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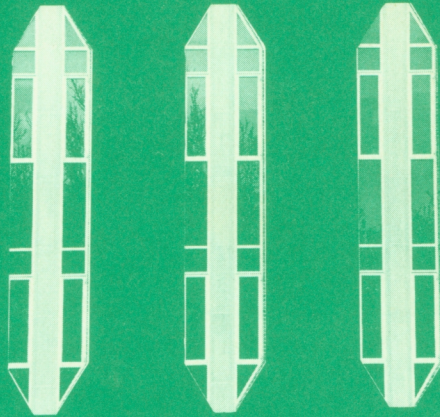
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A. M. Tyson



Graduate Catalog
Marshall University
1967-68

This Bulletin contains information of general value to college graduates, other prospective students, and students enrolled in Marshall University. Complete information as to entrance requirements, fees and expenses, living accommodations, requirements for graduation, and a brief statement of courses of study are given.

The University reserves, for itself and its departments, the right to withdraw or change the announcements made in this Bulletin.

For further information address the Dean of the Graduate School, Marshall University, Huntington, W. Va. 25701

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MARSHALL UNIVERSITY BULLETIN



CATALOG of the GRADUATE SCHOOL 1967-1968

HUNTINGTON, WEST VIRGINIA

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WEST VIRGINIA BOARD OF EDUCATION
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MRS. SARA VAN HORN UHL, *Member*, Vienna
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President

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JOSEPH S. SOTO, A.B., B.S., M.A. . . . *Vice President of Business and Finance*

ROBERT BRUCE HAYES, A.B., Ed.M., Ed.D. . . . *Dean, Teachers College*

JOHN FRANK BARTLETT, A.B., M.A., Ph.D. *Dean,
College of Arts and Sciences*

AMBROSE EVERETT McCASKEY, JR., B.S.C.E., M.S.C.E., Ph.D. . . . *Dean,
College of Applied Science*

JOHN R. WARREN, A.B., M.A., Ph.D. *Dean, Graduate School*

LILLIAN HELMS BUSKIRK, A.B., M.A. *Associate Dean of Students*

JOHN EDWARD SHAY, JR., B.A., M.A., Ph.D. *Dean of Students*

JAMES ROBERT VANDER LIND, B.A., M.A. . . *Associate Dean of Students*

LUTHER E. BLEDSOE, A.B., M.A. *Registrar*

PAUL H. COLLINS, A.B., M.A. *Director of Admissions
and Adult Education*

HAROLD WILLIAM APEL, A.B., M.S. in Library Science *Librarian*

JAMES A. MARTIN, A.B. *Director of Information
and Publications*

ROBERT P. ALEXANDER, A.B., M.A. *Director of Placement*

HARRY M. SANDS, B.B.A. *Director of Development
and Alumni Affairs*

Correspondence regarding various phases of the University program should be directed as follows:

Admission

Director of Admissions

Adult Education

Director of Adult Education

Alumni Affairs

Director of Development and Alumni Affairs

Business Matters, Expenses

Vice President of Business and Finance

Employment, Placement

Director of Placement

Graduate Study

Dean of the Graduate School

Student Housing

Housing Director

Scholarships and Loans

Financial Aid Officer

Transcripts, Records

Office of the Registrar

Veterans' Affairs

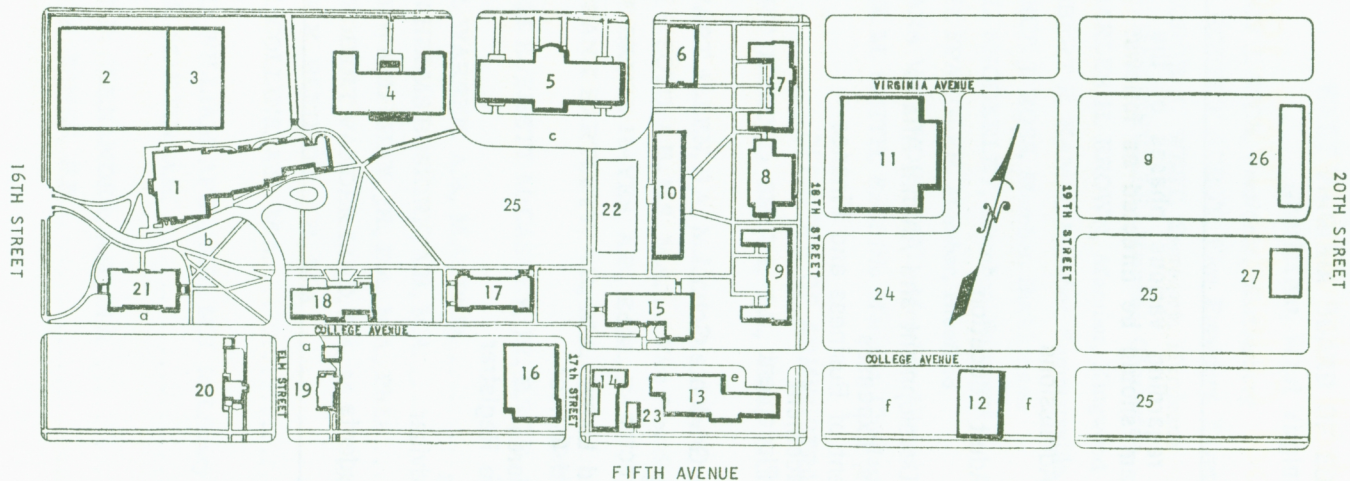
Veterans' Adviser

Student Affairs

Dean of Students

MARSHALL UNIVERSITY

THIRD AVENUE



FIFTH AVENUE

Key

- 1 Old Main Building
Academic Center:
- 2 Music Complex
- 3 Classroom Building
- 4 James E. Morrow Library
- 5 Science Building
- 6 Music Building (old)
- 7 Laidley Hall (women)

- 8 Dining Hall
- 9 Hodges Hall (men)
- 10 Prichard Hall (women)
- 11 Gullickson Hall (Physical
Education Building)
- 12 Campus Storage
- 13 South Hall (men)
- 14 Laboratory School Annex

- 15 Jenkins Laboratory School
- 16 Campus Christian Center
- 17 Women's Physical Education
Building
- 18 Shawkey Student Union
- 19 Everett Hall (Home Management
House)
- 20 Home Management House (formerly
President's Home)

- 21 Northcott Hall
- 22 West Hall (women)
- 23 Honors House
- 24 Athletic Field
- 25 Intramural Fields
- 26 Maintenance (Buildings
and Grounds)
- 27 Engineering

Parking Areas: a, b, c, d, e, f, g

Marshall University

Graduate School Calendar 1967-1968

FIRST SEMESTER

| | |
|--|---|
| September 5-9 | Orientation and Registration |
| September 5, 8:00 a.m. | Faculty and Staff Meetings |
| September 6, 8:00 a.m. | Transfer Students Report for Orientation |
| September 7, 8:00 a.m.-3:30 p.m. | Registration for New Students |
| September 8, 8:00 a.m.-3:30 p.m. | Registration for Returning Students— Full- and Part-Time |
| September 8, 6:30-8:30 p.m. | Registration for Evening Students |
| September 9, 8:30-11:30 a.m. | Registration Continues |
| September 11, 8:00 a.m. | Classes Begin |
| September 16, 8:30 a.m.-11:30 a.m. | Last Day of Late Registration and Changing Schedules |
| October 11 | WP or WF Period Begins |
| October 31 | Mid-Semester Progress Reports Due |
| November 4 | Homecoming Day |
| November 13-22 | Counseling for Second Semester |
| November 17-18 | Parent's Weekend |
| November 22, 12:00 noon—Wednesday | Thanksgiving Recess |
| November 27, 8:00 a.m.—Monday | Classwork Begins |
| December 4 | Automatic WF Period Begins |
| December 16, Close of Classes—Saturday | Christmas Recess |
| January 3, 8:00 a.m.—Wednesday | Classwork Begins |
| January 5 | Final Draft of Theses Due in Offices of Advisers |
| January 9-20 | Oral Examination for Master's Degree |
| January 13 | Written Examination for Master's Degree |
| January 15-20 | Semester Examination Period |
| January 19 | Approved Theses Due in Office of Graduate School |
| January 20 | Semester Ends |
| January 23, 4:00 p.m.—Tuesday | Semester Grades Due in Registrar's Office |

SECOND SEMESTER

| | |
|--|--|
| January 25-27 | Orientation and Registration |
| January 25, 8:00 a.m. | New Students Report for Orientation |
| January 26, 8:00 a.m.-3:30 p.m. | Registration |
| January 26, 6:30-8:30 p.m. | Registration for Evening Students |
| January 27, 8:30-11:30 a.m. | Registration Continues |
| January 29, 8:00 a.m. | Classes Begin |
| February 3, 8:30-11:30 a.m. | Last Day of Late Registration and Changing Schedules |
| February 29 | WP or WF Period Begins |
| March 26 | Mid-Semester Progress Reports Due |
| April 10, Close of Classes—Wednesday | Easter Vacation |
| April 16, 8:00 a.m.—Tuesday | Classwork Begins |
| April 17-27, inclusive | Advance Counseling for Summer Session |
| April 24 | Automatic WF Period Begins |
| April 26 | Final Draft of Theses Due in Offices of Advisers |
| April 29-May 1-9 | Oral Examinations for the Master's Degree |
| May 1-10, inclusive | Advance Counseling for Fall Semester |
| May 4 | Written Examinations for the Master's Degree |
| May 13, 9:00 a.m.—Monday | Graduating Students' Grades Due in Registrar's Office |
| May 17 | Approved Theses Due in Office of Graduate School |
| May 20-25 | Semester Examination Period |
| May 25 | Alumni Day |
| May 26 | Baccalaureate and Commencement |
| May 28, 4:00 p.m.—Tuesday | Semester Grades Due in Registrar's Office |

SUMMER SESSION 1968

FIRST TERM

June 10, 8:00 a.m.-3:30 p.m.—MondayRegistration
June 11, 7:30 a.m.Classes Begin
June 12, 3:00 p.m.—WednesdayLast Day of Registration
July 4No Classes—Observe Independence Day
July 5Final Draft of Theses Due in Offices of Advisers
July 6Written Examinations for the Master's Degree
July 8-13Oral Examinations for the Master's Degree
July 12Term Ends
July 12Approved Theses Due in Office of Graduate School
July 16, 4:00 p.m.—TuesdayGrades Due in Registrar's Office

SECOND TERM

July 15, 8:00 a.m.-3:30 p.m.—MondayRegistration
July 16, 7:30 a.m.Classes Begin
July 17, 3:00 p.m.—WednesdayLast Day of Registration
August 10Final Draft of Theses Due in Offices of Advisers
August 10Written Examinations for the Master's Degree
August 12-16Oral Examinations for the Master's Degree
August 16Term Ends
August 16Approved Theses Due in Office of Graduate School
August 19, 4:00 p.m.—MondayGrades Due in Registrar's Office

THE GRADUATE COUNCIL

Term Expires

| | |
|--|------------|
| John R. Warren, Ph.D., <i>Dean of the Graduate School</i> | Chairman |
| Edwin A. Cubby, Ph.D., <i>Chairman, Department of Social Studies</i> | 1969 |
| Neil L. Gibbins, Ph.D., <i>Associate Professor of Education</i> | 1967 |
| Norman Bayard Green, Ph.D., <i>Professor of Biological Sciences</i> | 1968 |
| Herschel Heath, Ph.D., <i>Chairman, Department of History</i> | 1968 |
| C. Lawrence Kingsbury, Ed.D., <i>Chairman, Department of Music</i> | 1969 |
| Marvin O. Mitchell, Ph.D., <i>Professor of English</i> | 1969 |
| Woodrow Wilson Morris, Ph.D., <i>Chairman, Department of Education</i> .. | 1968 |
| Paul Dekker Stewart, Ph.D., <i>Chairman, Department of Political Science</i> | 1967 |
| George Ward, II, Ph.D., <i>Chairman, Department of Psychology</i> | 1967 |
| J. Stewart Allen, Ph.D., <i>Vice President of Academic Affairs</i> | Ex-officio |

Faculty

*Date following name indicates first appointment
to a staff position at Marshall University.*

SARA E. ANDERSON, *Professor of Business Administration*, 1966
Ed.D. 1964, Indiana University

HOMER S. ARHELGER, *Associate Professor of Education*, 1962
Ed.D. 1962, Indiana University

STANLEY WEST ASH, *Associate Professor of Biological Science*, 1956
M.A. 1954, Marshall University; graduate study, The University of
Pennsylvania

PAUL A. BALSHAW, *Assistant Professor of Music*, 1966
A.M.D. 1963, Eastman School of Music

JOHN FRANK BARTLETT, *Dean of the College of Arts and Sciences and
Professor of Chemistry*, 1932
Ph.D. 1932, West Virginia University; postdoctorate study, University of
Zurich, University of Edinburgh, and Technische Hochschule in Munich

EDDIE COVINGTON BASS, *Assistant Professor of Music*, 1964
Ph.D. 1964, University of North Carolina

THOMAS BAUSERMAN, *Professor of Mathematics*, 1955
Ph.D. 1961, University of Pittsburgh

DONALD W. BEISTEL, *Assistant Professor of Chemistry*, 1966
Ph.D. 1963, University of Delaware

GRACE BENNETT, *Professor of Home Economics*, 1965
Ph.D. 1957, Purdue University

ALLEN BLUMBERG, *Associate Professor of Education*, 1958
Ed.D. 1964, Syracuse University

ROBERT LEE VERN BRITTON, *Professor of Geography*, 1930
M.S. 1930, University of Chicago; graduate study, University of Chicago,
The Ohio State University

JACK RICHARD BROWN, *Professor of English*, 1948
Ph.D. 1937, Northwestern University

MAHLON CARL BROWN, *Associate Professor of Social Studies*, 1955
D.S.S. 1959, Syracuse University

STEPHEN D. BUELL, *Professor of Speech*, 1955
Ph.D. 1962, The Ohio State University

HILBERT HAYNES CAMPBELL, *Assistant Professor of English*, 1961
Ph.D. 1966, University of Kentucky

- MARGARET COLINA CAMPBELL, *Assistant Professor of Education*, 1956
M.A. 1956, George Peabody College; graduate study, George Peabody College
- ARTHUR SIDNER CARPENTER, *Professor of Art*, 1951
Ed.D. 1958, Pennsylvania State University
- MANOJ RANJAN CHAKRABARTY, *Associate Professor of Chemistry*, 1963
Ph.D. 1962, University of Toronto
- SOO BOCK CHOI, *Assistant Professor of Political Science*, 1963
Ph.D. 1963, University of Maryland
- SAM EDWARD CLAGG, *Professor of Geography*, 1948
Ed.D. 1955, University of Kentucky
- PAUL H. COLLINS, *Associate Professor of Education and Director of Admissions and Adult Education*, 1949
M.A. 1943, West Virginia University; graduate study, Harvard University, University of Virginia
- ERIC VANE CORE, *Associate Professor of Education*, 1957
M.A. 1937, West Virginia University; graduate study, University of Virginia
- JOHN WALKER CREIGHTON, *Associate Professor of Music*, 1945
M.A. 1942, Northwestern University; graduate study, Saint Louis University, Juilliard School of Music, Ohio University, Northwestern University
- EDWIN ALBERT CUBBY, *Professor of Social Studies*, 1949
Ph.D. 1962, Syracuse University
- WILLIAM ROGER DAVIDSON, *Associate Professor of Music*, 1955
M.Mus. 1947, University of Illinois; graduate study, University of Illinois, Columbia University
- ROBERT JOE DOLLGENER, *Assistant Professor of Physical Education*, 1963
P.E.D. 1965, Indiana University.
- JAMES EDWARD DOUGLASS, *Associate Professor of Chemistry*, 1965
Ph.D. 1959, University of Texas
- JOANNE C. DRESCHER, *Associate Professor of Music*, 1950
M.Mus. 1948, Indiana University; graduate study, Florida State University, University of Denver.
- RALPH MILTON EDEBURN, *Professor of Zoology*, 1945
Ph.D. 1938, Cornell University
- IRENE CLARK EVANS, *Associate Professor of Business Administration*, 1939
M.A. 1940, Columbia University; graduate study, University of Chicago, University of Kentucky
- WALTER C. FELTY, *Associate Professor of Social Studies and Director of Audio-Visual Aids*, 1950
M.A. 1950, Marshall University; graduate study, Indiana University, Pennsylvania State University

- DOROTHY A. FISHER, *Professor of Zoology*, 1946
Ph.D. 1942, Cornell University; postdoctorate study, Cornell University, University of North Carolina, University of Minnesota, University of Michigan
- FREDERICK A. FITCH, *Professor of Physical Education*, 1930
M.A. 1932, New York University; graduate study, New York University, Columbia University, Florida State University
- RUTH COFFMAN GARRETT, *Associate Professor of Speech*, 1953
M.A. 1946, Ohio University; graduate study, Northwestern University, Ohio University
- ALTA I. GAYNOR, *Professor of Physical Education*, 1962
Ed.D. 1953, Oregon State University
- NEIL LOUIS GIBBINS, *Associate Professor of Education*, 1963
Ph.D. 1960, The Ohio State University
- MARY ALICE GOINS, *Associate Professor of Mathematics*, 1946
M.A. 1933, University of Michigan; graduate study, Purdue University, University of Kentucky, University of Chicago, University of Michigan
- ALOYSIA MARY GORMAN, *Associate Professor of Psychology*, 1964
Ph.D. 1959, University of Denver
- REX CAMERON GRAY, *Associate Professor of Education*, 1948
M.A. 1941, West Virginia University; graduate study, University of Minnesota, University of Virginia, George Washington University
- NORMAN BAYARD GREEN, *Professor of Zoology*, 1938
Ph.D. 1952, The Ohio State University
- SAMUEL TILDEN HABEL, *Professor of Sociology*, 1964
Ph.D. 1945, The University of Edinburgh
- EDWARD STEPHENSON HANRAHAN, *Associate Professor of Chemistry*, 1963
Ph.D. 1959, West Virginia University
- DENNIS HUNTER HARDMAN, *Professor of Mathematics*, 1946
Ph.D. 1963, University of Pittsburgh
- CHARLES PRICE HARPER, *Professor of Political Science*, 1946
Ph.D. 1937, The Johns Hopkins University
- ROBERT BRUCE HAYES, *Dean of the Teachers College and Professor of Education*, 1965
Ed.D. 1960, University of Kansas
- HERSCHEL HEATH, *Professor of History*, 1947
Ph.D. 1933, Clark University
- CLARKE FREAS HESS, *Professor of Education*, 1951
Ed.D. 1958, University of Pennsylvania

- EUGENE QUINTER HOAK, *Professor of Speech*, 1960
Ph.D. 1954, The Ohio State University
- JOHN HOLLAND HOBACK, *Professor of Chemistry*, 1945
Ph.D. 1947, West Virginia University
- BEN WALTER HOPE, *Professor of Speech*, 1947
Ph.D. 1960, The Ohio State University
- LOUISE PRICE HOY, *Assistant Professor of Classical Languages*, 1963
Ph.D. 1952, Bryn Mawr College
- HELEN SCOTT HUNTER, *Assistant Professor of Education*, 1957
M.A. 1956, Marshall University; graduate study, University of Michigan
- LEO VICTOR IMPERI, *Associate Professor of Music*, 1952
M.A. 1951, Columbia University; graduate study, Columbia University, University of Denver
- JAMES EDWARD IRVIN, *Professor of Education*, 1959
Ph.D. 1958, The Ohio State University
- RAYMOND ELLSWORTH JANSSEN, *Professor of Geology*, 1942
Ph.D. 1939, University of Chicago
- LOUIS BROWN JENNINGS, *Associate Professor of Bible and Religion*, 1948
Ph.D. 1964, University of Chicago
- LAVELLE THOMPSON JONES, *Associate Professor of Music*, 1947
M.A. 1942, George Peabody College; graduate study, George Peabody College, University of Denver, Cincinnati Conservatory of Music, Temple University, University of Maine
- JAMES LAMAR JORDAN, SR., *Associate Professor of Education*, 1964
Ed.D. 1964, University of Tennessee
- MICHAEL B. JOSEPHS, *Professor of Physical Education*, 1953
Ph.D. 1950, University of Pittsburgh
- HABEEB ALBERT KHAYAT, *Assistant Professor of Political Science*, 1966
Ph.D. 1962, American University
- CHARLES LAWRENCE KINGSBURY, *Professor of Music*, 1950
Ed.D. 1945, Indiana University
- ALFRED P. LANEGGER, *Associate Professor of Music*, 1947
M.M. 1947, Syracuse University; diploma, State Academy of Music, Munich
- ARTHUR R. LEPLEY, *Associate Professor of Chemistry*, 1965
Ph.D. 1958, University of Chicago
- JOSEPH MELVILLE LICHTENSTEIN, *Associate Professor of Education*, 1946
M.A. 1940, Fordham University; graduate study, Columbia University, Rutgers University, University of Cincinnati, New York University

- JULIUS LIEBERMAN, *Professor of Modern Languages (German)*, 1946
Ph.D. 1943, University of Cincinnati
- KENNETH KARL LOEMKER, *Professor of Psychology*, 1930
Ph.D. 1941, University of Chicago
- JOHN CLIFFORD MANGAN, *Assistant Professor of Education*, 1964
Ph.D. 1964, The Ohio State University
- DONALD CLAYTON MARTIN, *Professor of Physics*, 1943
Ph.D. 1936, Cornell University; postdoctorate study, Northeastern University, University of New Mexico
- JOHN LEWIS MARTIN, *Professor of Modern Languages (Spanish)*, 1935
Ph.D. 1940, University of Pittsburgh
- LOUISE McDONOUGH, *Professor of Physical Education*, 1929
M.A. 1929, Columbia University; graduate study, Columbia University, State University of Iowa
- CARL BARTH MILLER, *Associate Professor of Business Administration*, 1946
M.A. 1942, Northwestern University; graduate study, University of Kentucky, University of Colorado, Boston University
- HOWARD LEONARD MILLS, *Professor of Botany*, 1951
Ph.D. 1951, State University of Iowa
- MARVIN O'NEILL MITCHELL, *Professor of English*, 1952
Ph.D. 1953, University of North Carolina
- PHILIP EUGENE MODLIN, *Assistant Professor of Biological Science*, 1957
M.A. 1957, Marshall University; graduate study, West Virginia University
- CHARLES HILL MOFFAT, *Professor of History*, 1946
Ph.D. 1946, Vanderbilt University
- WOODROW WILSON MORRIS, *Professor of Education*, 1950
Ph.D. 1954, The Ohio State University
- REVA BELLE NEELY, *Associate Professor of Home Economics*, 1946
M.Ed. 1946, Colorado Agricultural and Mechanical College; graduate study, The Ohio State University, Michigan State University
- ALMA NEASE NOBLE, *Associate Professor of Modern Languages (French)*, 1941
Ph.D. 1938, The Ohio State University
- ELAINE ADAMS NOVAK, *Associate Professor of Speech*, 1956
Ph.D. 1963, The Ohio State University
- LAWRENCE HOWARD NUZUM, *Professor of Education*, 1947
Ed.D. 1959, University of Tennessee
- THOMAS S. O'CONNELL, *Associate Professor of Music*, 1948
M.M. 1947, University of Michigan

- CLAYTON R. PAGE, *Associate Professor of Speech*, 1946
M.A. 1939, Pennsylvania State University; M.A. 1940, Baylor University;
graduate study, University of Southern California, State University of
Iowa
- THOMAS A. PARNELL, *Assistant Professor of Physics*, 1966
Ph.D. 1965, University of North Carolina
- VIRGINIA NORVAL PARRISH, *Associate Professor of Modern Languages
(French)*, 1947
M.A. 1940, University of Kentucky; graduate study, University of
Kentucky
- WALTER H. PERL, *Professor of Modern Languages (German)*, 1948
Ph.D. 1936, University of Zurich
- SIMON DANIEL PERRY, *Associate Professor of Political Science*, 1962
Ph.D. 1960, Michigan State University
- GERALD ROE PHILLIPS, *Associate Professor of Social Studies*, 1948
M.A. 1947, University of Minnesota; graduate study, University of
Minnesota
- WILLIAM PAGE PITT, *Professor of Journalism*, 1926
M.S.J. 1930, Columbia University
- JOHN CULPEPPER PLOTT, *Assistant Professor of Philosophy*, 1965
Ph.D. 1965, Banaras Hindu University
- BENJAMIN FRANCIS PLYBON, *Assistant Professor of Mathematics*, 1959
M.S. 1959, Carnegie Institute of Technology; graduate study, The Ohio
State University
- EDWARD LEWIS PLYMALE, *Professor of Botany*, 1946
Ph.D. 1942, State University of Iowa
- ISHWAR SARAN PRADIP, *Assistant Professor of Botany*, 1966
Ph.D. 1966, Louisiana State University
- ALLEN OTIS RANSON, *Professor of Speech*, 1931
M.S. 1935, University of Wisconsin
- WALTER EDWIN REGULA, *Assistant Professor of Education*, 1963
Ph.D. 1965, The Ohio State University
- FREDERICK G. REYNOLDS, *Assistant Professor of Chemistry*, 1965
Ph.D. 1958, University of Cincinnati
- JAMES TULL RICHARDSON, *Professor of Sociology*, 1949
Ph.D. 1943, University of Missouri
- CHARLES CASS RITCHIE, JR., *Associate Professor of Education*, 1959
Ed.D. 1963, West Virginia University
- JOSEPH L. ROBERTS, *Assistant Professor of Chemistry*, 1966
Ph.D. 1964, University of Cincinnati

- OLIVER DELL ROSS, *Assistant Professor of History*, 1964
Ph.D. 1953, The Ohio State University
- CHARLES SHELBY RUNYAN, *Professor of Education*, 1953
Ed.D. 1953, University of Missouri
- JANE BOEDEKER SHEPHERD, *Associate Professor of Music*, 1958
M.M. 1942, Cincinnati Conservatory; graduate study, Juilliard School of Music
- JON PHILLIP SHOEMAKER, *Assistant Professor of Zoology*, 1964
Ph.D. 1964, Auburn University
- O. NORMAN SIMPKINS, *Professor of Sociology*, 1948
Ph.D. 1953, University of North Carolina
- HOWARD A. SLAATTE, *Professor of Philosophy*, 1965
Ph.D. 1956, Drew University
- THEODORE L. SOISTMANN JR., *Assistant Professor of Education*, 1966
Ed.D. 1966, University of Tennessee
- PAUL DEKKER STEWART, *Professor of Political Science*, 1948
Ph.D. 1948, Duke University
- ADELLA ELIZABETH STROUSS, *Associate Professor of Home Economics*, 1943
M.S. 1941, Cornell University; graduate study, Iowa State College, The Ohio State University, University of Tennessee, Cornell University
- ANNA VIRGINIA LOCKE THEIS, *Associate Professor of Library Science and Librarian*, 1953
M.A. 1948, Western Reserve University; M.S. in Library Science 1955, Western Reserve University
- LAYTON OSCAR THOMPSON, *Assistant Professor of Mathematics*, 1955
M.S. 1955, West Virginia University
- A. MERVIN TYSON, *Professor of English*, 1959
Ph.D. 1952, University of Pennsylvania
- GEORGE WARD, II, *Professor of Psychology*, 1962
Ph.D. 1961, The Ohio State University
- HAROLD EUGENE WARD, *Professor of Biological Science*, 1950
Ph.D. 1964, The Ohio State University
- JOHN RUSH WARREN, *Dean of the Graduate School and Professor of Botany*, 1964
Ph.D. 1950, The Ohio State University
- ROBERT POOLE WILKINS, *Professor of History*, 1964
Ph.D. 1954, West Virginia University
- HAROLD LEE WILLEY, *Professor of Education*, 1946
Ed.D. 1958, University of Tennessee

THOMAS DAVID DUNCAN WILLIAMS, *Associate Professor of English*, 1966

M.A. 1956, Christ Church College, Oxford University

ELIZABETH BAKER WOLF, *Professor of Psychology*, 1960

Ph.D. 1946, Western Reserve University

ROBERT DELL WOLFF, *Associate Professor of Music*, 1963

Ed.D. 1960, Columbia University

JOHN HENRY WOTIZ, *Professor of Chemistry*, 1962

Ph.D. 1948, The Ohio State University

General Information

MARSHALL UNIVERSITY

Marshall University, supported by the State of West Virginia, encourages individual growth by offering programs and instruction in the attainment of scholarship, acquisition of skills, and personality development.

