparation, and classification of microfossils and a study of their significance to stratigraphy and paleoecology.

Earth Science 420G. Optical Mineralogy. Three hours.

Prerequisites: Earth Science 261 and Physics 132 (or equivalent).

An introduction to the polarizing microscope and its application in the study of transparent minerals. Systematic study of major mineral groups based largely on optical properties.

Earth Science 421G. Petrographic Methods. Three hours.

Prerequisite: Earth Science 420G.

Description and classification of rocks from information obtained by the study of thin sections with polarized light.

Earth Science 425G. Petroleum Geology. Three hours.

Prerequisites: Earth Science 215 and 325.

History and development of the petroleum industry and procedures in understanding source, migration, and accumulation of oil and gas.

Mathematics

Mathematics 355G. Probability. Three hours.

Prerequisite: Mathematics 275.

Introduction to the theory of probability and its applications to statistical analysis. Bernoulli, binomial, hypergeometric, multinomial, uniform, Poisson, and normal distribution models; random variables; mathematical expectation; laws of large numbers; conditional probability and stochastic independence.

Mathematics 401G. Design and Analysis of Experiments. Four hours.

Prerequisite: Mathematics 121 or 152.

Introduction to the applications of statistics to the fields of biology, medicine, agriculture, education, psychology, physical education, and the social sciences. Analysis of enumeration data; hypothesis testing; confidence intervals; analysis of variance; correlation; regression.

Mathematics 410G. Real Variables. Three hours.

Prerequisite: Mathematics 310.

Algebra of sets; the real number system and its topological properties; sequences and convergence; local and global properties of continuous functions; limits of functions; theory of differentiation and integration.

Mathematics 420G. Mathematical Statistics. Three hours.

Prerequisite: Mathematics 355.

Statistical theory of hypothesis testing and estimation procedures; limit theorems; bivariate and multivariate distributions; order statistics; tests of goodness of fit; nonparametric comparison of locations; distribution theory.

Mathematics 453G. Statistical Methods. Three hours.

Prerequisite: Mathematics 353 or 401.

A second course in statistical methods for students in the behavioral, physical, biological, or agricultural sciences.

Mathematics 460G. Group Theory. Three hours.

Prerequisite: Mathematics 350.

Structure of groups, derived groups; nilpotence and solvability; extensions; products.

Mathematics 472G. Analytic Projective Geometry. Three hours.

Prerequisite: Mathematics 276.

Homographies in one direction; geometry of points on a line and invariants; homogeneous coordinates in two dimensions; geometry in the projective plane; non-Euclidean geometries.

Mathematics 475G. Selected Topics. One to six hours.

Prerequisite: Consent of instructor.

Topics are offered which meet the needs of students and which are not included in the general curriculum, such as: various statistical methods courses, topology, Boolean algebra, various application courses, Galois theory, and others.

Mathematics 481G. Mathematical Physics. (Also Physics 481G.) Three hours.

Prerequisite: Mathematics 363.

Series solutions to differential equations, partial differential equations, boundary value problems and applications of mathematics to physical problems.

Mathematics 485G. Vector Analysis. Three hours.

Co-requisite: Mathematics 276.

Vector algebra: vector functions of a single variable; scalar and vector fields; line integrals; generalizations and applications.

Mathematics 486G. Complex Variables. Three hours.

Prerequisite: Mathematics 310 or 485G or permission of instructor.

Algebra of complex variables; analytic functions; elementary functions; geometric interpretation; integrals; power series; residues and poles; conformal mappings.

Mathematics 490G. Theory of Numbers. Three hours.

Prerequisite: Mathematics 275.

Postulates; division algorithm; divisibility; prime numbers; linear and quadratic congruences.

Mathematics 491G. Classical Mechanics. (Also Physics 491G.) Five hours.

Prerequisites: Mathematics 276 and Physics 232.

Co-requisite: Mathematics 363.

Topics in vector analysis; statics and dynamics of a particle; energy and momentum; vibrations in one dimension; angular momentum; rigid-body statics and dynamics; relative motion; vector and scalar fields; introduction to the methods of Lagrange and Hamilton.