The University provides students with opportunities to understand and to make contributions to the culture in which they live; to develop and maintain physical health; to participate in democratic processes; to learn worthwhile spiritual, social and economic values; to develop intellectual curiosity and the desire to continue personal and professional growth; and to share in a varied cultural program.

Professional, technical, or industrial career studies are available through the various departments of the University.

Marshall also recognizes an obligation to the state and community by offering evening courses, extension classes, lectures, musical programs, conferences, forums, and other campus and field activities.

HISTORY

Marshall University was founded as Marshall Academy in 1837 by a group of Cabell County citizens. According to tradition, they met first at the home of John Laidley, who chose the name "Marshall" in honor of his close friend, Chief Justice John Marshall, who had died two years earlier.

A subscription school, operated by Isaac Peck at Mount Hebron, two miles down the Ohio River from the Town of Guyandotte, became the nucleus of the new institution. The school had met in a log structure, also used as a church, which stood on a knoll, now the site of part of "Old Main."

A year later the Academy was incorporated by the Virginia Assembly with Mr. Laidley as president of the Board of Trustees. The Trustees purchased one and one-half acres of land from James and Lucy Holderby who stipulated that it was to be used "for purposes of an academy and no other." They also erected a two-story brick building to replace the log structure, enclosed the land and sank a well.

For more than a decade the Academy was successful in attracting students and preparing them for college entrance and for teaching positions in the county schools, in spite of inadequate financial support.

In 1850 the Academy and its financial obligations were accepted by the Conference of the Methodist Episcopal Church South. Educational progress continued under church auspices and, in 1858, the original act of incorporation was amended to raise the institution to college level. The name was changed to Marshall College, a faculty of five was elected, and a full college program was offered.

However, financial difficulties, doubtless aggravated by the sectional difference of the time, became acute and, near the beginning of the Civil War, the institution was sold for debt.

During the war years the college premises were occupied by a family some members of which conducted a private school to satisfy the clause in the deed which limited use of the property to school purposes. Tradition holds that the building was also used for a time as a hospital for Union soldiers.

In 1867, four years after the birth of the new state of West Virginia, the Legislature passed an act creating a normal school ". . . to be called West Virginia State Normal School . . . to be established at Marshall College in the County of Cabell."

College preparatory work was offered in addition to teacher training and, by 1886, there was also a full "academical" course of two years. Through the later years of the 19th century and the first two decades of the 20th, the college offered, in addition to secondary work, two years of liberal arts work and two years of teacher training.

In 1920 the West Virginia State Board of Education approved the granting of a bachelor's degree in education. Teachers College conferred degrees upon four candidates in June 1921.

The College of Arts and Sciences was established in 1923 and awarded the first liberal arts degrees in 1925. The degree of Bachelor of Science was authorized in 1938, Bachelor of Engineering Science in 1940, and Bachelor of Science in Chemistry in 1951. The Bachelor of Business Administration was approved in 1954. In 1945 two-year programs leading to the degrees of Associate in Arts and Associate in Science were approved in ten fields.

The College of Applied Science was established in 1960 and granted its first degrees in 1961.

The Graduate School, authorized in May 1948, grew out of a program of graduate work in six departments which had been established in 1938. Courses leading to the degree of Master of Arts or Master of Science are now offered in twenty-six major fields with ten additional departments offering work in a minor field.

Marshall was granted University status by an act of the 55th West Virginia Legislature in March 1961. Two-year branch colleges at Williamson and Logan started in 1963.

ACCREDITATION

Marshall University is accredited by the North Central Association of Colleges and Secondary Schools and by the National Council for Accreditation of Teacher Education. Academic credits earned at Marshall University are fully standardized, and are accepted by all other colleges and universities.

The University is approved for attendance of nonimmigrant students under the Federal Immigration and Nationality Act, and is approved by the American Association of University Women. Marshall holds membership in the American Council on Education, the Association of American Colleges, and the American Association of Colleges for Teacher Education.

LOCATION

The main campus of Marshall University is located in Huntington, W. Va. Huntington is located on the Ohio River close to the boundary of Kentucky, Ohio, and West Virginia, and it is served by rail, air, and highway transportation. A second campus, University Heights, is located four miles east of the main campus.

DIVISIONS

The University functions through five divisions: Teachers College, College of Arts and Sciences, College of Applied Science, Graduate School, and Division of Adult Education.

Academic Information

FACULTY-STUDENT ADVISORY PROGRAM

Each student admitted to Marshall University is assigned to a faculty adviser. The adviser renders academic guidance by assisting in the preparation of semester class schedules and guiding the student in meeting degree requirements or other matters bearing on academic advancement.

SEMESTER HOURS

The semester hours is the basis of college credit within the institution. A semester hour is the credit received for taking a subject one hour per week for one semester of approximately 18 weeks.

Laboratory courses require two or three hours per week for 18 weeks for each semester hour of credit.

GRADES AND QUALITY POINTS

The following system of grades and quality points is used within the school:

A—Work of outstanding character; excellent.

B—Work of good quality; commendable but not outstanding.

C—Work of acceptable but not distinguished quality. Not more than six credit hours of C may be applied toward an advanced degree.

F—Unsatisfactory; no credit.

FIW—Failure because of irregular withdrawal. No quality points.
(See regulations on withdrawal.)

W—Withdrawn during the first calendar month after the date for the first class meeting in the semester, or during the first 10 days after the date for the first class meeting in the summer session. No quality points. (See regulations on withdrawal.)

WP, WF—Withdrawn later than the first calendar month after the date for the first class meeting in the semester, or later than the first ten days after the date for the first class meeting in the summer session. The grades WP (withdrawn passing) and WF (withdrawn failing) show the status of the student's work up to the official withdrawal date (not the last day of class attendance) unless otherwise directed by the academic dean and so noted on the drop slip. The official withdrawal date is the date on the withdrawal slip issued by the Registrar's Office. (See regulations on withdrawal.) No quality points.

I—Incomplete, given to students who miss some of the last exercises of the class work because of illness or some other equally good reason beyond the control of the student.

When the work missed is done satisfactorily, the final grade may be any one of the passing grades. If the deficiency represented by I is not made up within the next semester or summer in residence and if the make-up work is unsatisfactory, the grade becomes an F. No quality points for an I grade.

Grades of A, B, C, F, FIW and WF in all semester hours registered are to count toward quality point averages.

An average of B (3.0) in all graduate work attempted is required for a master's degree.

It is the student's responsibility to keep informed on his quality point standing and his degree and/or certificate requirements. This information can be obtained at any time from the student's adviser or the dean of the college in which the student is registered.

REGULATIONS GOVERNING WITHDRAWAL FROM COURSES OR FROM THE UNIVERSITY

Official Withdrawal from Courses or from the University:

A student who wants to withdraw from one or more courses must apply to the dean of his college for permission. The dean informs the registrar who in turn informs the instructors concerned.

A student wanting to withdraw from the University must apply to the dean of his college for permission. If permission is granted the student must secure the approval of the appropriate administrative offices as listed on the student withdrawal form. When applying for withdrawal, whether in person or by mail, the student must turn in his unused meal book tickets, his activity card and his student identification card. The semester's validation on the I.D. card is voided and the card returned to the student for use in future registration.

In all cases of withdrawal from one or more courses or from the University the instructors report grades for the student as follows:

1. If permission for withdrawal is given during the first calendar month after the first class of the semester or within 10 days after the first class meeting of a summer term, the instructor reports a grade of W followed by the date of official withdrawal; thus W 2-14-52.
2. If permission for withdrawal is given later than one calendar month within a semester or 10 days within a summer term and through the 12th week of the semester or the 4th week of a summer term the W is accompanied by a grade P for passing, F for failing, to show the status of the student's work up to the time of official withdrawal; thus WP 4-15-52 or WF 4-15-52.

3. Students who withdraw from one or more courses or from the University after the 12th week of a semester or the 4th week of a summer term automatically receive a grade of WF unless the academic dean declares the withdrawal to be for reasons beyond the control of the student, in which case the W is followed by the grade P or F being made at the time of official withdrawal.

Irregular Withdrawal from Courses or from the University:

Students who drop one or more courses without permission and who do not follow regulations provided in the preceding paragraphs receive at the end of the semester or summer term a grade of FIW, failure because of irregular withdrawal, in each course involved and are automatically placed on academic probation the following semester or summer term in attendance. A student withdrawing irregularly will not be entitled to refund of tuition and registration fees.

ABSENCE FROM EXAMINATIONS

Students are required to take all regular examinations. If a student attends a course throughout the semester and is absent from the final examination without permission, the instructor counts the examination as zero and reports the final grade as FIW. If, in the opinion of the instructor, the absence was for a satisfactory reason, the grade I is reported, and the student may, upon application, take the examination at a later date. (See "Incomplete" under Grades and Quality Points.)

ABSENCES FROM CLASSES

1. A student is expected to be present at all class sessions.
2. Unavoidable absences such as those due to health, death in the immediate family, or similar reasons, should be reported to the instructor concerned by the student. In such case, and whenever possible, the instructor will provide an opportunity for the student to make up work missed.
3. There is a distinction between willful absences and institutional absences. Institutional absences include those which result from participation in an activity sponsored by the University such as athletics, music, debate, and other activities approved by the academic deans. Students who are absent for such reasons are expected to make up their work but should receive no undue penalty.
4. When a student misses classes for reasons other than those stated above, he does so at the risk of jeopardizing his academic standing.
5. Any student who has been absent from a class for two or more weeks before the final examination is denied the privilege of taking the final examination in that class except when it can be shown that the absences were beyond the student's control.

ASSIGNMENTS AND CREDITS

1. **SEMESTER LOAD.** Twelve semester hours constitute a semester schedule.

2. **CHANGES OF SCHEDULE,** i.e., adding courses, dropping courses, changing class hours or days, or other changes of any kind are not permitted after the student has registered for the semester except by permission of the dean of the Graduate School.

3. **FULL TIME STUDENT DEFINED.** A student carrying at least 12 semester hours.

4. **NUMBERING OF COURSES.** Courses numbered 500-599 are equivalent to certain 400 series courses, but are open only to graduate students.

Courses numbered 600-699 are open to graduate students only.

AUDIT AND NONCREDIT COURSES

With the consent of the instructor and the adviser, lecture and recitation courses may be audited without credit. Enrollment for audit is limited to the regular registration period for the semester or term. All students who want to audit classes must enroll and pay fees in the same manner and at the same tuition rate as students enrolling for credit. Faculty members wanting to audit courses must secure approval of their dean and the instructor of the course or courses desired and must enroll in the regular manner for such courses. The auditor is not required to participate in the course nor does he receive academic credit.

TRANSCRIPTS

Every student is entitled to one free official transcript of his record. Each additional copy costs \$1 in cash or money order. Two or three weeks may be required to process an application for a transcript.

A student who defaults in the payment of any University dues or loans forfeits his right to claim a transcript.

An application for a transcript of credit must furnish the date of last attendance at Marshall University, student identification number, and a married woman should give both her maiden and married names.

All requests for transcripts must be sent directly to the registrar.

Transcripts are prepared in the order received.

ACADEMIC PUBLICATIONS OF THE UNIVERSITY

The University issues six bulletins annually: the general catalog, the graduate catalog, the admission bulletin, the schedule of courses for each semester, and the summer session bulletin. Other special publications are issued from time to time.

Fees and Expenses

All fees are due and payable at the Cashier's Office on the day of registration.

The cashier accepts cash, postal money orders, or approved personal checks written for the exact amount of the obligations. All checks must be made payable to Marshall University. A student's registration may be canceled when payment is made by a check which is dishonored by the bank.

A handling fee of \$5.00 may be collected for each check returned unpaid by the bank upon which it is drawn unless the student can obtain an admission of error from the bank.

If the check returned by the bank was in payment of tuition and registration fees, the Office of Business and Finance may declare the fees unpaid and registration cancelled. The return of the check unpaid constitutes late registration, and the applicable late registration fee shall be levied. In such case the student may be reinstated upon redemption of the unpaid check, payment of the \$5.00 handling charge and payment of the applicable late fee not to exceed \$15.00.

All fees and expenses are subject to change without prior notice.

FEES

REGULAR SEMESTER, FULL-TIME STUDENTS (12 OR MORE HOURS)

| | Resident of West Virginia | Non- resident ¹ |
|-------------------------------------|------------------------------|-------------------------------|
| Tuition Fee | \$ 25.00 | \$175.00 |
| Registration Fee | 50.00 | 125.00 |
| Student Activity-Services Fee | 40.00 ² | 40.00 ² |
| Total Registration Fee | \$115.00 | \$340.00 |

REGULAR SEMESTER, PART-TIME STUDENTS (LESS THAN 12 HOURS)

West Virginia Resident

| HOURS | TUITION | REGIS- TRATION | STUDENT ACTIVITY- SERVICES ³ | TOTAL |
|-------|---------|-------------------|--|---------|
| 1 | \$ 5.00 | \$ 4.00 | \$ 1.00 | \$10.00 |
| 2 | 8.00 | 8.00 | 2.00 | 18.00 |
| 3 | 10.00 | 12.00 | 3.00 | 25.00 |

¹NONRESIDENT FEES shall apply to those students who are legally domiciled in states other than West Virginia. The official domicile of a minor is that of his or her parents or legal guardian.

²THE STUDENT ACTIVITY-SERVICES FEES are allocated as follows: Assemblies and Forums \$1.50; Athletics \$7.50; Artists Series \$3.00; Chief Justice \$2.25; University Theater \$.50; Parthenon \$2.00; Student Government \$.50; Student Union \$4.00; University Band \$.25; Radio Station WMUL \$.25; Debate \$.15; Identification Card \$.25; Health Service \$1.75; and Laboratory and Course Fees.

A special activity card for the use of the spouse of a full-time student costs \$20.00 and covers: Athletics (\$12.50), Assemblies and Forums (\$1.50), Artists Series (\$.50), and I.D. card (\$1.00).

³I.D. card \$.25; Balance Laboratory and Course Fees. A student activity card is available to part-time students for \$24.00.

FEEs AND EXPENSES

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| HOURS | TUITION | REGIS- TRATION | STUDENT ACTIVITY- SERVICES ¹ | TOTAL |
|-------|---------|-------------------|--|---------|
| 4 | \$13.00 | \$16.00 | \$ 4.00 | \$33.00 |
| 5 | 16.00 | 20.00 | 5.00 | 41.00 |
| 6 | 19.00 | 24.00 | 6.00 | 49.00 |
| 7 | 22.00 | 28.00 | 7.00 | 57.00 |
| 8 | 25.00 | 32.00 | 8.00 | 65.00 |
| 9 | 25.00 | 36.00 | 9.00 | 70.00 |
| 10 | 25.00 | 40.00 | 10.00 | 75.00 |
| 11 | 25.00 | 44.00 | 11.00 | 80.00 |

Nonresident

| HOURS | TUITION | REGIS- TRATION | STUDENT ACTIVITY- SERVICES ¹ | OUT OF STATE | TOTAL |
|-------|---------|-------------------|--|-----------------|----------|
| 1 | \$ 5.00 | \$ 10.00 | \$ 1.00 | \$ 10.00 | \$ 26.00 |
| 2 | 8.00 | 20.00 | 2.00 | 22.00 | 52.00 |
| 3 | 10.00 | 30.00 | 3.00 | 35.00 | 78.00 |
| 4 | 13.00 | 40.00 | 4.00 | 47.00 | 104.00 |
| 5 | 16.00 | 50.00 | 5.00 | 59.00 | 130.00 |
| 6 | 19.00 | 60.00 | 6.00 | 71.00 | 156.00 |
| 7 | 22.00 | 70.00 | 7.00 | 83.00 | 182.00 |
| 8 | 25.00 | 80.00 | 8.00 | 95.00 | 208.00 |
| 9 | 25.00 | 90.00 | 9.00 | 110.00 | 234.00 |
| 10 | 25.00 | 100.00 | 10.00 | 125.00 | 260.00 |
| 11 | 25.00 | 110.00 | 11.00 | 140.00 | 286.00 |

SUMMER TERM (5 WEEKS) FULL-TIME STUDENTS (4 OR MORE HOURS)

West Virginia Resident

| HOURS | TUITION | REGIS- TRATION | STUDENT ACTIVITY- SERVICES ² | TOTAL |
|-------|---------|-------------------|--|---------|
| 4 | \$15.00 | \$16.00 | \$10.00 | \$41.00 |
| 5 | 15.00 | 20.00 | 10.00 | 45.00 |
| 6 | 15.00 | 24.00 | 10.00 | 49.00 |
| 7 | 15.00 | 28.00 | 10.00 | 53.00 |
| 8 | 15.00 | 32.00 | 10.00 | 57.00 |

Nonresident

| HOURS | TUITION | REGIS- TRATION | STUDENT ACTIVITY- SERVICES ² | OUT OF STATE | TOTAL |
|-------|---------|-------------------|--|-----------------|----------|
| 4 | \$15.00 | \$40.00 | \$10.00 | \$43.00 | \$108.00 |
| 5 | 15.00 | 50.00 | 10.00 | 43.00 | 118.00 |
| 6 | 15.00 | 60.00 | 10.00 | 43.00 | 128.00 |
| 7 | 15.00 | 70.00 | 10.00 | 43.00 | 138.00 |
| 8 | 15.00 | 80.00 | 10.00 | 43.00 | 148.00 |

¹I.D. Fee \$.25; balance to Laboratory and Course Fees. A student activity card is available to part-time students for \$24.00.

²Summer Assemblies and Forums \$.50; Student Union \$.75; Parthenon \$.50; Health Services \$.50; I.D. Card \$.25; and Laboratory and Course Fees.

SUMMER TERM (5 WEEKS) PART-TIME STUDENTS (LESS THAN 4 HOURS)

West Virginia Resident

| HOURS | TUITION | REGIS- TRATION | STUDENT ACTIVITY- SERVICES ¹ | TOTAL |
|-------|---------|-------------------|--|---------|
| 1 | \$ 5.00 | \$ 4.00 | \$ 1.00 | \$10.00 |
| 2 | 8.00 | 8.00 | 2.00 | 18.00 |
| 3 | 10.00 | 12.00 | 3.00 | 25.00 |

Nonresident

| HOURS | TUITION | REGIS- TRATION | STUDENT ACTIVITY- SERVICES ¹ | OUT OF STATE | TOTAL |
|-------|---------|-------------------|--|-----------------|---------|
| 1 | \$ 5.00 | \$10.00 | \$ 1.00 | \$10.00 | \$26.00 |
| 2 | 8.00 | 20.00 | 2.00 | 22.00 | 52.00 |
| 3 | 10.00 | 30.00 | 3.00 | 35.00 | 78.00 |

ESTIMATE OF EXPENSES

Estimated semester expenses of a full-time student at Marshall University are outlined in the following table. These estimates are made of both minimum and average expenses and cover the usual charges for board, room, tuition, and fees which are paid to the University.

| | Minimum | Average |
|---|-------------------|-------------------|
| Tuition | \$ 25.00 | \$ 25.00 |
| Registration Fee | 50.00 | 50.00 |
| Student Activity-Services Fee | 40.00 | 40.00 |
| Board | 234.00 | 234.00 |
| Room | 99.00 | 120.00 |
| Books, gym outfit | 30.00 | 35.00 |
| Supplies, etc. | 10.00 | 15.00 |
| | <hr/> | <hr/> |
| | \$488.00 plus tax | \$519.00 plus tax |
| Out-of-state students pay an addi- tional fee of | \$225.00 | \$225.00 |

BOARD

All students living in the dormitories are required to purchase meal books and take their meals in the University dining halls. Meals are available to students rooming off the campus at the same rate as resident students.

Board costs \$234.00 each semester plus \$7.02 consumers sales tax. This cost is based on prevailing prices and subject to change in the event of continued price increases in food cost. Board may be paid in full upon entrance or in two equal installments each semester. The first installment is due and payable on the day of registration; the second installment is due on the first day of the second half of the semester.

¹I.D. card \$.25; Laboratory and Course Fees.

Board per five-week summer term is \$65.00 plus \$1.95 consumers sales tax.

Meal books are not valid during vacation periods. If it is necessary for the student to remain on the campus during such periods, he can obtain meals at regular cafeteria prices if the cafeteria remains open.

Effective date for refunds and reductions is from the first day of regular registration for the semester or summer term.

NOTE: No deduction or refund is made in board charges unless the student is absent from the campus for *more* than a calendar week because of personal illness or a University-approved trip. No deduction or refund is made in room charges for absences.

SPECIAL FEES

Late Registration Fee (Nonrefundable)

| | |
|--|---------|
| Charge for first day after close of regular registration | \$10.00 |
| Second day | 12.00 |
| Third day | 13.00 |
| Fourth day | 14.00 |
| Fifth day | 15.00 |

Graduation Fee

| | |
|-----------------------|-------|
| Graduate Degree | 10.00 |
|-----------------------|-------|

Cap and Gown Fee

| | |
|-----------------------|------|
| Graduate Degree | 7.20 |
|-----------------------|------|

Graduation fees are due and payable on notification from the dean.

Fees for auditing courses

a. Full-time staff members may audit courses without charge. All full-time staff members wanting to audit courses must secure the approval of their dean and the instructor of the course or courses they want to audit. It will, also, be necessary for them to enroll in the regular manner for such courses.

b. Non-staff members who audit classes must enroll and pay fees in the same manner and at the same tuition rate as students enrolling for credit.

Fees for full-time members of faculties of accredited colleges in West Virginia

Tuition and registration fees are waived for full-time members of faculties of any accredited college in West Virginia desiring to register at Marshall University for graduate work.

However, the student activity-services fee *is not waived* and must be paid.

Chemistry deposits for Lab breakage

Most chemistry courses require a \$10.00 deposit per course for breakage.

ROOM RENT
(Per Semester of 18 Weeks)
(Rate Effective September 1, 1967)

SOUTH HALL

All rooms per student\$162.00
 Plus \$4.86 Consumers sales tax

HODGES HALL AND LAIDLEY HALL

All rooms per student\$126.00
 Plus \$3.78 Consumers sales tax

PRICHARD HALL AND WEST HALL

All rooms per student\$126.00
 Plus \$3.78 Consumers sales tax
 (Rate presumes three students assigned per room)

(Per Summer Term of 5 Weeks)

ALL RESIDENCE HALLS

All rooms per student\$ 40.00
 Plus \$1.20 Consumers sales tax

(Summer Workshops)

Three weeks to 6 weeksEntire six-weeks rate
 More than 6 days but less than 21 days80% of six-weeks rate
 Less than 7 days\$2.00 per day

(Additional charge of \$1.00 per day for linens).

SEE STUDENT HOUSING for room deposit fee and reservations.

REFUND OF FEES

I. Withdrawal from the University**TUITION AND REGISTRATION FEES**

Students who withdraw regularly from the University may have a refund on Tuition and Registration Fees in accordance with the following schedule.

Main Campus

| | |
|---|------|
| During the first and second weeks | 90% |
| During the third and fourth weeks | 70% |
| During the fifth and sixth weeks | 50% |
| Beginning with the seventh week | None |

Laboratory, activity and course fees are to be refunded in the same percentages as outlined above.

All refunds are to be estimated from the first day of regular registration of a given semester or term.