Mathematics 505. Advanced Topics. Three hours.

Prerequisite: Consent of instructor.

The object of this course is to provide an opportunity for advanced study in some area of mathematics.

Mathematics 510. Real Analysis. Three hours.

Prerequisite: Mathematics 410.

Lebesgue measure on the real line; integration and differentiation of real functions; classical Banach spaces; abstract spaces.

Mathematics 570. Research Problems. One to three hours.

Prerequisite: Consent of instructor.

The student is required to carry on individual research in mathematics. The problem to be investigated must be approved prior to registration.

Mathematics 575. Selected Topics. One to six hours.

Prerequisite: Consent of instructor.

Topics are offered which meet the needs of students and which are not included in the general curriculum, such as: advanced field theory; various statistical theory courses; ring theory.

Physics

DESCRIPTION OF COURSES

Physics 410G. Solid State Physics. Three hours.

Prerequisite: Physics 352.

A systematic investigation of phenomena such as conductivity, specific heat, magnetism, and semi-conduction in solids. Solution of Schroedinger's equation in crystal fields.

Physics 432G. Electricity and Magnetism II. Three hours.

Prerequisite: Physics 332.

Continuation of Physics 332. Solutions of Maxwell's equations, and relativistic electrodynamics.

Physics 452G. Nuclear Physics. Three hours.

Prerequisite: Physics 232; co-requisite: Math. 363.

An introduction to nuclear physics including binding energies, nuclear forces, transmutation of nuclei; natural and artificial radioactivity.

Physics 301G. Laboratory Techniques. Two hours.

Prerequisite: Physics 132 or 232.

This course will emphasize the construction and manipulation of special apparatus of interest to high school teachers of general science and physics.

Physics 350G. Radiation Physics. Four hours.

Prerequisite: Physics 132 or 232.

Atomic and nuclear structure; radioisotope techniques, sanitary science; waves and particles.

Physics 481G. Mathematical Physics. Three hours.

Prerequisite: Mathematics 363.

Series solutions to differential equations, partial differential equations, boundary value problems, and applications of mathematics to physical problems.

Physics 491G. Classical Mechanics. (Also Mathematics 491G. Five hours.

Prerequisite: Physics 232; co-requisite: Mathematics 363.

Topics in vector analysis; statics and dynamics of a particle; energy and momentum; vibrations in one dimension; angular momentum; rigid-body statics and dynamics; relative motion; vector and scalar fields; introduction to the methods of Lagrange and Hamilton.

Physics 492G. Advanced Mechanics. Three hours.

Prerequisite: Physics 491.

Continuation of Physics 491 with emphasis on gravitation, hydrodynamics, Lagrange and Hamiltonian formulations; rotation of a rigid body and small oscillations.

Physics 493G. Quantum Mechanics. Three hours.

Prerequisites: Physics 352 and 491.

Bohr-Wilson-Sommerfeld theory; Schroedinger's equations and atomic spectra.



SCHOOL OF SOCIAL SCIENCE

ROSCOE H. PLAYFORTH
Dean

ECONOMICS
GEOGRAPHY
HISTORY
POLITICAL SCIENCE
SOCIOLOGY

Social Sciences

DESCRIPTION OF COURSES

Social Science 500. Contemporary World Problems. Three hours.

Prerequisite: Twelve hours in social science.

A study of the historical, physical, cultural and political factors underlying current international issues. Particular attention is centered on the broad aspects of international law, the structure and operation of the United Nations Organization, and other contemporary international agencies and arrangements.

Social Science 510. Development of American Democracy. Three hours.

Prerequisite: Twelve hours in social science.

The ideas, institutions, customs and experiences from which the contemporary American way of life has developed. Attention is given to European and early American influences as well as to more recent and current developments. Comparisons and contrasts with alien ideologies and ways of living also stressed.

Economics

DESCRIPTION OF COURSES

Economics 440G. World Manufacturing. Three hours.
(See Geography 440G.)

Economics 441G. Public Finance. Three hours.
Prerequisite: Economics 201.
Public expenditures; public revenue; taxation; public credit; financial administration of government.

Economics 442G. Money and Banking. Three hours.
Prerequisite: Economics 201.
Credit and banking; nature of credit—personal credits, bank credit; bank reserves; bank notes; state banks; the national banking system; the federal reserve system—member banks, gold reserve; money market.

Economics 443G. Investments. Three hours.
Prerequisite: Economics 201.
Corporation bonds; bonds secured by land or real estate; civil obligations; interest; the influence of market upon price of stocks and bonds.

Economics 447G. Introduction to International Economics. Three hours.
Prerequisites: Economics 201 and 202.
The theory of international speculation and exchange; comparative costs and terms of trade; government control on foreign trade; national income and balance of payments; monetary reserves and exchange rates; foreign investment and economic development; economic implications of the present role of the United States in international affairs.

Economics 450G. Social Science Research and Statistics. Three hours.
(See Sociology 450G.)

Economics 455G. Economic Development and Growth. Three hours.
Prerequisites: Economics 201 and 202.
An analytical survey of the significant factors affecting economic development with particular reference to underdeveloped regions. Theories of growth and development; analytical concepts prominent in such theories; implications for central problems of developments.

Economics 583. Development of Economic Thought I. Three hours.
Prerequisites: Graduate standing and twelve hours in economics.
Economic contributions of the ancient Hebrews, Greeks, and Romans; the early scholastics; physiocrats; Adam Smith; Ricardo; John Stuart Mill.

Economics 584. Development of Economic Thought II. Three hours.
(A continuation of Economics 583.)
Economic contributions of the Socialists and recent economic thought.

Sociology

DESCRIPTION OF COURSES

Sociology 305G. Cultural Anthropology. Three hours.

Cultural horizons; patterns of man's cultural development; primitive hunting, domestication of animals, farming, trade, and transportation; art; social institutions; social organizations; government and law; religion and magic; knowledge and science; invention; diffusion, convergence as seen among American Indian tribes, African Negro tribes, Eskimo and others.

Sociology 354G. Social Psychology. Three hours.

Group behavior of lower animals; social functions of language; theories of human nature; dependable motives; emotional behavior; individual and class differences; racial differences; the individual in the group; culture and personality problems; social factors in abnormality; social factors in delinquency and crime.

Sociology 401G. Criminology. Three hours.

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

Sociology 402G. Juvenile Delinquency. Three hours.

The study of the extent, ecological distribution, and theories of delinquency in contemporary American society, including a critical examination of trends and methods of treatment of delinquents.

Sociology 403G. The Family. Three hours.

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

Sociology 408G. Community Organizations for Social Welfare. Three hours.

Methods and techniques of social welfare planning. Analysis of needs and resources, coordination of agencies, financing and developing private and public social welfare programs, and the structural relationships to state and national agencies.

Sociology 410G. Practicum in Social Work. Three hours.

Actual work experiences in the various agencies of Social Welfare Services under the supervision of a trained and certified professional worker. Comparable to student teaching in professional education.

Sociology 425G. The Community. Three hours.

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

Sociology 450G. Social Science Research and Statistics. Three hours.

A study of the practical applications of organizing, conducting, and interpreting social surveys and other forms of research in the social sciences; research design; factor analysis.

Sociology 500. Independent Research. One to four hours.

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

Sociology 510. Western Cultural Heritage. Three hours.

A combined lecture and research course in which sources of our American culture traits and traditions are traced from their apparent beginnings in many parts of the world, through their diffusions in time and space, to their integrations into our culture pattern. Stress is placed on contributions of the ancient formative cultures which provided bases of modern civilizations such as those of Egypt, Mesopotamia, Palestine, India, China, the American Indian and others. ✓

Sociology 550. Social Thought and Theory. Three hours.

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

Geography

Geography 328G. Africa. Three hours.

Prerequisite: Geography 100.