Refunds on room and board fees are not calculated on the percentage basis outlined above. See Item III, Board, and Item IV, Room Rent, listed below for explanations of refunds for these fees.

Refunds under \$1.00 will not be made except on special request. Refund checks normally are mailed within 15 days.

II. Withdrawals due to administrative action

When it becomes necessary to cancel a class by administrative and/or faculty action, a student is granted a full refund for the class cancelled unless he registers in another course of like value in terms of semester hours. This action does not apply to withdrawals due to disciplinary action.

III. Board

The unused portion of meal books upon withdrawal must be returned to Office of Business and Finance in order for a refund to be made. Refunds will be pro-rated on the basis of a full week of 20 meals and not on the number of meal tickets unused.

IV. Room Rent

Applications for housing will be sent to prospective students outside Cabell County along with the application for admission. The application will be returned without a deposit to the Housing Director, who will assign the student to a specific residence hall and notify the student that the first semester's rent must be paid in full within ten days of this notification. If the student cancels his reservation prior to July 1, (January 10), his payment will be refunded minus a charge of \$25.00. If the student cancels his reservation after July 1, (January 10), \$50.00 will be deducted from his initial payment. Students currently residing in a residence hall must indicate their rooming preference for the following semester not later than March 15 (November 15). The next semester's rent must be paid by July 1 (January 10) or the reservation will not be honored. The entire payment will be refunded if the student is denied admission, declared ineligible to return, or for other reasons entirely beyond the control of the student.

V. Special fee refunds

The I.D. card fee of \$.25 is not refundable. The student activity fee is not refunded unless the activity card is returned to the Office of Business and Finance.

VI. Late fees are nonrefundable

Regulations Governing Classification of Students for the Purpose of Assessing Tuition Fees

Upon the recommendation of the West Virginia Council of State College and University Presidents and the West Virginia Association of Registrars and Admissions Officers, the Board upon motion duly made, seconded and carried, approved the following clarification and revision of its action of June 11, 1964, setting forth Regulations Governing Classification of Students for the Purpose of Assessing Tuition Fees, effective August 1, 1966:

The following definitions, general policies, and regulations will apply to nonresident students:

The term "residence" as used in these regulations refers to the actual physical location of a person and is to be used solely for the purpose of assessing tuition fees.

The residence status of a student is determined at the time of his first registration at a state college or university, and his residence is not changed by his attendance as a student at such college or university. This policy shall apply to both graduate and undergraduate students regardless of any scholarships, student assistantships, loans or graduate assistantships that may be granted to any student.

A nonresident student is hereby defined to be a student of less than twenty-one years of age, living away from his family and whose family resides in another state, or whose family has not resided in West Virginia for the twelve consecutive months immediately preceding the date of first registration; or a student of twenty-one years of age or over, who resides out of the state or who has not been a resident of the state twelve months subsequent to his twenty-first birthday or for the twelve months immediately preceding the date of first registration.

The residence of one who is under twenty-one years of age is that of the father. Upon death of the father, the residence of the minor is that of the mother. Upon divorce of the parents, the residence of the minor is determined by the residence of the person to whom custody is granted by the court. In the absence of any grant of custody, the residence of the father continues to control. Upon the death of both parents, the residence of the minor continues to be that of the last surviving parent until he becomes twenty-one.

Individuals who have come from without the State of West Virginia and who register in a state college prior to having resided in the state for a period of twelve months shall be classified as nonresident students; and such nonresident student classification shall be presumed to be correct as long as the residence of such individuals in the state is during their attendance at educational institutions, regardless of whether such individuals have become qualified voters, have registered motor vehicles and paid personal property taxes thereon, have obtained West Virginia drivers' licenses, or have otherwise attempted to establish residence within the state.

A student under twenty-one years of age shall not be classified as a resident student until his parents have resided in this state for at least twelve consecutive months immediately preceding the date of current registration.

A West Virginia student whose parents or guardian move out of the state of West Virginia after his original enrollment, will automatically become liable for the nonresident fee at the next registration period after twelve months following removal of parents or guardian.

Individuals of twenty-one years of age or less whose families have not resided in West Virginia for the twelve months immediately preceding the date of first registration shall be classified as nonresident students regardless of whether such individuals have become the legal wards of residents of West Virginia or have been adopted by residents of West Virginia while such individuals are attending educational institutions in West Virginia or within a year prior to such an attendance or under circumstances indicating that such guardianship or adoption was for the purpose of obtaining status as a resident student.

The residence of a minor student assigned to a guardian shall be considered affected by such assignment, beginning twelve months after the appointment of the guardian; the provisions stated above with respect to parents' residence shall then apply to the guardian's residence.

An alien who has taken out his citizenship papers and has resided in West Virginia for twelve months immediately preceding the date of his enrollment in a state college shall be regarded as eligible for registration as a West Virginia student.

Persons who are moved into the state as a result of military orders from the government, or the minor children of such persons, are entitled to admission as in-state students beginning twelve months after establishing residence in the state.

Marriage, alone, to a West Virginia resident will not change the status of a nonresident student in a West Virginia State College. Employment of his spouse does not change his status.

An individual on active Federal military service may be classified as a resident for the purpose of payment of fees providing that he resided in West Virginia for a period of twelve months continuously prior to entrance into military service, that he entered the military service from West Virginia, and that he has at no time while in military service claimed, or established, residence in any other State of the United States or its possessions. Sworn statements attesting to these conditions may be required. The wife of such individual as described above, and children under the age of twenty-one shall also be classified as residents of the State of West Virginia for fee purposes.

The student must have the question of his residence passed upon prior to registration and payment of fees. The responsibility of registration under proper residence is placed upon the student. If there is a possible question as to residence, the matter should be brought to the attention of the Admissions Officer and passed upon at least two weeks prior to registration and payment of fees. Any student found to have made a false or misleading statement concerning his residence shall be subject to dismissal from the college.

Division of Adult Education

EVENING SCHOOL

Marshall University helps meet community needs through the Evening School. Here, credit and noncredit courses may be taken for personal, business, cultural, domestic, industrial and recreational improvement or as a refresher of other interests.

Evening classes are provided for any group not interested in college credit but which wishes to meet for 1 to 12 or more sessions to discuss some topic of vital interest to them in their daily work. A class of 12 or more students is required to organize a special interest group.

The Evening School serves those who need or want further education for credit or noncredit. It is possible to earn college credit which will serve the needs of those working toward college degrees in the various fields of study.

For those who want college credit there are two lines of work:

1. Undergraduate work for high school graduates who wish to improve their employment status through education or those who want to extend their knowledge in some direction or wish to satisfy their intellectual curiosity by following a particular line of studies.

2. Graduate work for those who hold a baccalaureate degree and who wish to work for a master's degree. Work done in evening classes carries residence credit. By taking advantage of the evening program, the time on campus needed to secure a master's degree may be shortened.

EXTENSION CLASSES

Extension classes are offered for teachers and others who cannot be in residence. Credit or noncredit courses in several fields are offered on a semester basis.

Not more than 12 semester hours are acceptable toward a master's degree. Not more than six semester hours may be earned during a semester nor more than nine semester hours within one year. (This applies to public school teachers under contract in the state).

The tuition fee for resident students is \$7.50 per semester hour, plus a registration fee of \$4.00 per semester hour, and a \$2.50 course fee, all payable in advance.

The tuition fee for nonresident students is \$15.00 per semester hour, plus a registration fee of \$10.00 per semester hour, and a \$2.50 course fee, all payable in advance.

The quality of instruction in extension is on the same high level as that of regularly taught classes on the campus since all staff members doing extension are full-time faculty members.

Admission requirements for those who desire credit in extension are set forth below:

College graduates beginning work for the master's degree in extension courses must do the following before credit can be earned to count toward a degree in Marshall University or be transferred to another graduate school.

1. File application for admission to the Graduate School on a form furnished by the Graduate School Office.
2. Furnish two official transcripts of all previous college work. Students holding the bachelor's degree from Marshall University must have one copy of a transcript sent from the Registrar's Office to the Graduate School Office.
3. Receive a letter of admission from the dean of the Graduate School.

Extension students who are college graduates and who do not wish to work toward a degree must sign a form forfeiting graduate credit.

Students who fail to comply with these regulations within a reasonable time may be withdrawn from courses by administrative action of the dean of the Graduate School.

COMMUNITY SERVICES

As a state-supported institution Marshall University recognizes its obligation to provide to the people of West Virginia certain community services in addition to the regular academic campus program. Some of the services available upon request are:

SPEAKERS AND PROGRAMS—The Information Service Office is glad to receive requests for speakers to appear before school, civic and community organizations, scientific societies, service clubs.

A limited number of musical and dramatic programs are available for presentation during the year.

SCHOOL SURVEYS AND CONSULTANT SERVICES—The University provides consultant services and assists in surveys in the field of education. Counties wanting assistance with such problems as transportation, building programs, curriculum development and other problems of similar nature should request such assistance. The director of adult education should be informed of the needs and desires of a particular organization or county before the beginning of the semester whenever possible.

CONFERENCES AND WORKSHOPS—In so far as possible facilities of the University will be made available to industrial, educational and other groups for conducting special conferences and workshops.

Student Life

HOUSING

Residence Halls

There are three residence halls for women: Laidley Hall, Prichard Hall, and West Hall.

Men are housed in Hodges Hall, South Hall, Prichard Hotel, and Rowley Hall.

Students making reservations for the fall term must remain in the dormitory residence for an entire academic year except for the reason of graduation or circumstances beyond their control.

Room Applications, Cancellations and Refunds

Applications for housing will be sent to prospective students outside Cabell County along with the application for admission. The application will be returned without a deposit to the Housing Director, who will assign the student to a specific residence hall and notify the student that the first semester's rent must be paid in full within ten days of this notification. If the student cancels his reservation prior to July 1, (January 10), \$50.00 will be deducted from his initial payment. Students currently residing in a residence hall must indicate their rooming preference for the following semester no later than March 15 (November 15). The next semester's rent must be paid by July 1 (January 10) or the reservation will not be honored. The entire payment will be refunded if the student is denied admission, declared ineligible to return, or for other reasons entirely beyond the control of the student.

ROOM RENT: No refund of any portion of the room rent is made except for reasons entirely beyond the control of the student. In such cases the \$50.00 deposit plus the prorated rent based upon the total semester rate is deducted from the refund.

Rooms

Rooms are furnished with study desks, chairs, single beds, chests of drawers and study lamps. Items such as blankets, pillows, bedspread, dresser scarf, towels, toilet articles, and draperies are provided by the student.

All residence halls are closed during the Thanksgiving, Christmas and Easter vacation periods.

Room rents for each hall are found under the title "Fees."

Breakage

Students are not required to pay a breakage fee. They are expected to exercise reasonable care in the use and custody of University property in the residence halls. The cost of repair (to be determined by the superintendent of buildings and grounds) for any unnecessary or careless breakage or damage to a room or furniture is assessed to the responsible student or students.

Rooms in Private Homes

Rooms in private homes are listed in the offices of the Housing Director. All rental transactions are negotiated directly between the student and the householder following a personal inspection and approval of the residence by the student and his parents. Men and women may not rent rooms in the same rooming house.

Housing for Married Students

The University has 48 housing units, located at University Heights, 4 miles from the campus, which are rented to married students and their families at rents of \$45.00 per month for a one-room apartment and \$65.00 per month for a two-room apartment. Applications may be procured from the Housing Director. A security deposit of \$25.00 is charged for family dwellings.

Board for Students Living in Residence Halls

All students living in residence halls are required to purchase their meals through the University dining halls. Cost of meal books for each semester is \$234.00 plus tax. The University dining halls serve all meals during the regular academic year, with the exception of the Sunday evening meal. During holiday periods the University dining halls are closed.

STUDENT HEALTH SERVICES

The Health Service provides student medical service and supervises health conditions on the campus.

A physician and nurse staff the student clinic. The University physician, located in Gullickson Hall, is available only for such services as may be rendered at the clinic, except in emergency cases. Students who wish to avail themselves of the Health Service are expected to call at the office of the physician.

The University's medical examination form, completed by the family physician and submitted as part of the admission credentials, is on file in the Health Service.

HOSPITALIZATION INSURANCE

The Student Government offers a specially formulated student accident and sickness group insurance plan providing coverage for hospital and medical expenses. The plan protects students at home, at the University, or while traveling for the entire regular term, including vacations. Special arrangements may be made for coverage during the Summer Session if desired. All full-time students and their dependents are eligible for participation in the plan.

Student hospitalization coverage is not compulsory, but is recommended.

Application forms may be obtained at the Student Government Office or the Office of Student Affairs.

THE PSYCHOLOGY CLINIC

The Psychology Clinic, located in M307 is open to full-time students for consultation on scholastic, vocational, social, and personal problems. Students are invited to make use of the Clinic.

THE SPEECH CLINIC

The Department of Speech operates a clinic to provide free assistance to any Marshall student who wants help with speech problems. The clinic also gives training in clinical procedures to future public school correctionists.

Consultation, examination, and recommendations are available to the public in so far as time and facilities permit. The clinic is located in the Academic Center.

MARSHALL UNIVERSITY LIBRARY

The Marshall University Library is housed in the James E. Morrow Library Building. Library facilities are open to University students, faculty, and staff. Permission for use of the facilities is also extended to others in the Huntington area when such use does not specifically interfere with use by those in the University community. Arrangements have been made with the Huntington Public Library to provide for cooperation in making the facilities of both collections available when necessary.

The Library contains approximately 130,000 volumes, and more than 1,200 current periodicals are received regularly. The Library is a designated depository for U. S. Government documents. Several special collections are available for reference use.

AUDIO-VISUAL CENTER

The Audio-Visual program at Marshall University aids the University faculty in selecting and utilizing audio-visual aids, and trains teachers and prospective teachers in the use of all types of audio-visual materials, equipment, and techniques. The Audio-Visual Center is maintained in Room 4, Science Building, and courses and workshops in audio-visual education are offered at the University and in extension centers throughout the state.

OFFICE OF PLACEMENT

Marshall University operates a free placement service. Graduating students have the opportunity to meet prospective employers from public schools, business, industry, governmental agencies and others. Alumni may use the service at no cost.

The Office of Placement, located in Old Main 114, assists students in securing employment while they are in college.

STUDENT CONDUCT

The faculty and administration of Marshall University recognize fully the rights and responsibilities of its students. These include the privilege

and obligation of maintaining high standards of social and personal conduct. While encouraging the students to develop independence, the University embraces the concept that liberty and license are not synonymous, and it therefore accepts the obligation to maintain those rules which will provide for the welfare of the individual and the campus community at large.

The faculty and administration of Marshall University believe that drinking of intoxicating beverages or beer is detrimental to the educational, physical, and financial well-being of the student. Therefore, the University disapproves the use of these beverages by students.

Intoxicating Beverages

1. The consumption or possession of intoxicating beverages or beer by students is not permitted on University property, at University athletic events, or in or on the premises of any supervised student living unit.
2. Drunkenness, the appearance of being under the influence of intoxicating beverages or beer, disorderly conduct, and damage to property as a result of drinking such beverages are prohibited.
3. Members and officers of student organizations are charged with the full responsibility for compliance with all rules governing conduct by persons attending social events sponsored by the host organization. It shall further be the responsibility of the officers and members of that organization to exclude unauthorized and uninvited persons from these events.
4. Marshall University students are subject to all West Virginia state and local codes and laws relating to the possession and consumption of intoxicating beverages or beer. The University, however, is not limited to the requirement of compliance with legal restraints, but may set its own standards above and beyond those provided by law.

ARTISTS SERIES, FORUMS, CONVOCATIONS

The Marshall University Artists Series, the Community Forum and special Convocations annually offer students professional talent of international reputation, including symphony orchestras, opera and lecture authorities. All programs are designed to instruct and entertain the student. Informal teas and conferences with artists and speakers contribute to the cultural life of the campus and students find a ready welcome to all of these events. A fee is included in the Student Activity Fee and no further admission charge is collected for any of the above programs.

SHAWKEY STUDENT UNION

The Shawkey Student Union, devoted wholly to social life, is a recreational center for all students. A soda fountain is operated, light refreshments are served and many formal and informal dances, receptions, and teas are held in the Union—the social center of the University. Recreational facilities are also provided.

UNIVERSITY THEATRE

University Theatre, an all-university activity, is under the general direction of the Department of Speech. Normally three full-length plays and several studio and experimental dramas are produced each year.

University Theatre experience is intended not merely to give training in dramatic skills and techniques, but to develop such qualities as poise, confidence, initiative, self-reliance, and cooperativeness. A further purpose is to encourage appreciation of dramatic literature, and to help keep alive the plays which have made dramatic history.

RADIO STATION WMUL

WMUL, Marshall's educational-FM radio station, began broadcasting in 1961. It is a University-wide activity, operated by a staff of volunteer students who are interested in broadcasting. The radio station is supervised by the director of educational radio-TV, and is the first educational-FM station to operate in West Virginia. WMUL broadcasts on 88.1 mc 7 days a week.

GEOLOGY MUSEUM

The University geology museum contains a collection of more than 5,000 geological specimens gathered from around the world, state and area. The museum is located in room 306 of the Science Building, as part of the Department of Geology. It is the only one of its kind in West Virginia.

BAND, ORCHESTRA AND CHORAL GROUPS

All students at Marshall University are eligible to enroll for any one of the major musical organizations on the campus such as the Marching Band, Concert Band, Stage Band, Marshall Community Symphony, Symphonic Choir, Men's Glee Club, A Capella Choir, Choral Union, Madrigal Singers, Opera Workshops, Wind Ensemble, and the Chamber Brass Ensemble. These organizations perform for many school functions and make a number of appearances in Huntington and occasionally make trips to other parts of West Virginia and neighboring states. Each major organization offers the student an enjoyable experience and an opportunity for advancement to higher musical achievement. Students interested in enrolling for any of the organizations should consult first with the Department of Music.

STUDENT PUBLICATIONS

THE PARTHENON is a semi-weekly news publication issued by students under the direction of the Department of Journalism.

THE STUDENT HANDBOOK is published annually in September by the Student Senate and the Office of Student Affairs and contains general information for all students with particular emphasis on information for freshmen.

THE CHIEF JUSTICE, the University annual, is published by the Student Government under the supervision of the Chief Justice Board.

ET CETERA is a campus literary magazine, established in 1953 as an outlet for student creative writing. It is published annually and is under the supervision of the Student Government.

SHAVETAIL is the monthly newspaper published by the cadets of the Marshall University Battle Group, Department of Military Science.

INTERCOLLEGIATE ATHLETICS

Marshall University is a member of the Mid-American Conference and competes in all sports with other Conference members, Bowling Green University, Kent State University, Miami University, Ohio University, University of Toledo and Western Michigan University. The Athletic Board schedules non-conference games with institutions of similar academic and athletic standards. Marshall University is also a member of the National Collegiate Athletic Association and conforms to its standards.

The president of Marshall University is responsible for the athletic policy as part of the internal administration of the University. Persons serving on committees appointed by the president act solely in an advisory capacity.

The Graduate School

GENERAL INFORMATION

In October, 1938, the West Virginia Board of Education authorized Marshall University to conduct graduate instruction leading to the Master of Arts and the Master of Science degrees. Graduate work was first offered during the summer session of 1939. The first master's degrees were conferred at the spring commencement of 1940.

Degrees

The degree of Master of Arts or Master of Science may be earned with a major in the following fields: art, biological sciences, chemistry, communication arts, counseling and guidance, English, geography, health and physical education, home economics, history, music, political science, psychology, sociology, and speech.

The degree, Master of Business Administration, may be earned with a major in accounting, economics, management or finance.

Programs for school personnel leading to the Master of Arts degree and certification are available in: administration (county superintendent, general supervisor, elementary principal, and secondary principal) counseling and guidance, and special education (option A).

Special programs for teachers leading to the Master of Arts degree are: elementary education, art-education, biological science-education, business-education, counseling and guidance, English-education, home economics-education, library science-education, music-education, physical science-education, secondary education, and social studies-education.

Fields that offer work for a minor only are anthropology, Bible, economics, French, geology, German, journalism, Latin, mathematics, philosophy, and Spanish.

Ordinarily the Master of Arts degree follows the Bachelor of Arts degree, and the Master of Science degree follows the Bachelor of Science degree; however, if a Bachelor of Arts degree has been received on qualifications which meet present requirements for the Bachelor of Science degree, either the Master of Arts or the Master of Science degree may follow at the option of the candidate.

Objectives of Graduate Work

1. To meet a regional need for an opportunity for graduate study.
2. To aid in the development of a corps of competent teachers, administrators, and counselors for the public schools of West Virginia.
3. To prepare students to use and evaluate the better known techniques of research and to appreciate their contribution to knowledge.
4. To prepare students for further graduate study.

Admission to Graduate School

Admission is based on official transcripts of college credits, the information provided on the application for admission form, and on whatever examinations and conditions the Graduate School may require in any given case. A minimum quality point average of 2.7 over-all with a minimum of 3.0 in the area of the proposed major is required for Unconditional Admission. Graduates from non-accredited institutions and applicants who are deficient in undergraduate preparation in the major field may be granted Provisional Admission. Grade requirements for Provisional Admission are the same as those for Unconditional Admission. Special Admission may be granted to applicants whose undergraduate quality point averages are below those required for Unconditional Admission when unavoidable circumstances adversely affected the applicant's undergraduate average and if the record indicates progressive improvement. To be eligible for advanced degrees, Special Admission students must complete 12 hours of graduate work with at least a "B" average and be reclassified by the dean of the Graduate School with the recommendation of the chairman of the student's major department.

Applicants for admission may be required to take any special or standard ability or achievement tests in determining their eligibility for admission. The major department may require an applicant to make a satisfactory showing on a special written or oral examination before accepting him as a major.

Application for admission must be filed in the Graduate School Office at least one month prior to the opening of the semester or term of enrollment. Two official copies of the applicant's undergraduate transcript must be mailed directly from the student's undergraduate college to the Graduate School Office when the application is filed. Students with undergraduate degrees from Marshall University must furnish a transcript for the Graduate School Office when they submit the application for admission.

Registrations for 500 series courses may be changed by administrative action to the 400 series course numbers if two transcripts of work for the baccalaureate degree and an application for admission to the Graduate School are not received within 30 days after registration.

Students who have not been admitted to the Graduate School and who wish to begin graduate work in extension courses must furnish transcripts and file application for admission as a part of the registration procedure. If these are not furnished immediately, it is the prerogative of the dean of the Graduate School to withdraw the student from the course by administrative action, or, to direct that the student shall not receive credit that may be counted toward an advanced degree in any institution.

Seniors with outstanding academic records who, in their last term or semester, do not require full time to complete the requirements for the baccalaureate degree may be permitted to register for a limited amount of graduate work with the approval of the student's undergraduate dean, the dean of the Graduate School, and the instructor with whom the work is taken. This practice is not encouraged.

Admission to Candidacy

Admission to graduate courses does not imply admission to candidacy for the master's degree. The student is admitted to candidacy only after

he has proved his ability and fitness to do graduate work. After completion of 12 semester hours at Marshall University, a student may apply for admission to candidacy for the degree. The application, bearing a record of courses completed, must be made on a form secured from the Graduate School. Examinations may be required for admission to candidacy for the degree. To be considered for admission to candidacy, a student must have received Unconditional Admission to the Graduate School and must have earned a quality point average of 3.0 (B) on all graduate work attempted.

The Adviser

The dean assigns each student an adviser from the major department. The adviser assists the student in planning his program for the master's degree. If the student writes a thesis, the adviser directs the student in that work. The adviser serves as chairman of the committee to conduct the student's oral examination, assembles questions for the comprehensive written examination and reports the result of these examinations to the Graduate School Office. Admission to candidacy for the master's degree and admission to the comprehensive examination must have the approval of the adviser. The student should keep in close touch with his adviser during the progress of his work.

General Requirements for Master's Degree

A student whose program requires a thesis must earn 32 hours of credit in graduate courses. Of these 32 hours, credit not to exceed 6 hours may be granted for the thesis. If a thesis is not required, the student must complete 36 hours of graduate course work. Students majoring in chemistry must earn 32 hours of graduate credit. Of these 32 hours, 12 hours must be in Chemistry 682, Research, which includes a thesis.

A minimum of 18 hours must be earned in one subject known as a major and a minimum of 6 hours in another subject known as a minor. Courses may be taken in a third closely related field if approved by the adviser. In special teacher-education curriculums courses may be distributed among several fields with the approval of the adviser.

On recommendation of the department and with the concurrence of the dean, the requirement of a minor may be waived.

At least 12 hours is the undergraduate prerequisite for a graduate major. Six hours is the prerequisite for the minor. Some departments require more than the minimum for admission to graduate courses. The undergraduate prerequisite may be waived with the consent of the dean and department chairman.

Graduate courses are numbered 500 to 699. Selected courses with 400 series numbers for undergraduate credit have 500 series numbers for graduate credit. A few courses that have 300 series numbers for undergraduate credit have 600 series numbers for graduate credit. In courses open to both graduate and undergraduate students, graduate students are required to do more

work than undergraduates. This includes more extensive reading, research papers, and other individual work. At least one-half of the work counted for the master's degree must be taken in courses numbered 600 to 699.

To receive a master's degree, students must have a scholastic average of not less than 3.0 (B). All grades of C or less are counted in computing averages, but no more than six hours of C and no grades below C may be applied toward the degree.

Meeting minimum requirements in hours of credit does not necessarily constitute eligibility for the degree. The work taken must constitute a unified program in the field. It must be completed at a level of competence befitting graduate work. To correct obvious weaknesses in the student's program for the degree, additional courses or other work may be required beyond the minimum as a condition of being admitted to candidacy or recommended for the degree.