Study of Africa on the basis of its resources both natural and cultural; changing political conditions and affiliations of African countries; recognition of, and reasons for, the growing importance of this continent in world affairs.

Geography 383G. Asia. Three hours.

Prerequisite: Geography 100.

A study of the man-land relations which characterize this large and diverse region. An evaluation of a continent in the midst of change in terms of geographic potentials.

Geography 390G. Climatology. Three hours.

Introduction to the physical elements of weather and climate; classifications of types and their distribution with particular reference to the effects of climate on the earth's physical and cultural landscapes.

Geography 400G. Soviet Union. Three hours.

Prerequisite: Geography 100.

Systematic and regional study of the Soviet Union. Special attention is given to the resource base, with appraisal of the agricultural and industrial strength of the country; consideration of the effects of governmental policy on economic growth.

Geography 401G. Workshop in Resource Use and Conservation. Three hours.

Analysis of regional development emphasizing the total integrated economy of region studied. Distribution and reserve depletion of resources. Field trips made under the leadership of conservation specialists; seminars and lecture presented by well-known authorities.

Geography 405G. Conservation of Natural Resources. Three hours.

A study of natural resources basic to human welfare with special emphasis on lands, water, minerals, forests, and wildlife and their interrelationships.

Geography 410G. Urban Geography. Three hours.

Prerequisites: Six hours geography or permission of the instructor.

Origin and development of cities, urban ecology, central place theory, functional classifications, and theoretical explanation of city structure followed by a detailed consideration of site, situation, and land utilization of some selected cities designed to meet the needs of geography students, geographers, and urban and regional planners. Scheduled second semester.

Geography 415G. Seminar. Geography Field Tour. Three hours.

Prerequisite: Six hours in geography.

Geographic reconnaissance of selected regions. Directed reading before departure; briefing sessions on the campus; lecture and observation in the field; interpretation and analysis for a written report.

Geography 440G. World Manufacturing. Three hours.

Prerequisite: Six hours in geography or approved studies.

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

Geography 500. Political Geography. Three hours.

Permission of the instructor.

Recognition of content and concepts of political geography; basic factors in evaluating strength of a nation; application of these understandings to world political patterns.

Geography 501. Special Problems. Three hours.

Permission of the instructor.

Supervised comprehensive investigation of selected problems in the field of geography.

Geography 523. Southeast Asia. Three hours.

A study of the Southeast Asia region, between India-Pakistan to the west, China to the north, and Australia to the south. Intensive study of the politico-geographic, socio-economic, and resource potential problems of its countries.

Geography 529. The Mediterranean. Three hours.

A course designed to emphasize the Mediterranean Sea as a focal point of Western culture. The graduate student is afforded the opportunity for intensive study of any or all of the related areas of three continents: Southern Europe, Northern Africa, and Southwestern Asia.

Geography 540. Resources and Industries. Three hours.

Study of the resource base, nature, structure and distribution of industry, and its function in a national economy.

MOREHEAD STATE UNIVERSITY
Morehead, Kentucky

Palmer L. Hall
Director of Graduate Study
School of Education

History

For the Master of Arts degree:

Students majoring in history for the Master of Arts degree may emphasize either American history, English history, non-western history; or a combination of these.

Requirements for Unconditional Admission to Graduate Study in History:

1. General admission to graduate study.
2. Completion of an undergraduate major or minor in history.
3. A minimum standing of 3.0 on all undergraduate history courses above the freshman level.
4. General proficiency in the social sciences.

Requirements for the Degree:

1. Completion of a minimum of eighteen hours of approved course work in history. At least twelve hours of this credit must be earned in courses open only to graduate students.
2. Completion of an approved thesis.
3. Completion of a minimum of thirty semester hours of graduate work. (This includes the credit allowance for the thesis.)
4. A reading knowledge of a modern foreign language.

DESCRIPTION OF COURSES

History 440G. Colonial America. Three hours.

Prerequisite: Six hours of history or permission of the instructor.

A study in the founding of the nation from the age of discovery to the outbreak of the Revolutionary War. Attention is given to the political, economic, and social forces within the colonial system and the contribution of experimentation in the New World, culminating in the American character and democracy.