Thesis

REGULATIONS GOVERNING THESIS REQUIREMENT. A thesis in the major field, completed to the satisfaction of the department, may be submitted. The maximum amount of credit that may be earned for the thesis is 6 hours for all departments. Students who will profit more by doing additional course work in lieu of a thesis must earn 36 course hours credit. The thesis adviser and student are guided by departmental requirements and the student's needs and interests in determining whether he is to write a thesis.

Students in departments other than chemistry register for Thesis 681. Chemistry majors register for Research 682. The student continues to register for Thesis 681, or Research 682 in chemistry, and pay tuition for the minimum number of hours per semester as required by his department until the thesis is accepted and a final grade submitted by the thesis adviser to the Registrar's Office. The thesis adviser reports a mark of PR (progress) for satisfactory work at the end of each term or semester for which the student is registered with the total amount of credit to be allowed. The student must be registered for thesis during the term in which the thesis is completed. The adviser may report a final grade of F at the end of any semester or term when in his opinion, because of irregular reports or unsatisfactory progress, the student should not be permitted to continue to register for research.

The mark of PR (progress) may be used only in reporting progress on Thesis 681 or Research 682 (chemistry). It may not be used in connection with other courses in the Graduate School.

The thesis must be sufficiently advanced one month before graduation to assure the adviser of its acceptability. Three unbound copies of the thesis must be filed with the dean of the Graduate School not later than two weeks before graduation. The thesis must be prepared according to the form furnished by the Graduate School Office. The Graduate School Office has three copies of the thesis bound. Two copies of the bound thesis are deposited in the Library. The third bound copy is filed in the major department.

VALUE AND NATURE OF THESIS. The experience of collecting, assembling and interpreting a body of information for a thesis is essential in developing the capacity to do independent work. This is a primary difference between graduate and undergraduate work. For capable graduate students, preparation of the thesis may be of great value. To be urged to write a thesis is a compliment to one's ability.

The thesis consists of a written interpretation of a body of facts and opinions gained through critical reading and independent study or reports the results of a research project. For teachers, it may be a presentation of a directed learning activity showing the purpose, problems involved, procedure, and effectiveness of the project.

Residence

At least 36 weeks must elapse between matriculation and graduation. This period may be shortened for those holding the bachelor's degree from Marshall University upon recommendation of the student's adviser.

All requirements for the master's degree must be met within five years from date of matriculation, unless an extension in time not to exceed three years is granted by the dean. Absence in one of the armed services and long serious illness are regarded as proper reasons for an extension of time. Work beyond the minimum course requirements may be prescribed when a portion or all of the credit is more than five years old. Validation by special examination may be required on credit that is more than five years old. This examination is optional with the major department. A student whose time is extended for completion of the degree must meet the requirements in the catalog in the year of the conferring of the degree. A student who does work in extension courses for graduate credit must be in residence one semester and one summer term, or four five-week summer terms, or two nine-week summer terms.

Part-Time Graduate Students

Teachers in service who are doing graduate work are limited in the amount of credit that may be earned by the regulations of the West Virginia Board of Education or of corresponding regulations of other states in which they may be employed.

Graduate students in other employment are required to limit their schedules in proportion to the time available for graduate study. As a general practice, the maximum graduate load of a student in full-time employment shall not exceed six hours in a semester or three hours in a five-week summer term. This limit may be exceeded only by permission granted by the student's adviser and the dean after the student has given satisfactory evidence that he can do more than an average quality of work on his total schedule.

Transfer of Credit and Extension Credit

The dean may, upon the student's petition, grant to a student the privilege of transferring to Marshall University, for application on the master's degree,

six graduate hours earned in another institution when, in the judgment of the dean and the student's adviser, such credit is to the advantage of the student's program. Occasionally it may be recommended that a student earn more than six hours in another institution in work not offered by Marshall University.

Courses taken in extension and work transferred from another institution cannot exceed nine hours in one field or total more than 12 semester hours. Graduate credits transferred from other institutions may be accepted if they are not superannuated for graduate credit toward meeting the requirements for a degree as shown in the current issue of the catalog of the institution from which the transfer of credit is requested. Extension credit counted toward the master's degree must be earned during regular academic years.

Six semester hours of extension credit may be accepted from West Virginia University. No extension credit may be transferred from any other graduate school.

Graduate credit accepted from other graduate schools must carry term grades of "B" or above.

Those who wish to begin work for the master's degree in extension courses must do the following before credit can be earned toward a degree in Marshall University or be transferred to another graduate school.

1. File application for admission to the Graduate School on a form furnished by the Graduate School Office.
2. Furnish two official transcripts of all previous college work. Those holding the bachelor's degree from Marshall University must have one copy of a transcript sent from the Registrar's Office to the Graduate School Office.
3. Receive a letter of admission from the dean of the Graduate School.

Extension students who fail to comply with these regulations within a reasonable time (dates to be announced each semester) may be withdrawn from courses by administrative action.

Comprehensive Examinations

A comprehensive examination on the major subject must be taken under the direction of the dean after it appears that the course work in progress will be completed successfully. The examination may be oral, written, or both. The examination is not based upon the specific courses pursued but is to test the student's maturity of thought in his field of specialization. The questions for the written examination are prepared by the student's adviser in consultation with other instructors in the major field. The oral examination is conducted by a committee of three appointed by the dean and includes the student's adviser and the head of the major department.

A candidate who fails the comprehensive examination may take a second examination at the discretion of the chairman of the student's major department and the dean of the Graduate School.

The Graduate Record Examination

Required prior to admission to candidacy for students in Education, Psychology, Sociology.

The Graduate Record Examination—Aptitude Test will be administered at Marshall University and other Graduate Record testing centers on the dates listed below.

TESTING DATES

January 21, 1967
April 22, 1967
July 8, 1967
October 28, 1967
January 20, 1968
April 27, 1968
July 13, 1968

REGISTRATION DEADLINES

January 6, 1967
April 4, 1967
June 20, 1967
October 10, 1967
January 2, 1968
April 9, 1968
June 25, 1968

The student must contact Educational Testing Service, Princeton, New Jersey, and file application for the test prior to the Registration Deadline Date.

The students in Sociology and Education are required to take the *Aptitude Test only*. This will be given during the morning session. The Aptitude Test score must be filed with the Dean of Graduate School, Marshall University, Huntington, West Virginia.

RESPONSIBILITY

Students admitted to the Graduate School are assumed to be mature adults and are expected to behave accordingly. The advisory services provided for in the operation of the various graduate programs assist the students. However, the student alone is responsible for following the procedures and completing the steps required in his program. Failure of an adviser to remind a student of a requirement or deadline date is not acceptable as a basis for waiver of the requirement. Requirements of the Graduate School, both procedural and substantive, may be waived only by written request of the student and/or committee concerned and must have the written approval of the Dean.

Courses of Instruction by Departments

Abbreviations

PR Prerequisite CR Corequisite

—lec—lab=lecture and laboratory hours per week (e.g., 2 lec-4 lab=two hours lecture and four hours laboratory per week)

ART

Professor Carpenter

501-502. HISTORY OF ART. 3; 3 hrs. I, II.

A survey of the development of architecture, sculpture, painting and the minor arts to 1400 A.D. and from 1400 A.D. to the present.

503. ORIENTAL ART. 3 hrs.

A historical survey of the architecture, painting, and sculpture of China, India, Indonesia, and Japan.

504. 20TH CENTURY ART. 3 hrs.

The principal developments in the architecture, painting, sculpture, and the minor arts of this century.

PR: Three hours in history of Western Art.

505. ART IN AMERICA. 3 hrs.

A survey of the development of architecture, painting, sculpture, and the minor arts in the United States from the colonial times to the present.

PR: Three hours in history of Western Art.

601. METHODS IN ELEMENTARY SCHOOL ART EDUCATION. 3 hrs. S.

For graduate students with limited experience in the arts and crafts wishing to familiarize themselves with methods and materials used in art education in the elementary school.

602. ART IN THE JUNIOR AND SENIOR HIGH SCHOOL. 3 hrs.

Emphasis on problems, materials, and procedures applicable to the junior and senior high school.

650-651-652-653-654-655-656. SPECIAL TOPICS OR PROJECTS IN ART.

3; 3; 3; 3; 3; 3; 3 hours.

The student will select special studies from art education, art history, drawing, painting, sculpture, ceramics, graphics, and other related approved projects.

670. SEMINAR. 3 hrs.

Readings and reports in selected areas of art education.

679. PROBLEM REPORT. 1-3 hrs.

681. THESIS. 1-6 hrs.

BIBLE AND RELIGION

Professor Jennings

518. DEVELOPMENT OF RELIGIOUS IDEAS. 3 hrs. I, S.

A study of the sources of religious thought of western culture.

BIOLOGICAL SCIENCES

Professors Ward, Edeburn, Fisher, Green, Mills, Plymale, Warren

Associate Professor Ash

Assistant Professors Modlin, Pradip, Shoemaker

The Master of Arts or the Master of Science degrees with a major in the biological sciences is preparation for teaching and research and for positions in public health, food sanitation, governmental and industrial biology, biological technical sales, conservation, game and wildlife management, park naturalist, genetics, pest control, and microbiology.

Master's degree candidates must have an adequate knowledge in both the plant and animal life sciences. Students who enter the Graduate School with a concentration in one of these fields and with little work in the other are expected to diversify their graduate studies in the biological sciences. A minimum of 18 hours in graduate courses in the biological sciences must be completed. At least 15 hours must be selected from the following courses: Biological Science 502, 601, 602, 604, 607, 615, 616, 619 and 630.

Selection of the individual's graduate program is determined by a committee composed of the chairman and two other members of the department.

Students who do not have 12 hours of undergraduate work in biology may be permitted to make up this work while taking graduate courses. Deficiencies in undergraduate preparation must be made up before admission to candidacy for the degree. A combined graduate and undergraduate program must present a total of at least 40 semester hours in the life sciences for the master's degree.

The graduate seminar furnishes the student with the opportunity to develop oral and written competency, to become familiar with current literature and its use in the mechanics of scientific writing, and to review basic principles in the biological sciences. The graduate student will include the seminar in his course of study each registration that he is enrolled as a student on the campus. A student will present at least two hours credit in seminar toward graduation requirements for the master's degree in the biological sciences.

A comprehensive oral examination covering the work in the major field to test the student's knowledge of the fundamentals, as well as his maturity of thought, in the biological sciences.

Students interested in the special program for biology teachers should see PROGRAM FOR HIGH SCHOOL TEACHERS OF BIOLOGY under Education.

502. VERTEBRATE NATURAL HISTORY. 3 hrs. II, S.

The origin, classification, life histories, habits and distribution of fishes, amphibians, reptiles and mammals. 1 lec-4 lab.

508. ORNITHOLOGY. 3 hrs. II, S.

Identification, distribution, migration and breeding activities of birds. 2 lec-2 lab.

513. PRINCIPLES OF ORGANIC EVOLUTION. 2 hrs. S.

The progress of animal life through time with a discussion of known causes.

524. ANIMAL PARASITOLOGY. 4 hrs. I.

Morphology, life histories, classification, and host relationships of common parasites. 2 lec-4 lab.

PR: Zoology 212.

526. MEDICAL ENTOMOLOGY. 4 hrs. II.

The role of certain insects and other arthropods in the transmission of disease-causing organisms and their methods of control. 2 lec-4 lab.

PR: Zoology 212 or equivalent.

582. CONSERVATION OF FORESTS, SOIL AND WILDLIFE. 3 hrs. I, S.

Primarily for teachers in the biological sciences, general and applied sciences. Includes fieldwork, seminars, and demonstrations related to conservation. 2 lec-4 lab.

583. DEVELOPMENT OF SCIENTIFIC THOUGHT. 3 hrs. II.

A study of men who have influenced science; their ideas; the philosophy of their periods; and the economic conditions leading to the scientific advancement. Lecture.

601. VERTEBRATE EMBRYOLOGY. 4 hrs. I.

Vertebrate development based on frog, chick and pig embryos. 2 lec-4 lab.

602. COMPARATIVE VERTEBRATE ANATOMY. 4 hrs. II.

Principles of structure, function, and relationships of vertebrate systems with emphasis on the dogfish and cat. 2 lec-4 lab.

603. BIOLOGICAL MICROTECHNIC. 3 hrs. I.

Principles and methods of fixing, imbedding, sectioning and staining of plant and animal preparations. Methods for identification and localization of cellular components. Introductory photomicrography. 1 lec-4 lab.

604. PLANT PHYSIOLOGY. 4 hrs. II.

Study of growth, nutrition and correlative phenomena in plants. Emphasis on food synthesis, translocation, and physio-chemical changes in growth and development including correlative functions of plant growth substances. Laboratory experiments planned to develop technique and independence in investigation. 2 lec-4 lab.

605. **ECONOMIC BOTANY.** 3 hrs. I.
Plants used by man for food, ornamental purposes, building materials, textiles and other industrial purposes; economic importance of conservation. No laboratory.
606. **FIELD BIOLOGY.** 4 hrs. II, S.
Identification, classification of plants and animals; study of different habitats, and communities of animal and plant life. 2 lec-4 lab.
PR: Six hours of biological science.
607. **GENETICS.** 4 hrs. I, S.
The fundamental principles and mechanisms of inheritance including their human applications. 3 lec-2 lab.
610. **HISTORY OF BIOLOGICAL SCIENCE.** 2 hrs.
A study of the development of biology as a science, including biographies of the great scientists from Aristotle to the present.
611. **BACTERIOLOGY.** 4 hrs. I, II, S.
Basic microbiological techniques; fundamental principles of microbial action, physiological processes, immunology, serology, disease process. 2 lec-4 lab.
- 613-614. **GENERAL ENTOMOLOGY.** 2; 2 hrs.
Collection, identification, classification and mounting of insects. 1 lec-4 lab.
615. **PLANT MORPHOLOGY.** 4 hrs. II.
Characteristics of the great plant groups. Discussion of the important steps in the development of plants; 2 lec-4 lab.
616. **PLANT TAXONOMY.** 4 hrs. II, S.
Identification and classification of seed plants and ferns of eastern United States. Readings in history and principles of taxonomy, rules of nomenclature and related topics. 2 lec-4 lab.
618. **PLANT PATHOLOGY.** 4 hrs. II.
Nature, cause and control of plant diseases. 2 lec-4 lab.
619. **CELLULAR METABOLISM.** 4 hrs. II.
The chemistry of cell functions, including cellular organization, with special emphasis on intermediary metabolism. 2 lec-4 lab.
625. **HUMAN ANATOMY AND PHYSIOLOGY.** 4 hrs. II.
The structure and functions of the human body. 3 lec-2 lab.
630. **ECOLOGY.** 4 hrs. I, S.
The interrelationships of plants and animals. Local and world distribution of biotic communities. 2 lec-4 lab.
PR: Botany 316 or consent of instructor.
642. **INVESTIGATIONS IN CONSERVATION.** 2 hrs.
Sponsored by cooperating colleges at Jackson's Mill. Individual work on problems of conservation under the direction of staff members. Evening seminars, operation and sources of audio-visual equipment in conservation.

650-651-652. SPECIAL PROBLEMS. 1-3; 1-3; 1-3 hrs.

By permission of adviser.

660-661-662. SEMINAR. 1; 1; 1 hr.

679. PROBLEM REPORT. 1-3 hrs.

681. THESIS. 1-6 hrs.

By permission of adviser.

BUSINESS

Professor Anderson, Associate Professors Evans, C. Miller

MASTER OF BUSINESS ADMINISTRATION PROGRAM

The program for the Master of Business Administration degree provides courses and experiences fundamental to understanding and establishing sound practices and the development of skills in managerial problem solving and decision making. The program provides opportunities for graduate study to students with varied educational backgrounds, from the applied engineering fields to undergraduate business administration majors.

The first phase of the program consists of courses in analytic methods, economics concepts, and measurement techniques. Applicants accepted for the program may obtain advanced standing in one or more of these subjects by passing qualifying examinations administered prior to the beginning of the fall and spring semesters. Any or all of these courses may be omitted, if the candidate's undergraduate record indicates competence in their content.

The second phase of the program consists of a core of courses in economic theory, the behavioral sciences, governmental regulations and quantitative controls in business. The major emphasis of these courses is on problem solving, and their completion qualifies students for more advanced work.

The third phase of the program consists of elective courses which provide intensive background material in areas of specialization. The student may elect courses from the fields of Accounting, Economics, Finance, and Management.

Upon completion of the three phases of the program, the student will be required to pass a comprehensive written examination in the broad areas of knowledge covered in the second and third phases.

He will also prepare and defend a thesis which defines and solves an actual business problem.

The total of 40-44 credit hours is organized so that it can be completed over a period of four semesters by full-time students or over a period of up to five years by a part-time student.

Admission

All applicants with bachelor's degrees from an accredited institution, U.S. or foreign, may be admitted. Admissions interest is in the whole person represented by the applications, and an attempt is made to identify his capacity for graduate work, his integrity, maturity, professional motivation,

leadership, and other personal qualifications for the demands of management. Attention is paid, therefore, to the applicant's (1) undergraduate scholastic record, (2) achievement on the Admission Test for Graduate Study in Business, (3) letters of evaluation, and (4) employment experience.

Courses

504. SECRETARIAL TRAINING. 3 hrs. I.
Development of a knowledge of business procedures, techniques, and customs with which a secretary should be familiar. Secretarial skills integrated through problem-type assignments.
PR or CR: Business Administration 301 and 305.
505. OFFICE PRACTICE. 3 hrs. II.
Work in cooperating business offices for approximately 15 hours per week and weekly conferences.
PR: Business Administration 404 or 504.
507. PROBLEMS OF BUSINESS LAW. 3 hrs. I, S.
Readings and case reports on current legal problems relating to business.
PR: Business Administration 307 and 308 or Business Administration 307 and graduate standing.
511. COST ACCOUNTING. 3 hrs. I.
Principles of industrial cost accounting; job order, departmental, and process costs.
PR: Business Administration 311 or permission of instructor.
513. AUDITING. 3 hrs. II.
Theory and procedures: legal and social responsibilities of the auditor.
PR: Business Administration 312 or permission of instructor.
514. ADVANCED ACCOUNTING PROBLEMS. 3 hrs. II, S.
Selected problems in advanced accounting principles and procedures.
PR: Business Administration 312 or permission of instructor.
515. FEDERAL TAXATION. 3 hrs. I, II.
Problems and procedures of income tax accounting.
PR: Business Administration 312 or permission of instructor.
518. MANAGERIAL ACCOUNTING. 3 hrs. II.
Budgetary control with standard costs, cost and profit analyses for decision-making purposes, direct costing, capital expenditure decisions, and return on capital employed and pricing policies.
PR: Business Administration 312 and 411. Open to senior and graduate students.
520. PRODUCTION MANAGEMENT. 3 hrs. II.
Managerial organization for production; plant design and layout; problems of procurement; control of plant; investment, working capital, and labor costs. Production operations, including scheduling and routing.

521. OFFICE MANAGEMENT. 3 hrs. II.
Principles and practices, approached from the viewpoint of the office manager, through oral and written problems.
522. RETAIL MERCHANDISING PROBLEMS. 3 hrs. I.
Managerial problems pertaining to sales inventory and purchases; retail method of inventory; sales expense and pricing; mark-up and mark-down planning; stock planning.
PR: Business Administration 340.
524. PERSONNEL MANAGEMENT. 3 hrs. II.
Principles and procedures involved in the recruitment, selection, training, placement, and maintenance of an effective working force.
534. INVESTMENT. 3 hrs. II.
Nature, forms and principles of investment; institutions for facilitating investment.
PR: Business Administration 323-324.
540. SALES MANAGEMENT. 3 hrs. I.
Policies and procedures pertaining to product planning and pricing, choice of market, planning sales effort, and the control of sales operations.
PR: Business Administration 231 and 340.
541. WHOLESALING. 3 hrs. II.
Nature and importance of wholesaling; managerial aspects and problems; governmental regulation.
PR: Business Administration 340.
542. TECHNIQUES OF MARKETING RESEARCH. 3 hrs. II.
Scope and importance of marketing and distribution research; product, package, and brand analysis; consumer, industrial and institutional surveys; quantitative and qualitative analysis of market data, situation analysis, sampling; tabulation and presentation techniques.
PR: Business Administration 318 and 340.
545. MARKETING MANAGEMENT. 3 hrs.
A phase of management dealing with the executive problems in the various areas of marketing.
PR: Business Administration 340, 341, and 440, or consent of instructor.
640. AMERICAN MARKETS AND MARKETING. 3 hrs. S.
Marketing principles developed through the case problems method.

Business Education

624. ORGANIZATION, ADMINISTRATION, AND SUPERVISION OF BUSINESS EDUCATION. 3 hrs.
Emphasis on problems involving the administration of the business education program in the secondary school and in post-high school institutions; provides fundamentals of school administration for the classroom teacher.

625. CURRICULUM CONSTRUCTION IN BUSINESS EDUCATION. 3 hrs.
Basic principles of curriculum and course of study construction in business, especially oriented to the secondary school; particular attention given to study of existing city and state business education programs.
626. CURRENT PROBLEMS AND ISSUES IN BUSINESS EDUCATION. 3 hrs.
Individual and group analysis of current problems and issues in teaching business subjects, particularly in the secondary school; identification and clarification of issues significant to the direction of sound business education.
627. TESTS AND MEASUREMENTS IN BUSINESS EDUCATION. 3 hrs.
A study of evaluation procedures in business education; survey of standardized and published test material and its utilization in the classroom; a review of basic statistical methods used in test interpretation.
628. ANALYSIS OF RESEARCH AND LITERATURE IN BUSINESS EDUCATION. 3 hrs.
A review and analysis of the most significant research and writing in business education; includes a study of research methods and the application of these methods to individual problems or topics.
629. TEACHING TYPEWRITING AND OFFICE MACHINES. 3 hrs.
Improvement of methods of teaching typewriting and office machines through evaluation of current research, methods, classroom materials, and current trends; discussion of major problems of teachers in these subjects.
630. TEACHING BASIC BUSINESS AND BOOKKEEPING. 3 hrs.
A study of the problems and techniques of teaching basic business subjects and bookkeeping; evaluation of major problems facing teachers, including motivation, remedial practices, use of classroom materials.
631. TEACHING SHORTHAND AND SECRETARIAL OFFICE PRACTICE. 3 hrs.
Teaching techniques and a study of research in methodology in shorthand and secretarial practice; a review and discussion of the major problems of shorthand teachers; study of testing and grading, use of visual aids, use of materials.

CHEMISTRY

Professors Wotiz, Bartlett, Hoback

Associate Professors Chakrabarty, Douglass, Hanrahan, Lepley, Reynolds

Assistant Professors Beistel, Roberts

The Committee on Professional Training of the American Chemical Society (ACS) does not have minimum standards for graduate study. The undergraduate work of the Department of Chemistry is approved by this committee of the ACS.

PREREQUISITES FOR GRADUATE STUDY IN CHEMISTRY

Students seeking a Master of Science degree with a major in Chemistry must have earned at least the bachelor's degree in chemistry or its equivalent as described in the Marshall University undergraduate catalog. Deficiencies must be removed by taking the appropriate undergraduate courses for no credit.

An entrance examination, which consists in part of the examination of the undergraduate record, is required of all students seeking graduate credits. This examination covers the field of organic, analytical, and physical chemistry. The results of these examinations are used to guide the student in his course of study.

In addition to the general requirements of the Graduate School, students majoring in Chemistry must fulfill the following departmental requirements.

The minimum of 32 semester hours must be distributed as outlined below:

- 1) All graduate students are required to take or present transfer credit for Chemistry 547, 548, 582, 609, 631, and a minimum of three hours credit in a chemistry laboratory course. (Chemistry 510, 556, 563, 566, 616, 617).
- 2) Twelve semester hours of research (Chemistry 682).

A reading knowledge of German, French, or Russian.

Students present seven copies of an acceptable thesis (three unbound copies to be delivered to the Graduate School) three weeks before graduation, and must defend their work in an oral examination before a committee.

Note: Courses marked "*" require a \$10.00 laboratory breakage deposit.

510.* ADVANCED CHEMICAL PREPARATIONS. 3 hrs. II.

The syntheses of organic and inorganic compounds which use specialized techniques. 1 lec-6 lab.

PR: Chemistry 256.

520. FUNDAMENTALS OF CHEMISTRY. 4 hrs. S. Offered on demand.

Three credits lecture and one credit laboratory. Open only to M.A. candidates.

PR: Analytical Chemistry or equivalent.

547. THE NATURE OF CHEMICAL BONDING. 3 hrs. I.

A modern viewpoint of structural chemistry with examples from inorganic and organic chemistry. 3 lec.

PR: Chemistry 358.

548. ADVANCED INORGANIC. 2 hrs. II.

2 lec.

PR: Chemistry 547.

556.* INSTRUMENTAL ANALYSIS. 4 hrs. II, S.

A study of use and application of modern analytical instruments and techniques. 2 lec-6 lab.

PR: Chemistry 345 and 357 or 307.

562. NUCLEAR CHEMISTRY AND PHYSICS. 3 hrs. II.
An introduction to the phenomena of nuclear physics and chemistry.
3 lec.
PR: Mathematics 221.
- 563.* NUCLEAR CHEMISTRY AND PHYSICS LABORATORY. 2 hrs. II.
4 lab.
CR: Chemistry 562.
- 566.* ORGANIC QUALITATIVE ANALYSIS. 3 hrs. Offered on demand.
The identification of organic compounds with the aid of modern instruments. 1 lec-6 lab.
PR: Chemistry 357 and 456.
575. BIOCHEMISTRY. 2 hrs. I.
A discussion of energy relationships in biological cycles and the mechanism of metabolism. Not recommended to students planning to attend medical or dental schools.
PR: Chemistry 256 and 357 or 307.
582. ADVANCED ORGANIC. 3 hrs. II.
3 lec.
PR: Chemistry 547.
604. THEORIES OF ANALYTICAL CHEMISTRY. 2 hrs. Offered on demand.
PR: Chemistry 547.
607. THEORETICAL ORGANIC. 2 hrs. I.
A study of the mechanisms of organic reactions.
PR: Chemistry 547.
609. THERMODYNAMICS I. 2 hrs. I.
CR: Chemistry 547.
610. THERMODYNAMICS II. 2 hrs. II.
PR: Chemistry 609.
613. STEREOCHEMISTRY. 3 hrs. I. (Not offered in 1967-1968).
The stereochemistry of organic and inorganic compounds. 3 lec.
PR: Chemistry 547.
- 616.* X-RAY DIFFRACTION. 3 hrs. Offered on demand.
2 lec-3 lab.
PR: Mathematics 221.
- 617.* SPECTROSCOPY. 3 hrs. Offered on demand.
A study of emission and absorption spectroscopy. 2 lec-3 lab.
PR: Mathematics 221.
618. KINETICS. 3 hrs. II. (Not offered in 1967-1968).
An advanced study of reaction rates and mechanisms.
PR: Chemistry 547.
- 622*-623.* ORGANIC. 3; 3 hrs. S. Offered on demand.
Two credits lecture and one credit laboratory. Open only to M.A. candidates.

- 627.* PHYSICAL CHEMISTRY FOR TEACHERS. 5 hrs. S.
Three credits lecture and two credits laboratory. Open only to M.A. candidates.
PR: Chemistry 520 or equivalent.
628. SPECIAL TOPICS (INORGANIC). 1-3 hrs. Offered on demand.
629. SPECIAL TOPICS (ORGANIC). 1-3 hrs. Offered on demand.
630. SPECIAL TOPICS (PHYSICAL). 1-3 hrs. Offered on demand.
- 631-632. SEMINAR. 1; 1 hr. I, II.
639. QUANTUM MECHANICS. 3 hrs. I. (Not offered in 1967-1968).
PR: Chemistry 547 or physics equivalent.
682. RESEARCH. 1-12 hrs. I, II, S.
PR: Approval of department chairman.
- Directed, original investigation in a field of chemistry. 12 semester hours credit in research must be applied toward the M.S. degree. Students may sign for one or more credit hours per semester depending on the time to be spent on research. A grade of PR may be reported at the close of each term or semester.

CLASSICAL LANGUAGES

Assistant Professor Hoy

Latin

501. ROMAN LIFE: PLINY, MARTIAL, JUVENAL. 3 hrs. II.
PR: Four years high school Latin or equivalent in college courses.
502. VERGIL'S AENEID. VII-XII. 3 hrs. II.
PR: Four years high school Latin or equivalent in college courses.
503. THE ROMAN STAGE: COMEDIES OF PLAUTUS AND TERENCE. 3 hrs. II.
PR: Four years high school Latin or equivalent in college courses.
- 550-551. SPECIAL TOPICS IN LATIN. 1-4; 1-4 hrs. I, II.
PR: Ten hours of Latin.

CLASSICAL CIVILIZATION

These courses are given in English and require no knowledge of the languages.

Greek

535. GREEK CIVILIZATION. 3 hrs. I.

Latin

536. ROMAN CIVILIZATION. 3 hrs. II.

COMMUNICATION ARTS

An interdepartmental program adaptable to the needs of persons in public relations, journalism, advertising, broadcasting, school library services, audio-visual supervision, school supervision and administration, and similar fields where a wide knowledge of related communication skills is required.

A committee from the cooperating departments guides the student with a member designated by the committee as the faculty adviser.

Students lacking the undergraduate equivalent for any course in Group 1 must take this course for graduate credit. Work taken under Group 2 must be distributed so that at least nine hours is outside any area of emphasis. Only one course in research methods may be taken for credit. For description of courses consult the appropriate departmental listings.

MINIMUM REQUIREMENTS 36 hours

GROUP 1 3-9 hours

LIBRARY SCIENCE 510

SPEECH 532

EDUCATION 565

GROUP 2 18-27 hours

LIBRARY SCIENCE 501, 504, 505, 550, 582-585, 604,
607, 610, 615, 620, 621, 625, 630, 635, 640

SPEECH 507, 508, 531, 533, 540, 545, 550, 601, 631, 634, 679, 681

EDUCATION 566, 610, 612, 621, 640, 641, 679, 681

ENGLISH 575, 580-590, 603, 610, 630, 631, 632, 679, 681.

GROUP 3 3-9 hours

ART 650

EDUCATION 543, 545, 601, 606

GEOGRAPHY 530

JOURNALISM 527, 528, 530

SOCIOLOGY 539, 625

Other courses with consent of adviser

Education 601 and 606 are open only to students who hold teacher's certificates based on courses completed in a teacher training institution.

681. THESIS. Credit of 3 hours may be earned by students whose reports in 679 were excellent and are of such a character to warrant further research. Students completing 679 and 681 for a total of 6 hours may qualify for the master's degree by earning an additional 27 hours of credit. Students completing 681 must defend their thesis in an oral examination.

ECONOMICS

Courses may be taken with approval of the student's adviser and instructor in the course.

502. BUSINESS CYCLES. 3 hrs. II.

Description and history of the business cycle; theories of the cycle; forecasting; monetary and fiscal policies for stabilization.

PR: Economics 242, 300, or equivalent.

508. COMPARATIVE ECONOMIC SYSTEMS. 3 hrs.
Marxism, capitalism, communism, fascism, and socialism considered as theories, movements, and actual political economies.
PR: Economics 242, 300, or equivalent.
510. THE SOVIET ECONOMIC SYSTEM. 3 hrs.
Resources and institutions of the U.S.S.R.; ideological and historical background; central planning; economic development.
PR: Economics 242, 300, or equivalent.
520. INTERNATIONAL TRADE AND EXCHANGE. 3 hrs. I.
Movement of goods and balance of payments among nations; exchange rates; exchange controls and tariffs; problems and policies.
PR: Economics 242, 300, or equivalent.
525. THE ECONOMY OF WEST VIRGINIA. 3 hrs.
Resources, labor, industries, institutions, markets, transportation facilities, etc., in West Virginia and the regional economy.
PR: Economics 242, 300, or equivalent.
540. HISTORY OF ECONOMIC THOUGHT. 3 hrs. I.
Economic theories and ideas from the earliest contributions to the 1880's.
PR: Economics 242, 300, or equivalent.
544. CONTEMPORARY ECONOMIC THEORY. 3 hrs. II.
Economic theories and ideas from Marshall to Keynes.
PR: Economics 242, 300, or equivalent.
548. AMERICAN ECONOMIC THOUGHT. 3 hrs. II.
Contributions of American scholars to economic doctrines; emphasis on the Institutional and Neo-Classical Schools.
PR: Economics 242, 300, or equivalent.
561. ECONOMIC EDUCATION WORKSHOP. 3 hrs. S.
Intensive review of subject matter and teaching methods in economics designed for elementary and high school teachers.
PR: Consent of instructor or grant of scholarship.
- 571-572. SEMINAR IN SPECIAL TOPICS. 2-4; 2-4 hrs. I, II.
Members of the department may teach, when necessary, any economics subject not listed among the current course offerings.
PR: Nine hours of economics and consent of instructor.
- 581-582. DIRECTED RESEARCH. 2-4; 2-4 hrs. I, II.
A research project conducted by a qualified student under guidance of a member of the department; involves gathering of data, interpretation, and presentation of findings in a written report.
PR: Twelve hours of economics and consent of the instructor, department chairman, and the dean of the Graduate School.

EDUCATION

Professors Morris, Anderson, Cubby, Hayes, Hess, Irvin,
Nuzum, Runyan, Willey

Associate Professors Arhelger, Brown, Core, Felty, Gibbins,
Gray, Jordan, Lichtenstein, Phillips, Ritchie, Ward

Assistant Professors Campbell, Hunter, Jenkins, Mangan, Regula, Soistman

The undergraduate prerequisite for a graduate major is 15 semester hours in education. College graduates who do not meet this requirement may take a limited number of graduate courses in education concurrently with the undergraduate courses required for certification. Registration for graduate courses in education to meet certificate requirements does not admit the student to the Graduate School as a candidate for a master's degree. Final determination of whether or not the student is permitted to count graduate courses in education toward a master's degree is made after completion of the requirements for a valid certificate. Passing the National Teachers Examination does not exempt the applicant from the undergraduate requirement in education.

The student's adviser may require that specific courses be completed to correct weaknesses that become apparent during his progress toward the master's degree.

Students working toward an administrative certificate or counselor certificate must plan their programs to include from 6 to 12 hours in courses not listed as education.

Students admitted to administrative, counseling, or teacher-education programs must, before being admitted to candidacy for the master's degree:

1. Complete 15 semester hours of graduate courses with a 3.0 (B) average.
 - a. At least six semester hours must be completed in residence.
 - b. Education 621, Educational Research and Writing, must be completed as a part of the first 15 hours. This course is optional in certain teacher-education programs.
2. Submit to a test of scholastic aptitude. (G.R. Exam.—Aptitude Test)*
3. Have a Professional Teaching Certificate valid in West Virginia or the equivalent thereof.

When these requirements have been met, a committee composed of the student's adviser, the chairman of the department, and the dean of the Graduate School will decide, upon consideration of the student's graduate record and the results from tests, whether the student shall be admitted to candidacy.

At any time either in the process of admitting a student to the Graduate School or in admitting a student to candidacy for the master's degree the

*Students must arrange for this examination by writing to Educational Testing Service, Princeton, New Jersey.

chairman of the department and/or the dean of the Graduate School may require the applicant to submit to additional tests if it is felt that the results from these tests will provide a better basis upon which to judge the student's possible success in graduate work.

Students may not enroll in the following courses until they have taught for one year: Education 601, 602, 603, 604, 606, 614, 646, 649, 650, and 651.

Courses for persons minoring in education must be chosen from the following: Education 517, 535, 545, 560, 590, 609, 610, 614, 515 or 615, 616 or 648, 635.

Teachers, with master's degrees, who wish to qualify for additional certification or endorsement must apply for admission to the program selected and meet the admission requirements of the program.

CERTIFICATE CURRICULA

A. COUNTY SUPERINTENDENT

MINIMUM REQUIREMENTS 32-36 hours

1. Education 601, 602, 603, 604, 606, 613, 621, 681 27 hrs.
2. With the approval of the adviser select from Education 517, 528, 535, 543 or 545, 560, 565, 590, 610, 615, 616, 617, 618, 635, 648, 675 3 hrs.
3. Electives selected with the approval of the adviser 2-6 hrs.

B. ELEMENTARY PRINCIPAL

MINIMUM REQUIREMENTS 32-36 hours

1. Education 601, 604, 606, 610, 613, 621, 681 24 hrs.
2. With the approval of the adviser, select from Education 517, 528, 543, 560, 590, 595, 616, 617, 618, 635, 656, 657, 670, 671, 675 3-6 hrs.
3. With the approval of the adviser, select not fewer than six hours in student's field of interest (courses listed as education excluded) 6-12 hrs.
4. Electives selected with the approval of the adviser 0-9 hrs.

C. SECONDARY PRINCIPAL

MINIMUM REQUIREMENTS 32-36 hours

1. Education 601, 604, 606, 613, 610, 621, 681 24 hrs.
2. With the approval of the adviser, select from Education 515, 517, 528, 535, 545, 560, 565, 590, 614, 615, 617, 618, 635, 647, 648, 675 3-6 hrs.

3. With the approval of the adviser, select not fewer than six hours in student's field of interest (courses listed as education excluded) 6-12 hrs.
4. Electives selected with the approval of the adviser 0-9 hrs.

D. GENERAL SUPERVISOR

MINIMUM REQUIREMENTS 36 hours

1. General Requirements
Education 606, 616, 621, 681 15 hrs.
2. *Practice in Supervision
Education 672, 673, 674 9 hrs.
3. Requirements in problems of teaching education
Education 543 or 545, 657, 667 or 670, 671 12 hrs.

*Courses to be acquired through not less than two years of field experience on a county-wide basis, supervised jointly by the University, State Department of Education, and county superintendent.

E. SPECIAL SUPERVISOR

ART, HEALTH AND PHYSICAL EDUCATION, AND MUSIC

MINIMUM REQUIREMENTS 36 hours

1. General Requirements
Education 606, 616, 621, 681 15 hrs.
2. *Practice in Supervision
Education 672, 673, 674 9 hrs.
3. Courses in field of
Specialization 12 hrs.

*Courses to be acquired through not less than two years of field experience on a county-wide basis, supervised jointly by the University, State Department of Education and county superintendent.

F. GUIDANCE COUNSELOR

MINIMUM REQUIREMENTS 32-36 hours

1. Principles of Guidance
Ed. 590*, Ed. 610, Ed. 613, Ed. 640, Ed. 641
2. Individual Inventory
Ed. 535, Ed. 635, Ed. 646*, Psy. 506, P.E. 565
3. Counseling
Ed. 614*, Ed. 649*, Ed. 651*, Soc. 512, Soc. 531
4. Environmental Information
Ed. 647*, Bus. Adm. 524, Econ. 525, Econ. 561, Geog. 520, Geog. 606, Home Ec. 515, Phy. Ed. 560, Pol. Sci. 600, Soc. 508, Soc. 533, Soc. 535, Soc. 539, Soc. 602

5. Psychology

Ed. 520, Ed. 533, Ed. 616**, Ed. 648**, Psy. 508,
Psy. 516, Psy. 518, Psy. 614

6. Research

Ed. 517*, Ed. 621*, Ed. 617, Ed. 618, Ed. 650, Ed. 679,
Psy. 517, Psy. 623, Psy. 624, Ed. 681

*Students desiring only a certificate must take the starred courses.

**Elementary school counselors must take Ed. 616, Secondary school counselors must take Ed. 648.

G. ADVANCED STUDY IN SCHOOL ADMINISTRATION

The Certificate in Advanced Study in School Administration is earned by completing a minimum of two years of graduate work in residence including such courses, field experiences, research, and examinations as may be required by the student's advisory committee. The mere completion of any prescribed list of courses and other experiences does not lead necessarily to the certificate. It can be earned only by demonstrated capacity for original investigation, with scholarly attainment in the area of school administration, and a comprehensive grasp of the basic concepts and problems in the entire field of education.

Students may apply for admission to this program after completing 24 hours of graduate work with a minimum scholastic average of 3.0 (B) including Education 601, General School Administration: Basic Course; Education 604, The School Principal; Education 606, Supervision of Instruction: Basic Course; Education 613, Organization and Administration of Guidance Programs; and Education 621, Educational Research and Writing. The remainder of the work required for the certificate must be chosen from the total offerings of the Graduate School to satisfy the needs of the student.

Retention in the program is based on the previous scholarly record of the student, personal references, and diagnostic tests. Holders of the master's degree with superior qualifications may seek admission to the program. They must participate in all diagnostic procedures required for admission. Eligibility for admission is determined by the Admissions Committee.

The student's work in the two-year program is directed by an advisory committee of three members of the Education faculty. The student chooses an adviser who serves as chairman of his committee and with whom he consults in the choice of two additional members subject to the approval of the dean of the Graduate School. The committee may include a member from another department, if it is helpful to the student in the attainment of his professional objectives.

A student entering the two-year program must take diagnostic examinations. These are given under the direction of the student's advisory committee and bear a close relationship to his objectives. All courses and field experiences must be approved by the advisory committee. If courses needed to satisfy the objectives are not available in Marshall University, the advisory committee may direct the student to take appropriate courses in another graduate school which are accepted as transfer credit. Research ability dem-

onstrated by papers submitted is one of the important requisites of this program. The advisory committee determines the extent and nature of the research required.

Each candidate must pass a written examination followed by a general oral examination based on his objectives. These examinations are supervised by the advisory committee as the final step in completing the two-year program. A scholastic average of 3.0 (B) is required on all courses attempted for the certificate.

Application for admission must be made to the dean of the Graduate School.

Several positions for which this program prepares are:

- School Superintendent
- Elementary School Principal
- Secondary School Principal
- School Business Manager
- General or Special Supervisor of Instruction
- Guidance Counselor
- Supervisor of Special Education
- Director of Communication Services
- Special Education Specialist
- Director of Educational Measurement and Statistics

TEACHER EDUCATION CURRICULA

A. ELEMENTARY

Students in this program may take not more than six hours in Educational Guidance to be chosen from Education 590, 614, and 646.

MINIMUM REQUIREMENTS 32-36 hours

1. Education 609, 560 or 610, 616, 621 12 hrs.
2. With the approval of the adviser select from Education 515, 535, 543, 560, 565, 595, 610, 615, 635, 656, 657, 670, 671, 678 9 hrs.
3. Electives (Must be approved by the adviser.) 11-15 hrs.

B. SPECIAL EDUCATION

OPTION A

Option A is for teachers who wish to have their professional certificate, valid in grades 1-9, endorsed for teaching mentally retarded children.

MINIMUM REQUIREMENTS 32-36 hours

1. Education 609, 616, 621 9 hrs.
2. Education 520, 533, 535, 540, 543, 553 and 629 21 hrs.
3. Speech 518 or 525 3 hrs.
4. Electives in departments other than education 3 hrs.

OPTION B

Option B is for teachers whose professional certificate, valid in grades 1-9, has been endorsed for teaching mentally retarded children.

MINIMUM REQUIREMENTS 36 hours

1. Education 609, 616, 621, 681 15 hrs.
2. Education 625, 626, 627, 628, 629 15 hrs.
3. Electives outside of education selected with approval
of adviser 6 hrs.

Recommended courses:

SOCIOLOGY 535 or 539

ART 601

MUSIC 670

C. ART

Admission to the program requires 18 semester hours of art. Deficiencies in undergraduate work must be made up by taking prescribed courses for undergraduate credit.

MINIMUM REQUIREMENTS 32-36 hours

1. Education 609 and 616 or 648 6 hrs.
560, 590, 610 or 528, 621 3 hrs.
Note: Students electing to write theses must include
Education 621.

2. Art 501, 502, 504, 505 6-9 hrs.
601, 602 3-6 hrs.
650, 651, 652, 653, 654, 655, 656 9-12 hrs.
670 2 hrs.

3. Pass a comprehensive written and/or oral examination on the
courses completed.
4. Present an acceptable exhibition of the creative work achieved
during the period of graduate study.

D. MUSIC

The degree Master of Arts with a major in music education requires a minimum of 32 semester hours of graduate work of which not more than 6 hours may be earned by a thesis. The thesis may be a problem report, graduate recital, or music composition of merit. If a thesis is not submitted, a minimum of 36 hours of course work must be completed. All candidates for the master's degree must participate in a major music ensemble.

The program for the degree must include 18 hours of music education of which 6 hours may be in instrumental techniques, 6 hours of music history and literature, 6 hours of education, and 6 hours from other fields of music. Six hours may be taken in applied music.

Majors in music education are given an audition in applied music covering piano and the major instrument or voice not later than the time of completion of twelve semester hours of graduate work. Applicants are encouraged to take these examinations prior to registering for graduate courses.

Instrumental

| | |
|---|----------|
| EDUCATION | 6 hours |
| Education 648, Advanced Studies in Human Adjustment .. | 3 hrs. |
| or Education 616, Advanced Studies in Child Development | 3 hrs. |
| Education 606, Supervision of Instruction | 3 hrs. |
| MUSIC HISTORY AND LITERATURE | 6 hours |
| Music 601a Survey of Music Literature | 3 hrs. |
| Music History Electives | 3 hrs. |
| MUSIC EDUCATION | 18 hours |
| Music 610, Philosophy of Music Education | 3 hrs. |
| Music 611, Psychology of Music | 3 hrs. |
| Music 630, Instrumental Conducting and Interpretation .. | 2 hrs. |
| Music 615, Band Maneuvers and Pageantry | 2 hrs. |
| Music Education Electives | 8 hrs. |
| ELECTIVES IN MUSIC | 6 hours |

Vocal

| | |
|---|----------|
| EDUCATION | 6 hours |
| Education 648, Advanced Studies in Human Adjustment .. | 3 hrs. |
| or Education 616, Advanced Studies in Child Development | 3 hrs. |
| Education 606, Supervision of Instruction | 3 hrs. |
| MUSIC HISTORY AND LITERATURE | 6 hours |
| Music 601a Survey of Music Literature | 3 hrs. |
| Music History Electives | 3 hrs. |
| MUSIC EDUCATION | 18 hours |
| Music 610, Philosophy of Music Education | 3 hrs. |
| Music 611, Psychology of Music | 3 hrs. |
| Music 629, Choral Conducting and Interpretation | 2 hrs. |
| Music Education Electives | 10 hrs. |
| ELECTIVES IN MUSIC | 6 hours |

Supervision

(Special Supervisor's Certificate)

A student wishing to earn a master's degree with a major in music education and meet the requirements for the Special Supervisor's Certificate may complete either of the programs outlined above. However, nine semester hours of electives in music must be reserved for field courses in practice in supervision.

E. LIBRARIAN

Twelve semester hours of library science in areas of school library administration, cataloging and classification, reference, and orientation in school library service are required for admission to the program. These requirements may be fulfilled by successful completion of Library Science 301, 310, 315, and 320 or their equivalent. (See Marshall University Undergraduate Catalog, Teachers College.)

MINIMUM REQUIREMENTS 36 hours

1. Education 590, 609, 610 or 528 and 543 or 545 12 hrs.
2. Library Science, including Library Science 621 18 hrs.
3. Electives (selected with the approval of adviser) 6 hrs.

Library Science as a minor field may be combined with another offering a graduate degree. Courses are to be selected with the approval of the student's major adviser and the chairman of the Department of Library Science. Prerequisites must be completed and a minimum of six semester hours in library science is required as a prerequisite to a minor.

F. TEACHER EDUCATION ASSOCIATE

This endorsement is for the teachers in public schools who are eligible to supervise student teaching. To qualify for the Teacher Education Associate Endorsement, the candidate:

1. Must complete the requirements for the master's degree.
2. Complete the following in meeting the requirements for the master's degree or as credit beyond the master's degree:
 - (a) Fifteen (15) or more semester hours of course work in each area of specialization at the secondary level in which he supervises student teachers.
 - (b) Any fifteen (15) or more semester hours completed from the required areas on the master's degree program in elementary education at Marshall University (or comparable to the Marshall program if completed at another institution) will suffice for the specialization requirement for the elementary supervising teacher.
 - (c) Education 606 and/or 610—3 hours.
 - (d) Education 678—3 hours.
3. Shall hold a valid professional license endorsed for the specialization(s) in which he supervises student teachers.
4. Shall have five (5) years of successful teaching experience, two of which shall be in the area of specialization and/or at the grade level in which he supervises student teachers.
5. Shall be recommended by the Director of Student Teaching at Marshall University, after he has completed a minimum of six (6) semester hours including Education 678: THE SUPERVISING TEACHER.

G. SECONDARY

(For programs in Art, Music, and Special Education, refer to Section C.)

Teachers eligible for the following programs must have, before completing the requirements for the master's degree, professional certificates valid for grades seven through twelve or must be teaching in a junior high school and certified to teach grades one through nine. The latter must complete Education 528.

1. BIOLOGY

Deficiencies in undergraduate preparation may be corrected while taking graduate courses. Students graduating in this program must have a minimum of 40 semester hours of graduate and undergraduate biological science.

MINIMUM REQUIREMENTS 36 hours

1. Education 9 hrs.

To be selected from the following courses:

Education 515, 528, 535, 560, 565, 590, 609, 610,
640 or 641, 648 and 668.

The student must include Education 668 in his
professional courses.

Students electing Education 640 or 641 are ex-
pected to do readings pertaining to the teach-
ing of biology.

2. Biological Science 18 hrs.

A minimum of 15 hours must be taken from the fol-
lowing courses: Biological Science 502, 601, 602, 604,
607, 615, 616 and 630.

3. Electives 9 hrs.
(Selected with approval of adviser.)

2. BUSINESS

This program provides course work in professional education, business education, and business administration. Selection of courses is based on individual needs.

Students graduating in this program must have a minimum of 40 semester hours of graduate and undergraduate business administration. They must have met the requirements of a professional certificate to teach business in the secondary schools. Deficiencies in undergraduate preparation may be corrected while taking graduate courses.

MINIMUM REQUIREMENTS 32-36 hours

1. Education: Restricted election of advanced professional
education 3 hrs.
2. Education 621 3 hrs.

3. Business Education:

a. A minimum of nine semester hours from the following professional business education courses: 624, 625, 626, 627, 628 9 hrs.

b. A minimum of six semester hours from the following methods courses: 629, 630, 631 6 hrs.

4. Business Administration: A selection of appropriate course work from 500-600 level business administration courses 9 hrs.

5. Electives: Selected with the approval of adviser 2-6 hrs.

NOTE: Not to include Business Education 624, 625, 626, 627, 628 or courses in education except Education 679 and 681.

3. ENGLISH

Undergraduate course requirements are a minimum of 15 hours in English literature and American literature.

A minimum of six hours of college credit in a foreign language (or demonstrated reading ability in a foreign language) is required for unconditional admission to the program. Students who lack this minimum and who are admitted provisionally are required to make up the deficiency prior to admission to candidacy.

MINIMUM REQUIREMENTS 32-36 hours

1. Education 541, 545, 648, 652 12 hrs.

2. English 555 and one of the following: English 575, 631 or 632 6 hrs.

3. Education 621 or English 630 3 hrs.

4. Electives in Education and English 11-15 hrs.
(Students are required to do at least one-half of their work in English.)

4. HOME ECONOMICS

MINIMUM REQUIREMENTS 32-35 hours

1. Education 621 and Home Economics Education 600, 601, 602, 603 12-15 hrs.

NOTE: Education 621 and Home Economics Education 600 and 601 required of all students.

2. From Education 535, 560, 565, 566, 590, 609, 610 or 528, 616 or 648 6-9 hrs.

3. From Home Economics Education 560 and from Home Economics 500, 503, 505, 507, 513, 515, 516, 519, 520, 554, 581-585, 684-685, 690-691 12-18 hrs.