History 441G. American Revolution and Federal Period. Three hours.

Prerequisite: Six hours of history or permission of the instructor.

The student's attention is directed to the causes of the Revolution, the military, economic and social history of the Revolution, the transition from the Confederation Period to the Federal Period, and the administrations of Washington, Adams, Jefferson, and Madison.

History 442G. The United States: Middle Period. Three hours.

Prerequisite: Six hours of history or permission of the instructor.

An analysis of national political and social movements beginning with the opening of the west following our second war with Great Britain. Special emphasis is placed on the political leaders of these turbulent years as the United States sought compromise but found civil war.

History 443G. The United States, 1860-1900. Three hours.

Prerequisite: Six hours of history or permission of the instructor.

Emphasis is placed upon the reconstruction era of American history and the rise of big business with its resultant epoch of America as a world power. Scheduled second semester.

History 444G. The American Constitution. Three hours.

(See Political Science 444G.)

History 445G. The United States Since 1900. Three hours.

Prerequisite: Six hours of history or permission of the instructor.

A history of the American people in the twentieth century from the impulses of Progressivism to the Great Society. Of vital interest are the evolution in civil liberties, the challenges of the radical left and right, the rise of labor, and America's emerging world leadership.

History 448G. United States Foreign Relations. Three hours.

Prerequisite: Six hours of history or permission of the instructor.

A survey designed to acquaint the student with the foreign relations of the United States, from the French Alliance of 1778 to America's role in the United Nations.

History 449G. Early American Social and Intellectual History. Three hours.

Prerequisites: Six hours history or permission of the instructor.

The beginning of American thought in Puritanism; our European social and cultural heritage and its adaptation by the frontier; the emergence of education, slavery and art; ideas behind the adoption of the Declaration of Independence and the Federal Constitution; westward expansion and the anti-slavery crusade in the years 1830-1865. Scheduled first semester.

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

Prerequisite: Six hours of history or permission of the instructor.

The history of a century of conflict, from World War I to man's attempt to legislate world peace. Special emphasis is placed upon the twentieth-century isms — fascism, nazism, and communism.

History 456G. American Urban History. Three hours.

Prerequisites: Six hours history or permission of the instructor.

The development of the Colonial city, urban rivalry, city politics and city services, technology and culture, city planning and urban sprawl, the pull of the city, boss rule and reform, urban housing and education, melting pot and boiling pot, urban crises and responses.

History 451G. Modern American Social and Intellectual History. Three hours.

Prerequisites: Six hours history or permission of the instructor.

A study of the emergence of modern American society with emphasis upon Social Darwinism and the anti-religious crusade. The revolt against formalism led by Dewey and the emergence of modern education; the significance of pragmatism; the evolution of civil liberty with its resulting disrupting effects; the new protest movements and their significance. Scheduled second semester.

History 460G. Africa to 1900. Three hours.

Prerequisite: Six hours of history or permission of the instructor.

An examination of four basic developments in the history of the African continent. The early Sudan Kingdom and the Eastern City-States; the first European contacts; the rise and fall of the slave trade; and the establishment of European colonies.

History 461G. Africa Since 1900. Three hours.

Prerequisite: Six hours of history or permission of the instructor.

The French, German, and Italian influences; the advance of nationalism; and the problems of independence.

History 476G. American History. Directed Readings. One to three hours.

Prerequisite: Open only to history majors or minors or permission of the instructor.

After selecting his field of interest, the student will be assigned topics for independent study.

History 477G. European History: Directed Readings. One to three hours.

Prerequisite: Open only to history majors or minors or permission of the instructor.

After selecting his field of interest, the student will be assigned topics for independent study.

History 478G. Non-Western History. Directed Readings. One to three hours.

Prerequisite: Open only to history majors and minors or by permission of the instructor.

After selecting his field of interest, the student will be assigned topics for independent study.

History 510. American Biography. Three hours.