4. Electives (selected with approval of adviser) 3-6 hrs.

5. PHYSICAL SCIENCE

Teachers with 16 hours of chemistry, 8 hours of physics, and 10 hours of mathematics on the undergraduate level are eligible for this program.

Deficiencies in mathematics may be corrected concurrently with this program. The writing of a thesis is optional.

MINIMUM REQUIREMENTS 32-36 hours

1. From Education 560, 590, 609, 610 or 528, 621, 640, 648 9 hrs.
Six semester hours of education must be done on the campus.

Note: Students electing to write theses must include Education 621.

2. Chemistry and physics 18 hrs.

OPTION A

From Chemistry 620, 621, 622, 623, 624, 625, or other courses chosen with the consent of the chairman of the Department of Chemistry 12 hrs.

From Physics 640, 641, 642, 643, 644, 645, 646 6 hrs.

OPTION B

From Physics 640, 641, 642, 643, 644, 645, 646 12 hrs.

From Chemistry 620, 621, 622, 623, 624, 625 or other courses chosen with the consent of the chairman of the Department of Chemistry 6 hrs.

3. Electives in science, mathematics, or education 5-9 hrs.

6. SOCIAL STUDIES

For this program, social studies includes economics, geography, history, political science, and sociology (including anthropology). Only teachers with at least 30 hours of undergraduate work in this area are eligible for this program.

MINIMUM REQUIREMENTS 32-36 hours

1. Professional and specialized courses 9 hrs.

Education 667, Teaching Social Studies in
Secondary Schools 3 hrs.

or

Education 670, Teaching Social Studies in
Elementary Education

Education 648, Advanced Studies in
Human Adjustment 3 hrs.

or

Education 616, Advanced Studies in
Child Development 3 hrs.

Education 640, Literature of Education 3 hrs.

(The work done in Education 640 is generally in the literature of the social studies and social sciences. The adviser may vary requirements to meet the needs of the student.)

2. Social Studies and electives23-27 hrs.

a. Twelve hours must be distributed equally in two of the following fields: economics, geography, history, political science, and sociology (including anthropology).

b. The rest of the work may be distributed among the five fields provided that: Not more than 15 hours are in any one of the social studies; and, at least 6 hours are earned in each of the social studies fields in undergraduate and graduate work combined.

c. After the minimum requirements in social studies are met, electives must have the approval of the adviser.

7. SECONDARY SCHOOLS

A program of courses for teachers in junior and senior high schools for whom provisions have not been made in the offerings of the Department of Education in other programs.

MINIMUM REQUIREMENTS 32-36 hours

1. Education 609, 610 or 528, 621, 648 12 hrs.

2. Education electives selected with approval of the adviser from Education 515, 517, 535, 545, 560, 590, 606, 614, 615, 616, 675, 679 and 681 6 hrs.

3. In fields of interest outside of Education to be selected with the approval of the adviser 12 hrs.

4. Electives 6 hrs.

515. HISTORY OF MODERN EDUCATION. 3 hrs. I, II, S.

Our debt to the ancient Hebrews, Greeks, and Romans. Emphasis on movements since the beginning of the Renaissance.

517. STATISTICAL METHODS. 3 hrs. S.

Elementary statistics for students in economics, education, political science and sociology.

PR: Consent of instructor.

520. INTRODUCTION TO EXCEPTIONAL CHILDREN. 3 hrs. I, S.

The study of children who deviate from the average in mental, physical and social characteristics, including a study of the characteristics of such children and the adaptation of educational procedures to their abilities and disabilities.

528. THE JUNIOR HIGH SCHOOL CURRICULUM. 3 hrs. I, II, S.
The study of procedures for creating a functional junior high curriculum with emphasis upon the needs of early adolescents.
533. CHARACTERISTICS OF THE MENTALLY RETARDED. 3 hrs.
Mental retardation, identification, causes, and prevention.
PR: Education 520 and/or consent of instructor.
535. TESTS AND MEASUREMENTS. 3 hrs. I, II, S.
History, basic philosophy, and elementary statistical devices for evaluating pupil progress; new type tests constructed and standardized tests for elementary and secondary schools examined and administered.
PR: Consent of instructor. Enrollment in Education 405 or 450.
540. STUDENT TEACHING—PRACTICUM WITH EXCEPTIONAL CHILDREN.
3 hrs.
Supervised experience in the area of emphasis. Permission of director of program of Special Education.
541. LITERARY MATERIALS FOR ENGLISH AND SOCIAL STUDIES. 3 hrs. I, S.
Reading and evaluation of a variety of literary selections suitable for grades 7-12.
543. TEACHING OF READING IN ELEMENTARY SCHOOLS. 3 hrs. I, II, S.
Modern techniques and practices in the teaching of reading.
PR: Enrollment in Education 405.
545. TEACHING OF READING IN SECONDARY SCHOOLS. 3 hrs. I, II, S.
Principles underlying teaching of reading in secondary schools.
PR: Enrollment in Education 319.
553. CURRICULUM FOR THE RETARDED. 3 hrs.
Organization of instruction for educable, slow learners. Emphasis on curriculum, methods, and evaluation. Demonstrations and observation with the mentally retarded. A laboratory course.
PR: Education 520 and 533.
560. PHILOSOPHY OF EDUCATION. 3 hrs. I, II, S.
Basic philosophic schools and concepts and their application to educational practice.
PR: Enrollment in Education 405 or 450.
565. AUDIO-VISUAL AIDS IN LEARNING. 3 hrs. I, II, S.
Utilization of audio-visual materials, equipment, and techniques.
566. PRODUCTION OF AUDIO-VISUAL AIDS. 3 hrs. I, S.
Basic techniques in making slides, photographs, dry and wet mountings, felt board materials, movies, tape recordings, and similar teaching aids.
569. TEACHING BUSINESS EDUCATION. 2-3 hrs. I, II, S.
Materials and methods of teaching business subjects in secondary schools.
CR: Education 319.

- 582-583-584-585. SPECIAL TOPICS. 1-4; 1-4; 1-4; 1-4 hrs. I, II, S.
590. PRINCIPLES AND PRACTICES OF GUIDANCE. 3 hrs. I, II, S.
Objectives, principles, and practices of guidance.
CR: Enrollment in Education 450.
595. CLINICAL PRACTICE IN READING INSTRUCTION. 3 hrs. S.
Diagnosis of difficulties; plans for corrective treatment; actual work with pupils.
PR: Education 443 or 543 or consent of instructor.
601. GENERAL SCHOOL ADMINISTRATION: BASIC COURSE. 3 hrs. I, S.
Federal and state participation in school administration; roles of state and county boards of education; relation of schools to other community agencies; organization of staff and selection of personnel.
602. GENERAL SCHOOL ADMINISTRATION: FINANCIAL ASPECTS.
3 hrs. I or II, S.
Basic principles of school finance; taxation for school support; budgeting; accounting and auditing; insurance; extra levies and bond issues.
PR: Education 601.
603. GENERAL SCHOOL ADMINISTRATION: PLANT AND EQUIPMENT.
3 hrs. I or II, S.
Planning buildings; architectural service; maintenance and replacement of equipment; transportation equipment and its maintenance and use.
PR: Education 601.
604. THE SCHOOL PRINCIPAL. 3 hrs. I or II, S.
Duties and responsibilities of elementary and secondary school principles; problems in organizing and directing the school program.
Course content is adjusted to the needs of either elementary or secondary school principals.
PR: Education 601.
606. SUPERVISION OF INSTRUCTION: BASIC COURSE. 3 hrs. I or II, S.
Principles; procedures used in improving instructional program in schools.
Course content is adjusted to the needs of either elementary or secondary school principals.
609. THE TEACHER AND SCHOOL ADMINISTRATION. 3 hrs. I or II, S.
Technical background of the fundamentals of school administration for the classroom teacher; West Virginia School System emphasized; teacher participation in administration with attention to ethics, retirement, salary, and tenure. Not acceptable in administrative programs and not open to students who have completed Education 601.
610. THE CURRICULUM IN THE MODERN SCHOOL. 3 hrs. I or II, S.
Curricular development in elementary and secondary schools; attention given to procedures for examining, evaluating, and revising existing curricular programs.
Course content is adjusted to the needs of either elementary or secondary school principals.

611. PRACTICUM IN THE TEACHING OF READING IN THE SECONDARY SCHOOLS. 3 hrs. S.
Clinical experience in the teaching of reading for teachers in the secondary schools with emphasis on skills and understandings necessary for the teaching of remedial reading.
PR: Education 445 or 545.
612. AUDIO-VISUAL ADMINISTRATION AND SUPERVISION. 3 hrs. I or II, S.
Theory and practice related to financing, maintaining, and improving audio-visual programs, and to administrative and supervisory services, training, research, and public relations.
PR: Education 465 or 565 or a combination of Speech 532, Library Science 510 and Education 466 or 566.
613. ORGANIZATION AND ADMINISTRATION OF GUIDANCE PROGRAMS. 3 hrs. I or II, S.
Problems in planning and administering guidance programs in elementary and secondary schools.
614. COUNSELING TECHNIQUES. 3 hrs. I or II, S.
Techniques employed by the counselor with emphasis on interviews.
615. HISTORY OF EDUCATION IN THE UNITED STATES. 3 hrs.
Development of public and private educational systems in the United States.
616. ADVANCED STUDIES IN CHILD DEVELOPMENT. 3 hrs. I or II, S.
Nature of growth and environmental factors affecting child development.
- 617-618. FIELD COURSE IN CURRENT SCHOOL PROBLEMS. 3; 3 hrs.
Investigations in current problems of local schools; content determined by needs of students.
620. CONSERVATION EDUCATION. 3 hrs. S.
Basic conservation concepts and course content; the materials and methods for conservation teaching. Elements of soil, water, and human conservation are presented.
621. EDUCATIONAL RESEARCH AND WRITING. 3 hrs. I, II, S.
Investigative methods and techniques and their application.
625. SUPERVISION: SPECIAL EDUCATION PROGRAMS. 3 hrs. I, S.
Problems of supervision of programs for the mentally retarded. Preparation of budgets, state regulations, and school relationships.
PR: Education 520, 533, 540, 553.
626. DIAGNOSTIC—CLINICAL PRACTICES—SPECIAL EDUCATION. 3 hrs. I, S.
Team approach to diagnosis and treatment of exceptional children.
PR: Education 520, 533, 540, 553.
627. MEDICAL—PSYCHOLOGICAL ASPECTS OF EXCEPTIONAL CHILDREN. 3 hrs.
Theoretical and practical approach to identifying programming for atypical children. Community resources, from the medical, clinical, psychological and pathological fields, are utilized.
PR: Undergraduate degree with a major in Special Education.

628. REHABILITATION TECHNIQUES. 3 hrs.

The team approach to physical, mental, emotional and rehabilitation. Methods of identification and assessment; case study and referrals; follow-up procedures; vocational placement and VR-public school cooperative endeavors.

PR: Education 420, 433, or permission of the instructor.

629. SEMINAR IN SPECIAL EDUCATION. 3 hrs. II, S.

Research methods and current significant findings in special education. Guest speakers.

PR: Education 520, 533, 540, 553.

635. EVALUATION IN ELEMENTARY AND SECONDARY SCHOOLS. 3 hrs.

Procedures for evaluating effectiveness of a school program with emphasis on procedures other than formal tests.

640. LITERATURE OF EDUCATION. 1-3 hrs. I, II, S.

A program of reading, either extensive or intensive, and reports on a group of outstanding contributions to education; readings selected with guidance of adviser. Only one registration for Education 640 is permitted.

641. SEMINAR IN EDUCATION. 2-3 hrs.

A guided program of readings, reports and discussions. No student may register for this course a second time.

646. INDIVIDUAL INVENTORY TECHNIQUES. 3 hrs.

Techniques of collecting, recording, and interpreting data.

PR: Education 417-517 or 435-535.

647. OCCUPATIONAL INFORMATION TECHNIQUES. 3 hrs. S.

Techniques used in selecting, filing, and using materials pertaining to occupations.

648. ADVANCED STUDIES IN HUMAN ADJUSTMENT. 3 hrs.

Psychological foundations of personality development with emphasis on principles of mental hygiene as related to problems of everyday life.

649-650. SEMINAR IN COUNSELING. 3; 3 hrs.

Counseling tools and techniques, with emphasis on problem categories and patterns as related to the psychology of individual differences.

CR: 651 or consent of instructor.

651. PRACTICUM IN TESTING AND COUNSELING. 3 hrs. S.

Practical experience in testing and counseling under professional supervision.

PR: Education 614, 646, and 647. CR.: Education 649.

652. INVESTIGATIONS IN TEACHING OF ENGLISH IN SECONDARY SCHOOLS.

3 hrs.

Emphasis on specific problems in teaching of English rather than general techniques.

656. TEACHING OF THE LANGUAGE ARTS. 3 hrs.
Current methods and available materials for teaching handwriting, spelling, and oral and written expression.
657. TEACHING OF ARITHMETIC. 3 hrs.
Acquainting students with available materials and giving knowledge of the most widely accepted methods of instruction.
658. CLINICAL PRACTICE IN ARITHMETIC INSTRUCTION. 3 hrs.
Working with pupils under guidance; diagnosing, planning and putting into effect an instructional program for a limited number of pupils.
PR: Education 657.
667. TEACHING SOCIAL STUDIES IN SECONDARY SCHOOLS. 2-3 hrs. S.
Techniques for teaching social studies with suggestions for procurement and use of materials.
668. TEACHING THE BIOLOGICAL SCIENCES. 3 hrs. S.
Methods, materials and techniques for teaching biology using demonstrations and laboratory experiences, projects and reports, field trips, and audio-visual aids. Providing and maintaining equipment.
670. TEACHING SOCIAL STUDIES IN ELEMENTARY SCHOOLS. 3 hrs.
Materials and procedures for teaching social studies with emphasis on a survey of successful programs of instruction.
671. TEACHING SCIENCE IN ELEMENTARY SCHOOLS. 3 hrs.
Problems and methods of teaching science.
- 672-673-674. PRACTICE IN SUPERVISION, COURSE I, II, S. 3; 3; 3 hrs.
Practice of supervisory techniques presented in theory courses; sharing the responsibility for carrying forward a supervisory program in a school system.
675. SCHOOL LAW. 3 hrs.
The legal basis of education in the United States in constitutions, statutes, court decisions, and in administrative rulings and practices with some emphasis on West Virginia.
678. THE SUPERVISING TEACHER. 3 hrs.
Duties and responsibilities of the teacher who directs student teachers.
PR: Must have been, be, or be nominated as a supervisor of student teaching.
679. PROBLEM REPORT. 1-3 hrs. I, II, S.
The preparation of a written report on a research problem, experiment or field project in education. This report is not a thesis and students must complete an additional 33 hours unless 679 is followed by 681 for 3 hours of credit. (Education 679 applies toward administrative certification for only the students who received master's degrees in administration prior to June 1960 and to students who received master's degrees in programs other than school administration, but who are attempting to gain certification in administration).

681. THESIS. 3-6 hrs. I, II, S.

May be taken for 3 hours of credit by students whose reports in 679 were excellent and are of such a character to warrant further research. Students completing 679 and 681 for a total of 6 hours may qualify for the master's degree by earning an additional 26 hours of credit. Students seeking the master's degree in any phase of school administration must complete 681. Students completing 681 must defend their thesis in an oral examination.

ENGLISH

Professors Tyson, Brown, Mitchell

Associate Professor Williams

Graduate courses in English provide detailed consideration of authors, literary types, and periods in literary history, as well as English language history and linguistics. Students are expected to acquire a broad acquaintance with the whole range of English and American literature and the English language and to become thoroughly familiar with the forms of literature, critical standards, and the materials and methods of literary research.

Each student selects an area of literature as a specialty and concentrates on it as a part of his work. Suggested areas are drama, poetry, novel, American literature, Victorian period, the 18th century, etc. He may elect to write a thesis in his chosen area or demonstrate his knowledge of it in the comprehensive examination which is required of all candidates at the conclusion of the specified number of hours of work for the master's degree.

Students who major in English must have at least 15 undergraduate hours in English and American literature. Students taking English as a minor must have six hours credit in literature on the undergraduate level. Students with deficiencies may enroll for graduate work as special or provisional admission students but must take undergraduate courses suggested by the department before becoming candidates for degrees.

A minimum of six hours of college credit in a foreign language (or demonstrated reading ability) is required for unconditional admission to graduate study in English. Students who lack this minimum and are admitted provisionally must make up the deficiency prior to admission for candidacy.

English 630, Materials and Methods of Research, is required for a major in English and is offered twice during each year, once in the regular term, usually in the fall semester, and once in the summer session. This course must be scheduled among the first 12 hours of graduate study.

Graduate students in English should discuss their backgrounds and programs frequently with their advisers.

509. MILTON. 3 hrs.

Biographical and critical study, including Milton's English poetry and prose, and his literary and intellectual milieu.

511. CHAUCER. 3 hrs.

Background and influences, with biographical and critical study.

513. ENGLISH NOVEL TO 1800. 3 hrs.
Defoe, Richardson, Fielding, Smollett, and Sterne, with supporting study of their most important predecessors and contemporaries.
514. NINETEENTH CENTURY ENGLISH NOVEL. 3 hrs.
Austen, Scott, the Brontes, Eliot, Dickens, Thackeray, Trollope, Meredith, Hardy, Butler, Wilde, and their contemporaries.
517. ENGLISH DRAMA TO 1642. 3 hrs.
Non-Shakespearean English drama from its beginnings to the closing of the theatres.
533. CONTEMPORARY ENGLISH POETRY. 3 hrs.
Principal poetry since the Victorian period.
534. CONTEMPORARY AMERICAN POETRY. 3 hrs.
Principal poetry since 1900.
536. EARLY AND MEDIEVAL LITERATURE. 3 hrs.
Nondramatic English literature, exclusive of Chaucer, including Old English prose and poetry, early ballads and lyrics, metrical and prose romances, and the works of Langland and Malory.
542. AMERICAN NOVEL TO 1900. 3 hrs.
Historical and critical study from the beginnings.
544. EMERSON, POE, WHITMAN. 3 hrs.
Prose and poetry of these writers in their literary and intellectual milieu.
546. DRAMA OF THE RESTORATION AND 18TH CENTURY. 3 hrs.
Trends, movements, and dramatic types in the English theatre of this period.
547. ENGLISH ROMANTIC POETS. 3 hrs.
Emphasis on Blake, Wordsworth, Coleridge, Byron, Shelley, and Keats.
555. LITERARY CRITICISM. 3 hrs.
Historical study, with application of principles.
560. ENGLISH LITERATURE FROM 1660 TO 1745. 3 hrs.
Dryden, Swift, Pope, and their contemporaries.
561. ENGLISH LITERATURE FROM 1745 TO 1800. 3 hrs.
Major literature of the Age of Johnson.
570. 20TH CENTURY LITERATURE. 3 hrs.
Representative genres, British and American.
575. INTRODUCTION TO LINGUISTICS. 3 hrs.
The structural and descriptive approach to study of the English language.
- 580-581-582-583-584-585-586-587-588-589-590. SPECIAL TOPICS.
1-4; 1-4; 1-4; 1-4; 1-4; 1-4; 1-4; 1-4; 1-4; 1-4 hrs.

600. SHAKESPEARE. 3 hrs.
Intensive reading of Shakespeare's plays. Problems of Shakespearean scholarship.
601. FOLK AND POPULAR LITERATURE. 3 hrs.
A study of types, variants, backgrounds, and influences.
603. CHILDREN'S LITERATURE. 3 hrs.
Intensive reading of recent works in the field and evaluation of current trends.
610. READINGS IN ENGLISH AND AMERICAN LITERATURE. 2-3 hrs.
Independent reading in a field not covered by regularly scheduled courses. Limited to English majors who have been admitted to candidacy.
PR: Prior approval by department chairman.
615. VICTORIAN POETRY. 3 hrs.
Emphasis on Tennyson, Browning, Arnold, Hopkins, Hardy, and the Pre-Raphaelites.
616. ESSAYISTS OF THE 19TH CENTURY. 3 hrs.
Chief English nonfictional prose writers of the century.
620. CONTEMPORARY DRAMA. 3 hrs.
Major British and American dramatists since 1870.
621. CONTEMPORARY NOVEL. 3 hrs.
Major 20th century novelists, principally British and American.
630. MATERIALS AND METHODS OF RESEARCH. 3 hrs.
Instruction and practice in scholarly literary research. Required among first 12 hours of course work and prior to admission to candidacy for the M.A. degree in English.
631. HISTORICAL ENGLISH GRAMMAR. 3 hrs.
Present-day grammatical structure in the light of historical evolution.
632. HISTORY OF ENGLISH WORDS. 3 hrs.
Historical development of the modern English vocabulary.
679. PROBLEM REPORT. 1-3 hrs.
681. THESIS. 1-6 hrs.

GEOGRAPHY

Professors Clagg, Britton

The undergraduate prerequisite for a graduate major is 12 semester hours of geography. For undergraduate social science majors three semester hours of work in another field closely related to geography may be accepted toward meeting the 12-hour requirement for admission.

Graduate work in geography is for people in public school work, those who wish to prepare for work in industry or government service, and for those who plan to continue to the doctoral level.

Before recommending the student for admission to candidacy for the master's degree, the department may require a qualifying examination.

Students who major in geography must complete not fewer than 24 hours in the major field. At least one-half of the hours must be earned in 600 series courses.

A major must include:

| | |
|-------------------------|--------|
| 529 and 530 | 6 hrs. |
| 505 or 605 | 3 hrs. |
| 603 | 3 hrs. |
| 602 or 604 or 608 | 3 hrs. |
| 620 | 3 hrs. |
| 606 or 609 | 3 hrs. |

501. HISTORICAL GEOGRAPHY OF THE UNITED STATES. 3 hrs.

Study of coastal settlements, the population spread through Appalachia and the Mississippi Valley, and the development of intermountain and Pacific Coast centers.

503. ECONOMIC GEOGRAPHY OF ASIA. 3 hrs.

Special attention given activities and environment in continental countries and nearby islands.

505. WORLD POLITICAL GEOGRAPHY. 3 hrs.

Survey of international relations showing influence of economic-environmental adjustments, stressing studies of countries of North America, Europe, and Asia.

508. GEOGRAPHY OF MEXICO. 3 hrs.

Regional study of the relation of man's activities to natural environment.

509. GEOGRAPHY OF CANADA. 3 hrs.

Regional study of the relation of man's activities to natural environment.

510. URBAN GEOGRAPHY. 3 hrs.

Study of numerous cities of the world, with local field survey made.

512. GEOGRAPHY OF SOVIET LANDS. 3 hrs.

Russian agriculture, grazing, mining, industry, and transportation explained in environmental terms.

513. GEOGRAPHY OF BRITISH ISLES. 3 hrs.

Climate, minerals, and land forms checked in explaining economic activities.

520. FIELD GEOGRAPHY OF WEST VIRGINIA. 3 hrs.

Type areas in lumbering, mining, agriculture, and industry checked through field methods.

525. CLIMATOLOGY. 3 hrs.

Causes and results of regional weather of the world studied.

529. MAP INTELLIGENCE AND PROJECTIONS. 3 hrs.
Principles and practice in construction of map grill, use of drafting equipment, and understanding of earth features as shown on a map.
530. APPLIED CARTOGRAPHY. 3 hrs.
Map making with regard to projection selection, source materials, compilation, restitution, and photo revision.
601. PROBLEMS IN GEOGRAPHY OF THE FAR EAST. 3 hrs.
Agriculture, industry, transportation, and trade of selected regions in eastern Asia and the islands of the western Pacific Ocean.
602. PROBLEMS IN GEOGRAPHY OF EUROPE. 3 hrs.
Consideration of problems in selected countries following a geographical review.
603. PROBLEMS IN GEOGRAPHY OF NORTH AMERICA. 3 hrs.
Relationship of human activities to natural environment in selected regions.
604. PROBLEMS IN GEOGRAPHY OF LATIN AMERICA. 3 hrs.
Problems studied in each country following geographical review.
605. GEOGRAPHY IN WORLD POLITICAL AFFAIRS. 3 hrs.
Key nations of world studied in light of significance of geographic items and their effects on international relations.
606. FIELD PROBLEMS IN GEOGRAPHY OF THE TRI-STATE AREA. 3 hrs.
607. PROBLEMS IN WORLD ECONOMIC GEOGRAPHY. 3 hrs.
Problems of world exchange of outstanding trade items.
608. PROBLEMS IN GEOGRAPHY OF AFRICA AND AUSTRALIA. 3 hrs.
Selected regions studied in both continents.
609. GEOGRAPHICAL RESEARCH. 3 hrs.
Research methods stressed with special attention given to a consideration of the literature of the field.
620. CONSERVATION EDUCATION. 3 hrs.
Presents elements of conservation education in the specific areas of soil, water, and human conservation.
679. PROBLEM REPORT. 1-3 hrs.
681. THESIS. 1-6 hrs.

GEOLOGY

Professor Janssen

505. EARTH SCIENCE. 4 hrs. S.
Nature of the earth, geologic agents and processes, land forms and erosion, rocks, minerals, and fossils. Recommended for teachers in secondary schools. Field trips. Not open to students who have had Geology 200. 3 lec-2 lab.

518. PALEONTOLOGY. 3 hrs. I, S.

Nature and origin of plant and animal fossils; development and evolution of life, its dominant forms through the geologic ages. Recommended for biological science majors.

PR: Geology 201, or Zoology 212, or graduate status.

522. ECONOMIC GEOLOGY. 3 hrs. II.

Nature, origin, occurrence and distribution of the world's commercially valuable and useful mineral and rock resources.

PR: Geology 201 or graduate status.

551. GEOMORPHOLOGY. 3 hrs. II, S.

Geology nature, origin, and classification of the world's land forms as resulting from their structural, orogenic, and erosional history.

PR: Geology 200 or 405 or graduate status.

HISTORY

Professors Heath, Moffat, Wilkins

Assistant Professor Ross

All students working toward the master's degree with a major in history must take one or more of the following courses which emphasize use of material and methods of research: 516, 525, 526, 633, 634.

502. AMERICAN DIPLOMACY. 3 hrs.

Foreign relations from colonial days to the present; premised on a knowledge of general history, a specialized, somewhat detailed account of the aims and actions of the executive and legislative departments to defend our nation's interests and of the consequences of their efforts.

518. EUROPEAN DIPLOMACY. 3 hrs.

Particular attention is given to the period since the French Revolution. Diplomatic background of the growth of major continental nations. Diplomatic relations with non-European nations in the twentieth century is emphasized.

521. THE ERA OF THE RENAISSANCE AND REFORMATION. 3 hrs.

The impact of the Renaissance upon esthetic, economic, and political developments especially in the 15th and 16th centuries. The decline of Catholicism and the growth of the Protestant movement, the influence of the two movements upon each other is stressed.

522. THE FRENCH REVOLUTION AND THE NAPOLEONIC ERA. 3 hrs.

Society and government in Europe before the French Revolution and the influence of the Enlightenment; ideas and changes introduced by the Revolution and Napoleon and their effect on the institutions and economy of Europe.

525. EUROPEAN HISTORY 1814-1914. 3 hrs.

A century of European political, economic, and social history. Its relationship to and influence upon the history of other world areas is noted. The impact of imperialistic rivalry is emphasized.

526. EUROPEAN HISTORY 1914-PRESENT. 3 hrs.

The impact of World War I upon Europe, the era between two wars. The search for world peace, World War II and its aftermath are major topics of consideration.

527. RUSSIA IN THE 19TH AND 20TH CENTURIES. 3 hrs.

Russia under the Czars, the impact of serfdom, the essential failure of reforms, the revolutions and the Communist era stressing the effect of Communism on the world. Emphasis is on modern Russian foreign policy.

532. THE UNITED STATES SINCE 1914. 3 hrs.

The United States since the outbreak of the First World War in 1914.

605. SOCIAL AND ECONOMIC PROBLEMS OF AMERICAN COLONIES. 3 hrs.

English colonization in North America during the 17th and 18th centuries, with emphasis on political ideas and institutions, economic developments, social change and conflict.

606. SOCIAL AND ECONOMIC PROBLEMS OF THE NATIONAL PERIOD, 1789 TO 1865. 3 hrs.

The non-military and non-political aspects of the nation during the early laissez-faire period of the Industrial Revolution.

608. THE AMERICAN CIVIL WAR AND RECONSTRUCTION. 3 hrs.

The Civil War and the Reconstruction Era that followed.

610. READINGS IN HISTORY. 2-3 hrs.

These are readings in topics fitted to the need of the individual student. They may deal with any graduate area. This course is ordinarily restricted to off-campus students and is used sparingly.

612. AMERICAN LEADERS TO 1865. 3 hrs.

A chronological and biographical account of the major political figures of the nation from the organization of the government in 1789 to the end of the war to preserve it in 1865; a study of characters against the background of the events they helped to shape.

613. HISPANIC AMERICA. 3 hrs.

A detailed history of Hispanic America with emphasis on the economic and cultural relations of the Central and South American countries with the United States and with countries of the eastern hemisphere.

614. AMERICAN REVOLUTIONARY PERIOD, 1760-1789. 3 hrs.

American society and British policy on the eve of the American Revolution; debates on political principles and growth of revolutionary movements; war and social adjustments; diplomatic problems and the framing of new governments.

615. AMERICAN LEADERS SINCE 1865. 3 hrs.

A continuation of History 612. The impact of outstanding men upon American history from 1865 to the present time.

617. **THE TRANS-ALLEGHENY FRONTIER.** 3 hrs.
A survey of the significance of the frontier in American history.
618. **HISTORIOGRAPHY AND METHODOLOGY.** 3 hrs.
Survey of literature and practical experience in methods and sources of history through bibliographical study and research papers. Recommended for senior history majors and students beginning graduate work in history.
619. **REPRESENTATIVE HISTORIANS AND THEIR WORKS.** 3 hrs.
A general study of significant historians and their works from Herodotus to Toynbee.
621. **THE VICTORIAN PERIOD IN ENGLAND.** 3 hrs.
The impact of the Industrial Revolution upon the Victorian Compromise, the growth of modern imperialism as exemplified by England and the background of World War I.
622. **THE FAR EAST IN THE 20TH CENTURY.** 3 hrs.
Begins with the Sino-Japanese War and stresses the rise of Japan to the position of a world power.
633. **PROBLEMS IN AMERICAN HISTORY SINCE 1877-1917.** 3 hrs.
A research course in which the student probes a selected problem within the chronological span, 1877-1917.
634. **PROBLEMS IN AMERICAN HISTORY SINCE 1917.** 3 hrs.
A research course in which a student probes a selected problem within the period since 1917.
679. **PROBLEM REPORT.** 1-3 hrs.
681. **THESIS.** 1-6 hrs.

HOME ECONOMICS

Professor Bennett

Associate Professors Neely, Strouss

See Home Economics-Education Program Listed Under Education

500. **CONSUMER PROBLEMS OF THE FAMILY.** 3 hrs.
Current aspects relating to purchase of goods and services to meet needs and wants of individuals and families.
503. **ADVANCED NUTRITION.** 3 hrs. I.
Metabolism of foods as related to nutritional requirements of man. Reports of current research and other topics to add depth and perspective in nutrition.
PR: Home Economics 203, 210 and Chemistry 104.
505. **QUANTITY FOOD SERVICE.** 3 hrs. II.
Experience in application of food preparation principles to quantity food production; menu planning and purchasing; cost control; operation of equipment; service to the public.
PR: Home Economics 110 and 203 or consent of instructor.

507. INSTITUTIONAL MANAGEMENT. 3 hrs.
Administration of food service in institutions.
513. EXPERIMENTAL COOKERY. 3 hrs.
Experimental study of chemical and physical factors affecting food preparation.
PR: Home Economics 110 and 203, Chemistry 103 and 104.
515. FAMILY RELATIONSHIPS. 3 hrs. I.
Relationships in the family during its life cycle, with some consideration of family life in other cultures.
516. PRENATAL AND INFANT CARE. 3 hrs. II.
Prenatal and postnatal care for mothers, development of the infant from before birth to two years of age.
519. TAILORING. 3 hrs. I.
Contemporary methods of custom tailoring with emphasis on selection of suitable fabrics and construction processes for particular styles.
PR: Home Economics 329 or consent of instructor.
520. HOUSEHOLD EQUIPMENT. 3 hrs. I, II.
Principles underlying the selection, use, and care of household equipment.
540. NUTRITION IN THE HOME AND SCHOOL. 3 hrs. I, S.
Fundamental principles of human nutrition and their application in the home and school. Designed primarily for elementary teachers. (Not open to Home Economics majors)
554. PROBLEMS IN HOME FURNISHINGS. 3 hrs. I, II.
Design and construction of curtains, draperies, and slipcovers with emphasis on selection for specific needs; furniture restoration and re-finishing.
PR: 354 or consent of instructor.
- 581-582-583-584-585. WORKSHOP. 2-3; 2-3; 2-3; 2-3; 2-3 hrs. S.
Workshop in selected areas of home economics. Credit for more than two workshops may not be counted for the master's degree.
605. RECENT DEVELOPMENTS IN CLOTHING. 3 hrs. S.
Survey of recent literature and theory in the field of clothing.
606. RECENT DEVELOPMENTS IN FOODS. 3 hrs. S.
Survey of recent literature and theory in the field of foods.
679. PROBLEM REPORT. 1-3 hrs.
681. THESIS. 1-6 hrs.
- 684-685. SPECIAL PROBLEMS IN HOME ECONOMICS. 1-3; 1-3 hrs. I, II, S.
Problems of particular interest to the graduate student. Registration by permission of adviser. Not more than four hours credit in Special Problems may be counted toward a master's degree.

- 690-691. SEMINAR. 1-3; 1-3 hrs. S.

Extensive readings and reports from current literature in selected areas of home economics. Not more than four hours of seminar credit may be counted toward a master's degree.

Home Economics Education

506. METHODS IN ADULT HOME ECONOMICS EDUCATION. 3 hrs. I.

Psychology of adult learning. Philosophy, types of programs to include organization, methods, techniques, and leadership training in working with adult groups.

600. PHILOSOPHY AND TRENDS IN HOME ECONOMICS EDUCATION. 3 hrs.

Home economics in the education program: elementary, secondary, higher education and adult levels.

601. EVALUATION IN HOME ECONOMICS. 3 hrs.

A course planned for secondary and college teachers in procedures for the appraisal of student progress in home economics and the evaluation of programs in home economics.

602. CURRICULUM DEVELOPMENT IN HOME ECONOMICS. 3 hrs.

A study of needed revisions of curriculum necessitated by changing family needs in present day society and new developments in the total educational process.

603. SUPERVISION OF STUDENT TEACHING IN HOME ECONOMICS. 3 hrs.

A study of administration, supervision, evaluation, and responsibility of supervising teachers.

PR: Open to home economics teachers who meet the minimum requirements for supervising teachers and have been recommended to serve as supervising teachers.

JOURNALISM

Professor Pitt

527. JOURNALISTIC ENGLISH. 3 hrs. I.

In addition to an examination of the language of the mass communicator, students are required to do collateral reading or investigate specific areas of mass communications. Primarily for teachers interested in a minor or electives in journalism.

528. HIGH SCHOOL PUBLICATIONS. 3 hrs. II.

An investigation of the function of school publications and an analysis of editorial content. Students are required to do collateral reading or examine specific areas of school publications. The course is for teachers interested in a minor or elective in journalism.

- 530-531. MAGAZINE ARTICLE WRITING. 3; 3 hrs. I, II.

The fundamentals, principles, techniques of gathering factual information and preparing articles for publication in magazines.

PR: English Composition or its equivalent.

LIBRARY SCIENCE

Associate Professor Theis

Requirements for the school librarianship curriculum are listed as Program E under "Teacher-Education Curricula."

501. HISTORY OF BOOKS AND LIBRARIES. 3 hrs I or II, S.

Overview of library development from classical world to the present as well as a survey of the development of books, printing, and writing.

504. BOOK SELECTION FOR CHILDREN. 3 hrs. I, S.

Survey of the development of children's literature with emphasis on modern books; evaluation of the aids and standards for selection of books and materials in this area; techniques of determining reading levels and study of reading skills; study and comparison of the work of illustrators of children's books and various editions of individual titles with emphasis on story-telling.

505. BOOK SELECTION FOR ADOLESCENTS. 3 hrs. II, S.

Survey of books and other materials for adolescents and young adults correlated with the school program in all subject areas; evaluation of books with aids and criteria for selection; techniques of reading guidance, including determination of reading levels and study of reading skills; book talks, book reviews and book notes.

510. FOUNDATIONS OF MASS COMMUNICATIONS. 3 hrs. II, S.

Survey of social and psychological causes and effects of reading and mass communications (newspapers, magazines, radio, motion pictures, television) with reference to their importance to the school librarian.

550. LIBRARY PRACTICE (FIELD WORK). 3 hrs. I, II, S.

Experience in the application of techniques of library service, adapted to the student's needs. Experiences in Laboratory School and affiliated schools.

PR: Fifteen hours of library science.

An application for permission to enroll in this course *must be filed* with the Dean of the Graduate School a minimum of five weeks prior to the beginning of the semester or term in which the student wishes to enroll for the course. *Accepted* applicants will be notified of their acceptance.

582-583-584-585. SPECIAL TOPICS. 1-4; 1-4; 1-4; 1-4 hrs. S.**604. READING GUIDANCE. 3 hrs. II, S.**

Study of current research on reading interests and habits of young people and adults; methods of relating readers and materials.

607. THE LIBRARY AND THE CURRICULUM. 3 hrs. I, S.

Survey of elementary and secondary school curricula with emphasis on materials which enrich the teaching of various subjects.

610. ADMINISTRATION AND OPERATION OF LIBRARIES. 3 hrs. S.

Introduction to the fundamental processes and activities of various types of libraries, including the purposes and relationships of routines and records.

615. ADVANCED REFERENCE. 3 hrs. I, S.
Study of specialized reference tools.
PR: Library Science 315.
620. ADVANCED CATALOGING AND CLASSIFICATION. 3 hrs. S.
The Library of Congress and Dewey Decimal classification systems.
Practice given in detailed descriptive and subject cataloging of special materials.
PR: Library Science 320.
621. INTRODUCTION TO RESEARCH IN LIBRARY SCIENCE. 3 hrs. S.
Materials and methods of bibliographic research.
625. THE LIBRARY IN THE COMMUNITY. 2 hrs. II, S.
Study of the problems relating to the interpretation of the library to its constituents and methods of handling these problems with emphasis on successful public relations programs.
630. TECHNICAL PROCESSES. 3 hrs. S.
Methods of acquisition, processing routines in preparation work, conservation and circulation of materials.
635. GOVERNMENT PUBLICATIONS AND SPECIAL MATERIALS. 3 hrs. S.
The form, production, distribution and subject content of official publications of state and national governments and of international agencies. Selection, acquisition, organization and use of these materials.
PR: Library Science 615.
640. READINGS IN LIBRARIANSHIP. 1-3 hrs. I, II, S.
Reading and reports on outstanding books in the field of library science. Only one registration in Library Science 640 permitted.

MATHEMATICS

Professors Bauserman, Hardman

Associate Professor Goins

Assistant Professor Thompson

Courses may be taken with approval of student's adviser and the instructor in the course.

527. ADVANCED CALCULUS. 4 hrs.
The number system, limits, sequences, partial differentiation with applications, maxima and minima of functions of several variables.
PR: Mathematics 221.
528. ADVANCED CALCULUS. 4 hrs.
Theory of definite integrals, multiple integrals, line and surface integrals, improper integrals, infinite series.
PR: Mathematics 427 or 527.
530. VECTOR AND TENSOR ANALYSIS. 3 hrs. I, II.
The algebra of vectors, the calculus of vectors with applications, introduction to tensor analysis.
PR: Mathematics 221.

536. PARTIAL DIFFERENTIAL EQUATIONS. 3 hrs I, II.

An exposition of methods used in solving partial differential equations with applications to geometry and topics in mathematical physics.

PR: Mathematics 335.

543. NUMERICAL ANALYSIS. 3 hrs. I, II.

The theory and technique of numerical computation involving interpolation methods, solution of systems of equations, and methods of solution of ordinary differential equations.

PR: Mathematics 335.

545-546. INTRODUCTION TO THEORY OF STATISTICS. 3; 3 hrs. I, II.

Probability spaces, random variables, and algebra of expectations; sampling methods; estimation of parameters; tests of hypotheses; analysis of variance.

PR: Mathematics 221.

548. FUNDAMENTAL CONCEPTS OF MODERN GEOMETRY. 3 hrs.

Finite geometries, basic background material for the modern development of Euclidean Geometry, other geometries.

549. PROJECTIVE GEOMETRY. 3 hrs.

Projective geometry using both synthetic and algebraic methods.

550. FUNDAMENTAL CONCEPTS OF MODERN ALGEBRA. 3 hrs.

Structure of the abstract mathematical systems: Groups, Rings, Fields, with illustrations and applications from Number Theory.

551. LINEAR ALGEBRA. 3 hrs.

Vector spaces over the real and complex field, the algebra of matrices, linear transformations in a vector space.

560-561. FUNCTIONS OF A COMPLEX VARIABLE. 3; 3 hrs. I, II.

Complex numbers, analytic functions, properties of elementary functions, integrals, series, residues and poles, conformal mapping.

PR: Mathematics 221.

MODERN LANGUAGES

Professors Martin, Lieberman, Perl

Associate Professors Noble, Parrish

French

535. 19TH CENTURY LITERATURE. 3 hrs.

The French romantic movement as exemplified in the poetry, drama, and the novel of the period.

PR: French 224 or equivalent.

536. 19TH CENTURY LITERATURE. 3 hrs.

Realistic and naturalistic fiction, realism in the theatre, and selected poems of Baudelaire, the Parnassians, and the Symbolists.

PR: French 224 or equivalent.

555-556. SPECIAL TOPICS. 2-4; 2-4 hrs.

A course for advanced students sufficiently prepared to do constructive work in phases of the language or literature of interest to them.

PR: Three hours of literature from courses numbered 327 or above and the consent of instructor.

German**507-508. GOETHE'S FAUST. 3; 3 hrs. On demand.**

Reading of "Faust" parts I and II. A presentation of the Faust legend. Goethe's life and works as related to "Faust".

PR: Graduate standing.

582-583. SPECIAL TOPICS. 2-4; 2-4 hrs. I, II.

PR: Six hours of 300 courses in German literature and approval of the instructor and the department chairman.

Spanish**510. SPANISH LITERATURE FROM THE CID TO THE 17TH CENTURY. 3 hrs. II.**

Readings, lectures, reports, and discussions in Spanish of significant literary works from the Cid to the 17th Century.

PR: Spanish 204.

585. THE MODERNIST MOVEMENT. 3 hrs. S.

The precursors of the Modernist Movement, its chief exponents, and its influence on the literature of Spanish America and Spain. Readings, lectures, discussions, and reports in Spanish.

PR: Two courses in Spanish beyond 204, one of which must be a course in Spanish or Spanish American literature.

588. ADVANCED SYNTAX AND STYLISTICS. 3 hrs. S.

A detailed analysis of Spanish syntax and shades of meaning, with the writing of original compositions in Spanish to perfect the student's own style.

PR: Two courses in Spanish beyond 204.

590-591. SPECIAL TOPICS. 2-4; 2-4 hrs. I, II.

Independent research in selected areas of Spanish and Spanish American literature that are not available in other courses in the catalog. The student has the opportunity to become familiar with leading authorities and bibliographies. Conferences and reports in Spanish.

PR: Three hours of literature from courses numbered 320 or above and permission of the department chairman.

612. SPANISH AMERICAN POETRY BEFORE MODERNISM. 3 hrs. II.

Leading poets and trends in thought and versification of the colonial, neoclassic, and romantic periods.

PR: Two courses in Spanish beyond 204, at least one of which must be a literature course.

620. SPANISH ROMANTICISM. 3 hrs. I.

The trends and characteristics of the Romantic Movement in the writings of its leading exponents in lyric poetry, non-dramatic prose, and the theatre.

PR: Two courses in Spanish beyond 204, at least one of which must be a literature course.

681. THESIS. 1-6 hrs.

MUSIC

Professor Kingsbury

Associate Professors Creighton, Davidson, Drescher, Imperi,

Jones, Lanegger, O'Connell, Shepherd, Wolff

Assistant Professors Balshaw, Bass

Students must have received a bachelor's degree from a recognized institution with a major in music or the equivalent. A conference may be required with the chairman of the Music Department as a part of the admission procedure. At this conference the conditions of admission are defined.

The program for a major in music is 32 hours and must include 18 hours in one of the following fields of music: Music History and Literature, Theory and Composition, Church Music, or Applied Music. A minimum of 6 hours is required in a subject other than music. The student will plan his program with his adviser.

(See Music-Education program listed under Education)

601a. SURVEY OF MUSIC LITERATURE. 3 hrs.

Comprehensive survey of solo, chamber, symphonic and choral literature; special emphasis given to analysis of style.

601b. SYMPHONIC LITERATURE. 3 hrs.

A survey of orchestra literature beginning with the 16th century; the Mannheim composers, Viennese classics, the Romanticists, the national schools, and late European, South American and American developments.

602a. ANCIENT, MEDIEVAL, AND RENAISSANCE MUSIC. 3 hrs.

Oriental and Greek music, Gregorian Chant, Troubadours and ars antiqua, ars nova, Flemish school; development of notation and styles. Renaissance: ecclesiastical and secular forms of composition.

602b. 17TH AND 18TH CENTURY MUSIC. 3 hrs.

Development of opera, oratorio, and cantata; beginnings of instrumental music. Baroque music, Bach, Handel, their forerunners and contemporaries. The "gallant" style. The development of sonata form, symphony, and canata. Haydn and Mozart.

603a. BEETHOVEN AND THE ROMANTIC MOVEMENT. 3 hrs.

A study and evaluation of Beethoven's principal works and the life and works of Schubert, Mendelssohn, Chopin, Schumann, Brahms, and their contemporaries.

603b. CONTEMPORARY MUSIC. 3 hrs.

Musical developments since Wagner. Debussy, Ravel, Stravinsky, Schoenberg, Bartok and their contemporaries. Particular emphasis given to contemporary American music.

604a. KEYBOARD LITERATURE. 2 hrs.

Survey and study of literature for harpsichord, clavichord and piano, covering their history, structure, interpretation, and aesthetic values.

604b. CHAMBER MUSIC LITERATURE. 2 hrs.

A survey of chamber music literature from the Baroque Era to the 20th Century. Analysis of form emphasized in the study of string quartet, trio, quintet, and various other combinations.

604c. SONG LITERATURE. 2 hrs.

The song literature of Germany, France, Italy, England, and America, as well as contemporary material from other countries; interpretation, song study, program building, and languages.

604d. CHORAL LITERATURE. 2 hrs.

A comprehensive study of choral composition beginning with sixteenth century, with special emphasis on music for school organizations.

605. INTRODUCTION TO MUSICOLOGY. 3 hrs.

A survey of the various fields of musicology with emphasis on basic research techniques, procedures, evaluation and criticism of styles and periods in music.

606. MUSIC OF THE CHURCH. 2 hrs.

Survey of the development of Church Music from early Christian era to present.

607. CONTEMPORARY CHURCH MUSIC. 2 hrs.

A stylistic study of trends in 20th century church music. Survey of representative composers and repertoire.

608. HYMNOLOGY. 2 hrs.

A study of the development of the Christian hymn, criteria for evaluation of hymnody, and study of present hymnals.

610. PHILOSOPHY OF MUSIC EDUCATION. 3 hrs.

Basic concepts of music education and their application to problems of music teaching, supervision, and administration.

611. PSYCHOLOGY OF MUSIC. 3 hrs.

A study of reactions to musical stimuli and the factors involved in the development of musical skills.

612. PROJECTS AND PROBLEMS IN MUSIC EDUCATION. 3 hrs.

Special problems and projects chosen by the student for investigation. Extensive study of a single problem or project in detail for use in schools.

613. TESTS AND MEASUREMENTS IN MUSIC. 3 hrs.

Principles and techniques of measurement in music.

614. THE TEACHING OF MUSIC APPRECIATION. 2 hrs.
Advanced methods and materials for teaching appreciation of music in grades 1-12.
615. BAND MANEUVERS AND PAGEANTRY. 2 hrs.
The marching band. The marching and musical problems which are encountered in training and operating a band for football games and other events involving marching and playing.
616. CURRICULUM CONSTRUCTION AND REVISION. 3 hrs.
Survey of recent developments in curriculum and their effect on music courses; consideration of various methods of determining and stating curriculum content. Preparation of a detailed course of study in a specific area of music education by each student.
617. SEMINAR IN MUSIC EDUCATION. 3 hrs.
An advanced study of basic concepts of current problems in music education.
- 618a. ADMINISTRATION OF INSTRUMENTAL MUSIC. 3 hrs.
The planning and operation of the instrumental program and the details of programming the work in a school system.
- 618b. ADMINISTRATION OF CHORAL MUSIC. 3 hrs.
Organization for tryouts and selection of members, rehearsal schedules, and all detailed arrangements for school, public, and radio rehearsals and concerts as well as other problems of rehearsals and performances.
- 619a. SEMINAR IN VOCAL PEDAGOGY. 2 hrs.
Problems in the teaching of voice production; diagnosis, breath control, resonance, diction, repertory, and interpretation. For teachers of voice, supervisors of school music, and choir directors.
- 619b. SEMINAR IN PIANO PEDAGOGY. 2 hrs.
A comparative study of several pedagogical methods and open discussions on various facets of piano teaching, including papers covering important phases of teaching as well as demonstrations in class and private teaching. Materials and repertoire included.
- 619c. SEMINAR IN CHURCH MUSIC. 3 hrs.
A basic course dealing with the problems and practices in Church Music. Projects are assigned to fulfill individual needs of students.
- 620a. INSTRUMENTAL WORKSHOP. 2 hrs.
Problems of the instrumental teacher at all levels; practical work in the techniques of handling beginning classes and ensembles of all types.
- 620b. CHORAL WORKSHOP. 2 hrs.
Review of available materials for high school and junior high school levels and actual performance of chosen selections to give each student opportunity at singing, conducting, and discussion; also music for church and radio.

625a. WOODWIND TECHNIQUES. 1 hr.

Advanced instrumental techniques courses designed to strengthen the student's playing-teaching knowledge of the various band and orchestra instruments, with the main emphasis on the teaching problems, including private lessons, class lessons, seminars, and a term paper on teaching problems. Not more than two semester hours on any one instrument nor more than a total of four in this area apply toward a degree.

625b. WOODWIND TECHNIQUES. 1 hr.

626a. BRASS TECHNIQUES. 1 hr.

626b. BRASS TECHNIQUES. 1 hr.

627a. STRING TECHNIQUES. 1 hr.

627b. STRING TECHNIQUES. 1 hr.

628. PERCUSSION TECHNIQUES. 1 hr.

629a. CHORAL CONDUCTING AND INTERPRETATION. 2 hrs.

A thorough study and analyzation of choral works chosen from the Renaissance, classical, Baroque and Romantic periods with direct application of choral techniques to actual performance. Mainly a capella music with some emphasis on the Madrigal. Rehearsals of performing groups included in assignment.

629b. CHORAL CONDUCTING AND INTERPRETATION. 2 hrs.