The characteristics and services rendered by men and women who have played leading roles in the history of the nation. Extensive reading with oral and written reports. Designed both for teachers of the social studies and for general education.

History 530. European Historiography. Three hours.

Prerequisite: Open only to history majors or minors or by permission of the instructor.

The development of history as a written subject; the works and philosophies of outstanding European historians from Herodotus to the contemporary scene.

History 532. The French Revolution. Three hours.

A study in detail of the causes, course, and results of the French Revolutionary period.

History 535. European Intellectual History. Three hours.

Beginning with the transition from the Medieval to the Modern period, the student is introduced to the major schools of thought which have influenced and shaped today's world.

History 538. The Negro in the Twentieth Century. Three credit hours.

A research study of the emerging role of the Negro in American life. Combines tools from sociology, economics, history, and political science in analyzing the role of the Negro in this century.

History 540. American Historiography. Three hours.

Prerequisite: Open only to history majors and minors or by permission of the instructor.

An analysis of the works of prominent American historians from the colonial period to the present. Emphasis is placed upon the ideas, range, and art of history, affording a basic understanding and comparative knowledge of historical interpretations.

History 541. The Slavery Controversy. Three hours.

A study of the controversy growing out of differences concerning slavery within voluntary societies; the rise of antislavery political parties and political issues involving the slavery question.

History 542. Seminar: American Colonial Period. Three hours.

History 543. Seminar: The United States: Formative Years. Three hours.

History 544. Seminar: Nineteenth Century United States. Three hours.

History 545. Seminar: Twentieth Century United States. Three hours.

History 550. Seminar: Latin-America. Three hours.

History 552. Seminar: Nineteenth Century Europe. Three hours.

History 560. Seminar: The World in the Twentieth Century. Three hours.

History 570. Seminar: Africa. Three hours.

History 599. Thesis. One to six hours.

Required of all candidates for the A. M. in history.

Political Science

DESCRIPTION OF COURSES

Political Science 351G. Recent Political Theory. Three hours.

Prerequisite: Political Science 241.

The theory of the national state; absolutism and the theory of divine right; the concept of sovereignty; right of resist and the theory of natural rights and natural law; rise of radicalism; rights of the citizen and the growth of liberalism; fascism and communism; democracy in an industrial society.

Political Science 400G. Pressure Groups and Politics. Three hours.

Prerequisite: Political Science 241 or 242.

An analysis of interest groups and their techniques of political propaganda. The group studies include—labor, industry, farmers, and others in American society.

Political Science 444G. The American Constitution. Three hours.

(Also History 444G.)

Prerequisite: Political Science 241.

Principles of constitutional interpretation; the federal system; separation of powers and judicial review; principles and precedents underlying current interpretations in such fields as civil rights, government and the economy; social and welfare legislation.

Political Science 446G. Personnel Administration. Three hours.

A study of manpower utilization and development with emphasis on the concept of the merit system in public administration and on employee responsibilities and values as well as the operational considerations in such systems.

Political Science 448G. Public Administration. Three hours.

Prerequisites: Political Science 241 and 242.

Administrative organizations; state control of local administration; personnel problems; financial administration; administrative law; public relations; standards for measuring administrative performance.

Political Science 450G. International Relations. Three hours.

Prerequisites: History 142 and 232; Political Science 333, or nine hours of political science.

Foundations of international relations; the United States' foreign policy; geographic position; economic and strategic factors; instruments of policy; regional and world politics; problems of European peace; problems of peace in Asia; the United States and the world powers; background of World War II; the United Nations Organization and the problem of lasting peace.

Political Science 500. Seminar: State and Local Government. Three hours.

Prerequisites: Political Science 241, 242, 300 and 360G.

Intensive and detailed study of state and local government including inter-state and local cooperation and coordination in programs of mutual concern such as regional planning, compacts, etc.

Political Science 520. Seminar: International Relations. Three hours.

Prerequisite: Political Science 450.

Training in methodology and use of the tools for individual research in international relations. Emphasis on Europe, South-East Asia, Latin America, and North-Central Africa.