Continuation of 629a covering late Romantic and Modern choral works for the a capella and accompanied choir as well as major choral works with orchestra. Experience gained as assistant conductors with the performing choirs.

630a. INSTRUMENTAL CONDUCTING AND INTERPRETATION. 2 hrs.

The special problems involved in conducting and training instrumental groups at all levels.

630b. INSTRUMENTAL CONDUCTING AND INTERPRETATION. 2 hrs.

A continuation of 630a.

640a. MUSIC THEORY. 3 hrs.

Advanced study and drill in correlated theory including ear training, melodic dictation, harmonic dictation, sight singing and part writing with application for school music teachers.

640b. MUSIC THEORY. 3 hrs.

Continuation of Music 640a.

641. ADVANCED COUNTERPOINT. 3 hrs.

An intensive study of contrapuntal techniques, styles, and forms through composition and analysis.

645a. ORIGINAL COMPOSITION. 2 hrs.

645b. ORIGINAL COMPOSITION. 2 hrs.

646a. ADVANCED CHORAL ARRANGING. 2 hrs.

Techniques of choral composition and arranging with emphasis on the mixed choir. Arrangements and original works sung by choral groups and conducted by students.

646b. ADVANCED CHORAL ARRANGING. 2 hrs.

Continuation of 646a with emphasis on arranging for male and female voices and usual combinations with final work including original or arrangement for choir and band, orchestra, or organ, to be rehearsed and conducted by student either in performance or workshop.

647a. ADVANCED BAND ARRANGING. 2 hrs.

A study of the scoring for modern concert band, the transcription of works for other media as well as original works; analysis of band literature, harmonic and formal.

647b. ADVANCED BAND ARRANGING. 2 hrs.

A continuation of 647a.

648a. ADVANCED ORCHESTRA ARRANGING. 2 hrs.

648b. ADVANCED ORCHESTRA ARRANGING. 2 hrs.

649. DANCE BAND ARRANGING. 2 hrs.

A study of the special techniques involved in scoring for the contemporary dance band, including harmony used, voicing of the various instruments, and a study of current practices.

650. ACOUSTICS OF MUSIC. 2 hrs.

Review of physical laws underlying music. The physical basis of musical tones; objective causes of harmony and dissonance; design and operation of musical instruments; theory of intervals and scales; acoustical problems of music rooms and concert halls; problems of amplifying, reproducing, and recording music.

670. ADVANCED MATERIALS AND METHODS (GRADES 1-6). 3 hrs.

A comprehensive survey of available materials in singing, reading, listening, rhythm, and creating program of school music for the elementary grades; use of such materials in the methodology of teaching.

675. CREATIVE ACTIVITY FOR CHILDREN. 3 hrs.

Ways of using creative activity in the music program, methods of presenting creative song writing, rhythms, instrument construction, instrumental expression, dramatization, program building.

676. RESEARCH TECHNIQUES AND WRITING. 3 hrs.

679. PROBLEM REPORT. 1-3 hrs.

681. THESIS. 1-6 hrs.

Applied Music

- 682a, b, c, d. FLUTE. 1-2 hrs.
 683a, b, c, d. OBOE. 1-2 hrs.
 684a, b, c, d. CLARINET. 1-2 hrs.
 685a, b, c, d. BASSOON. 1-2 hrs.
 686a, b, c, d. FRENCH HORN. 1-2 hrs.
 687a, b, c, d. TRUMPET. 1-2 hrs.
 688a, b, c, d. TROMBONE. 1-2 hrs.
 689a, b, c, d. BARITONE. 1-2 hrs.
 690a, b, c, d. TUBA. 1-2 hrs.
 691a, b, c, d. VIOLIN. 1-2 hrs.
 692a, b, c, d. VIOLA. 1-2 hrs.
 693a, b, c, d. CELLO. 1-2 hrs.
 694a, b, c, d. STRING BASS. 1-2 hrs.
 695a, b, c, d. PIANO. 1-2 hrs.
 696a, b, c, d. VOICE. 1-2 hrs.
 697a, b, c, d. ORGAN. 1-2 hrs.

Miscellaneous

- 572-573-574-575. SPECIAL TOPICS. 1-4; 1-4; 1-4; 1-4 hrs.

PHILOSOPHY

Professor Slaatte

Associate Professor Jennings

Assistant Professor Plott

Courses may be taken without prerequisites with approval of student's adviser and instructor of the course.

510. PHILOSOPHICAL SOURCES OF AMERICAN CULTURE. 3 hrs. S. Alternate years.

Attention to thinkers most influential on American ideals and beliefs in religion, science, morality, politics, economics and education.

511. JOHN DEWEY: PHILOSOPHER AND EDUCATOR. 3 hrs. S. Alternate years.

Exposition of Dewey's philosophy and a comparative approach to his educational theory and influence.

519. RELIGIOUS THOUGHT IN THE WESTERN WORLD. 3 hrs. II, S.

A historical approach to the philosophies of religion in the western world, including a comparative analysis of leading contemporary types.

PHYSICAL EDUCATION**(HEALTH EDUCATION, RECREATION AND SAFETY EDUCATION)**

Professors Fitch, Gaynor, Josephs, McDonough

ADMISSION

Students in Health and Physical Education must:

1. Have completed an undergraduate major in Health and/or Physical Education at an accredited institution, or must demonstrate adequacy by course credit or by examination.
2. Receive the approval of the Graduate Committee of the Physical Education Department for admission to the department.

560. **EDUCATION FOR PERSONAL AND FAMILY LIFE.** 2-3 hrs.

Developments of programs concerned with sex-character education in schools and other agencies.

565.* **TESTS AND MEASUREMENTS IN HEALTH AND PHYSICAL EDUCATION.** 3 hrs.

The nature and purpose of measurement and evaluation in health and physical education. Evaluation of available tests and practice in administration of tests. Lectures and laboratory work.

575. **PRINCIPLES AND TECHNIQUES FOR RECREATION LEADERSHIP.** 3 hrs.

Leadership and its application to recreation, and an analysis of leadership techniques.

Emphasis on methods and materials applicable to planning and directing various types of activities in recreational situations.

582-585. **SPECIAL TOPICS.** 1-3 hrs.

PR: Approval by department chairman and instructor.

586. **WORKSHOP IN PHYSICAL EDUCATION.** 3 hrs.

Subject matter to be determined and described prior to the presentation of each workshop.

590. **PROBLEMS AND PRACTICES IN TRAFFIC SAFETY AND DRIVER EDUCATION.** 2 hrs.

A survey course for supervisors of traffic accident prevention programs. Examines and evaluates problems, attitudes, activities, and administrative practices in school, city, and state traffic safety programs. Supplements basic teacher-training courses in driver education.

600. **DANCE COMPOSITION IN EDUCATION.**

Extended work in individual and group composition or choreography. Includes a study of methods, curricular materials and evaluation procedures.

605. **CAMP COUNSELING.** 3 hrs.

Discussion of types of camps, objectives of camping, principles and practices in program making. Evaluation activities, description of programs, policies, health and safety problems.

*Required.

606. **CAMP PROGRAMS FOR THE HANDICAPPED CHILD.** 2 hrs.
A study of camp procedures for the handicapped and practice in the development of camp programs for atypical individuals.
621. **FUNDAMENTAL SCIENCES APPLIED TO PHYSICAL EDUCATION.** 3 hrs.
Analysis of the sciences in terms of their application to the improvement of body functions and general well-being. Emphasis is on interrelation of physics, anatomy, and physiology to better understand body mechanics and posture.
622. **PHYSICAL EDUCATION FOR THE ATYPICAL INDIVIDUAL.** 2 hrs.
A study of the principles and philosophies in the general organization and supervision of programs of physical education for the physically handicapped. The course includes field trips to hospitals, clinics, etc.
- 626.* **HISTORY AND PHILOSOPHY OF PHYSICAL EDUCATION.** 3 hrs.
The history and principles of physical education with application to general education, physiology, psychology, health and recreation.
An analysis of the historical forces and factors affecting physical education. Philosophical bases are developed from which basic principles are evolved as guides in the profession.
630. **PRINCIPLES OF HEALTH AND PHYSICAL EDUCATION.** 3 hrs.
Principles which have developed from the basic sciences and their relationship to health and physical education.
- 635.* **CURRICULUM CONSTRUCTION IN HEALTH AND PHYSICAL EDUCATION IN GRADES 1-12.** 3 hrs.
Principles, objectives, and procedures in curriculum construction of health and physical education programs. Typical programs studied and evaluated. Practice in curriculum construction for grades 1-12.
640. **ORGANIZATION AND ADMINISTRATION OF PROGRAMS IN HEALTH, PHYSICAL EDUCATION AND RECREATION.** 3 hrs.
A study of the responsibility of administrators for the direction, policies, procedures, and supervision of programs in health and physical education. Procedures in organization and administration in the various fields, problems of title, credit, space, classification of activities are considered in relation to various levels of school and the necessary routine procedures for effective administration.
645. **PROBLEMS OF SUPERVISION OF HEALTH AND PHYSICAL EDUCATION IN THE ELEMENTARY AND SECONDARY SCHOOLS.** 3 hrs.
Analyses of current problems in health and physical education, projects, readings and reports to meet the needs of students having special problems and problems of supervision in city, county, and state school systems.
650. **ADMINISTRATION OF SCHOOL AND COMMUNITY RECREATION.** 3 hrs.
The provision of adequate recreation services for schools and communities; standards and qualities of recreation services; methods of measuring existing services and their coordination and community organization procedures.
Theory and practice in the organization and administration of recreation programs with emphasis on supervision, study of facilities, equipment, and program content.

655-669. ADMINISTRATION OF SCHOOL ATHLETIC PROGRAMS. 1-5 hrs.

Interscholastic and intercollegiate sports programs; problems and practices in coaching and administrative procedures in promoting programs; controls; business management; safety responsibilities; and coaching techniques.

This course is divided into five separate one-hour credit units. Students may register for any or all units for one to five hours credit. The five one-hour units cover the following: Administration of the athletic programs; methods of coaching; prevention, care and treatment of athletic injuries.

670.* METHODS OF RESEARCH IN HEALTH AND PHYSICAL EDUCATION. 3 hrs.

The methods and tools of research and the ability to read, analyze and evaluate research in terms of its contribution to the fields of health and physical education.

681. THESIS.

Guidance and direction for the student in the preparation of an original research project. The development of the problem, the collection, analysis, and interpretation of the data, and the form of the research report are stressed. Prerequisites:

1. Tests and Measurements 565.
2. Methods of Research in Health and Physical Education 670.
3. Education Research 621.

POLITICAL SCIENCE

Professors Stewart, Harper

Associate Professor Perry

Assistant Professors Choi, Khayat

Graduate work in political science is for people engaged in public school work, those who wish to prepare for government service, and those who wish to begin advanced study in this field.

A candidate for the master's degree with a major in political science must have completed a minimum of 12 hours undergraduate work in the field. Courses in economics, geography, history, philosophy, and sociology are recommended for students who are preparing to do graduate work in political science. If a deficiency exists in basic courses in political science, these must be taken without graduate credit.

500-501-502-503-504. SPECIAL TOPICS. 3; 3; 3; 3; 3 hrs.

505. INTERNATIONAL ORGANIZATIONS. 3 hrs.

Special consideration given to the rise and development of international institutions, particularly the League of Nations and the United Nations.

506. INTERNATIONAL RELATIONS. 3 hrs.

The factors, forces and movements which affect the relations of nations. Special attention is given to the role of the United States in these relations.

507. FAR EASTERN POLITICS. 3 hrs.
Detailed discussion of the contemporary institutions and politics of China, Japan and other nations of the Far East.
508. POLITICS OF THE MIDDLE EAST. 3 hrs.
Detailed examination of the institutions and politics of such states as United Arab Republic, Turkey, Iran, Iraq, Jordan, Syria and Israel.
509. COMPARATIVE GOVERNMENTS: PARLIAMENTARY DEMOCRACIES. 3 hrs.
Origin, development, structure and current operations of the English, French, Swiss and other selected democratic governments; emphasis on the English system.
510. COMPARATIVE GOVERNMENTS: COMMUNIST DICTATORSHIPS. 3 hrs.
Detailed examination of the ideology, structure, and operations of the modern totalitarian state; emphasis on the Soviet Union.
525. EARLY POLITICAL THEORY. 3 hrs.
Political thought and philosophy from Plato to the 17th century.
526. RECENT POLITICAL THEORY. 3 hrs.
Political thought and philosophy from the 17th century to the present time.
540. POWER IN AMERICAN SOCIETY. 3 hrs.
A study of the distribution of power in American society at the community and national levels with emphasis on the methods employed by social scientists to portray the community and national power structures.
600. TRENDS IN AMERICAN CIVILIZATION. 3 hrs.
Political, economic, social, educational, and spiritual trends in American civilization. For teachers not interested in specialized courses.
601. READING IN POLITICAL SCIENCE. 2-3 hrs.
Readings to meet the needs and interests of individual students.
603. PROBLEMS IN AMERICAN NATIONAL GOVERNMENT. 3 hrs.
Contemporary problems, procedures, and trends in American National Government. Recommended for teachers.
604. AMERICAN POLITICAL IDEAS. 3 hrs.
Political ideas of representative American thinkers.
605. INTERNATIONAL LAW. 3 hrs.
Legal aspects of the relations between states.
606. AMERICAN CONSTITUTIONAL LAW. 3 hrs.
Study of cases and literature of American constitutional law.
611. LEGISLATIVE PROCESS AND LEGISLATIVE PROCEDURE. 3 hrs.
Principles, procedures, and problems of statute lawmaking in the United States at all levels of government.

617. NATIONAL ADMINISTRATION. 3 hrs.

Organization and function of national administrative departments, boards and commissions in their relation to other branches of the government.

621. MUNICIPAL ADMINISTRATION. 3 hrs.

Principles and methods of municipal administration in the United States.

624. ADMINISTRATION OF JUSTICE. 3 hrs.

Organization of courts in the United States, trends in the reorganization of judicial machinery, and improvement of judicial procedure.

648. PROBLEMS IN WEST VIRGINIA GOVERNMENT. 3 hrs.

Readings, lectures, and reports on contemporary governmental problems in West Virginia.

650-651. SEMINAR. Credit to be arranged.

To be offered in connection with courses listed above.

679. PROBLEM REPORT. 1-3 hrs.

681. THESIS. 1-6 hrs.

PSYCHOLOGY

Professors Ward, Loemker, Wolf

Applicants for admission to graduate study in psychology must present a minimum of twelve hours in undergraduate psychology courses which should include courses in psychological statistics and experimental psychology. Scores on a graduate study aptitude test may be requested.

Before recommending the student for admission to candidacy for the master's degree, the department may require a qualifying examination.

The thesis is a requirement for the master's degree in psychology. The student must follow the general regulation for registration for Thesis 681 described under "Thesis."

In the final comprehensive examination, all candidates are responsible for information in the following areas:

Basic principles and concepts of psychology.

History and systems of psychology.

Basic research methods in psychology, including statistics.

Psychological test theory and methods; clinical procedures.

Under certain conditions a minor may not be required.

506. MENTAL ABILITIES: TEST INTERPRETATION. 3 hrs. I, S.

The nature of intelligence; interpreting mental test data.

PR: Psychology 223, 311; for education majors, Education 435 or 535 and consent of instructor.

508. PSYCHOLOGY OF ABNORMAL BEHAVIOR. 3 hrs. II.

A bio-social approach to the nature, conditions, and modification of ineffective human behavior.

PR: Psychology 311.

516. **PSYCHOLOGY OF LEARNING.** 3 hrs. II.
Critical study of the major theories of learning and the related research.
PR: Twelve hours of psychology, including Psychology 323 or its equivalent.
517. **PSYCHOLOGICAL STATISTICS.** 3 hrs. II.
An intermediate level presentation of descriptive and inferential statistics as applied in behavioral research. 2 lec-2 lab.
PR: Psychology 323, 324, 406, and Mathematics 120, or consent of instructor.
518. **PSYCHOLOGY OF PERSONNEL.** 3 hrs. I, II, S.
Psychological principles and methods applied to functions in personnel administration.
PR: Psychology 201.
550. **PERCEPTION.** 3 hrs. I.
Critical studies of the major theories of perception and the related research.
PR: Twelve hours of psychology, including Psychology 324 or its equivalent.
560. **HISTORY AND SYSTEMS OF PSYCHOLOGY.** 3 hrs. I, S.
PR: Twelve hours of psychology.
606. **HUMAN ABILITIES: DEVELOPMENTAL RETARDATION AND SUPERIORITY.** 3 hrs.
Range of ability in human behavior with special emphasis on mental retardation and superiority; conditions, training or education, adjustment.
PR: Twelve hours of psychology.
611. **PSYCHOLOGICAL TESTS I.** 3 hrs. I (Concurrent with Psychology 612).
Instruction and practice in the use of individual intelligence tests, including the Stanford-Binet and Wechsler scales; evaluation of test results.
PR: Twelve hours of psychology including Psychology 406-506 or its equivalent.
612. **PSYCHOLOGICAL TESTS II.** 3 hrs. I (Concurrent with Psychology 611).
Instruction and practice in the use of tests of intelligence, aptitudes, tests of interests, and personality; evaluation of test results; selection of tests.
PR: Twelve hours of psychology including Psychology 406 or 506 or its equivalent.
613. **PSYCHOLOGICAL TESTS III.** 3 hrs. II.
Instruction and practice in the administration, scoring, and interpretation of standard projective devices.
PR: Psychology 408 or 508, 611, and 612.
614. **PSYCHOLOGY OF PERSONALITY.** 3 hrs. I.
The nature of personality structure and dynamics.
PR: Twelve hours of psychology.

620. **CLINICAL PSYCHOLOGY I.** 3 hrs. II.
Counseling of individuals presenting normal developmental problems. Techniques of appraisal. Preparation of written and oral staff reports.
PR: Psychology 408 or 508, 611, 612, 613.
621. **CLINICAL PSYCHOLOGY II.** 3 hrs. II.
Appraisal and counseling of individuals presenting abnormal adjustments.
PR: Psychology 408 or 508, 611, 612, 613.
623. **EXPERIMENTAL DESIGN.** 3 hrs. I.
An introduction to the design and interpretation of psychological research. Emphasis is upon tests of significance and assumptions governing their application.
PR: Twelve hours of psychology including statistics equivalent to Psychology 417-517.
624. **CORRELATION ANALYSIS.** 3 hrs. II.
Correlation analysis in psychological research including theory and practice in test development, correlation and regression applications and factor analysis.
PR: Psychology 623 or consent of instructor.
681. **THESIS.** 1-6 hrs. I, II, S.
- 690-691-692-693-694-695. **SEMINAR.** 1-3; 1-3; 1-3; 1-3; 1-3; 1-3 hrs.
Reports on current problems and literature in psychology and related fields; professional ethics. Ordinarily, two hours credit is earned in seminars; not more than four hours may be earned.

SAFETY EDUCATION

Professor Fitch

590. **PROBLEMS AND PRACTICES IN TRAFFIC SAFETY AND DRIVER EDUCATION.** 3 hrs.

SCIENCE FOR TEACHERS

General

Associate Professor Ward

Assistant Professors Ash, Modlin

500. **ASTRONOMY.** 3 hrs. I, S.
A study of the stars and planets and galaxies, planetary motion, cosmology and cosmography. Designed to assist teachers and others to develop an interest in astronomy.
583. **DEVELOPMENT OF SCIENTIFIC THOUGHT.** 3 hrs. II, S.
A study of the men and ideas which have influenced science; the philosophy of their periods; the economic conditions leading to scientific advancement; and the works of the foremost men in this field.
PR: Twelve hours of science.

Chemistry

Professors Wotiz, Bartlett, Hoback

Associate Professors Chakrabarty, Douglass, Hanrahan, Lepley, Reynolds

Assistant Professors Beistel, Roberts

Note: Courses marked "" require a \$10.00 laboratory breakage deposit.*

Note: The following courses are open to students working for the master's degree in Education. See Program G under Education.

- 520.* FUNDAMENTALS OF CHEMISTRY. 4 hrs. S. Offered on demand.
Three credits lecture and one credit laboratory. Open only to M.A. degree candidates.
PR: Analytical Chemistry or equivalent.
- 622-623.* ORGANIC. 3; 3 hrs. S. Offered on demand.
Two credits lecture and one credit laboratory. Open only to M.A. degree candidates.
627. PHYSICAL CHEMISTRY FOR TEACHERS. 5 hrs. S.
Three credits lecture and two credits laboratory. Open only to M.A. degree candidates.
PR: Chemistry 520 or equivalent.

Physics

Professor D. Martin

Assistant Professor Parnell

Note: The following courses are open to students working for the master's degree in Education. See Program G under Education.

- 640-641. FUNDAMENTALS OF PHYSICS. 3; 3 hrs.
A review and extension of basic principles of physics with particular stress on materials and methods of demonstration.
- 642-643. ELECTRONICS. 3; 3 hrs.
Basic principles of electron tubes and their applications in industry, medicine, and communications, with accompanying laboratory work.
644. ATOMIC PHYSICS. 3 hrs.
A historical development of the modern theories concerning the structure of matter, electricity, and light, including applications of optical spectra and X rays.
645. NUCLEAR PHYSICS. 3 hrs.
Structure and properties of the nucleus of the atom, radioactivity, atomic transmutations, the basic principles of atom smashing machines, and atomic energy.
646. SEMINAR ON RECENT DEVELOPMENTS IN THE PHYSICAL SCIENCES.
3 hrs.
Reports from current issues from various periodicals in the field of physical science.

SOCIOLOGY AND ANTHROPOLOGY

Professors Simpkins, Habel, Richardson

Anthropology

505. **COMMUNITY DEVELOPMENT.** 3 hrs. II. (Even numbered years)
Principles of applied anthropology in community development.
PR: 6 hrs. of anthropology or sociology.
526. **THE NEGRO IN AFRICA AND AMERICA.** 3 hrs. I, S. (Even numbered years)
Study of African tribal cultures leading to analysis of Negro culture in the Americas.
PR: Anthropology 343.
527. **ETHNIC RELATIONS.** 3 hrs. I, S. (Even numbered years)
Analysis of cultural contact situations with emphasis on the role of Western European cultures.
PR: Anthropology 343.
530. **THE AMERICAN INDIAN.** 3 hrs. II, S. (Even numbered years)
Comparative analysis of Indian tribal cultures of the Americas.
PR: Anthropology 343.
630. **CULTURE AND PERSONALITY.** 3 hrs. I. (Odd numbered years)
Analysis of the relations between cultural, social, and personality systems.
PR: 6 hrs. of anthropology or sociology; 6 hrs. of psychology; or permission of instructor.

Sociology

Students admitted to the Department of Sociology for graduate work must meet the following requirements:

1. The Graduate Record Examination must be taken before applying for admission to candidacy.
 2. A minimum of 12 semester hours of approved courses in sociology must be taken, including 3 hours of statistics.
501. **POPULATION PROBLEMS.** 3 hrs I. (Odd numbered years)
Study of population characteristics, growth, and trends with emphasis on the social and cultural implications.
PR: 6 hrs. of sociology.
503. **SOCIAL INVESTIGATION.** 3 hrs. I.
Intermediate social research methodology with emphasis on investigative procedures, data analysis, and research design.
PR: Sociology 345.
508. **THE FAMILY.** 3 hrs. II. (Even numbered years)
Theoretical analysis of the family as the primary social institution.
PR: 6 hrs. of sociology.

512. **GROUP RELATIONS.** 2 hrs. I.
Theory of small group interaction; group structure and functions in various organizational contexts.
PR: Sociology or Psychology 302.
521. **HISTORY OF SOCIAL THOUGHT.** 3 hrs. I.
Introduction to the development of social theory. (Required of all Master of Arts candidates.)
PR: 6 hrs. of sociology or permission of instructor.
529. **SOCIAL LEGISLATION.** 3 hrs. I. (Even numbered years)
Contemporary social welfare legislation and its social implications.
PR: 6 hrs. of sociology or permission of instructor.
531. **CLASSROOM AND FIELD STUDIES.** 3 hrs. I.
Supervised field experiences in a welfare agency or community action organization with regular conferences with instructor. Two afternoons each week. Limited enrollment.
PR: Permission of instructor.
533. **INDUSTRIAL SOCIOLOGY.** 3 hrs. II. (Even numbered years)
The organization and structure of the workplant as a social system; the meaning and organization of work; managerial functions; management-labor relations; and human relations in industry.
PR: Sociology 412.
535. **PROBLEMS OF JUVENILE DELINQUENCY.** 3 hrs. I. (Odd numbered years)
Theories of delinquency causation and prevention; organization and functions of social agencies operating in the field.
PR: Sociology 311.
536. **AGING IN WESTERN CULTURE.** 3 hrs. II. (Even numbered years)
The problems associated with maturity, retirement, and old age in contemporary industrial societies.
PR: 6 hrs. of sociology or permission of instructor.
539. **SOCIAL STRATIFICATION.** 3 hrs. I, S.
Analysis of various theories of stratification, with emphasis on the American class system.
PR: 6 hrs. of sociology or permission of instructor.
601. **SOCIOLOGICAL THEORY.** 3 hrs. II.
Contemporary sociological theories and their relation to research in human behavior. (Required of all Master of Arts candidates.)
PR: Sociology 521.
602. **CONTEMPORARY SOCIAL CHANGE.** 3 hrs. (Even numbered years)
Theories of social change and their uses in analyzing social change of today.
PR: 12 hrs. of sociology or permission of instructor.
611. **SOCIAL PATHOLOGY.** 3 hrs. II. (Odd numbered years)
Seminar in social maladjustment and disorganization, and their consequences.
PR: 12 hrs. of sociology or permission of instructor.

612. SOCIAL MOVEMENTS. 3 hrs. (Odd numbered years)
Seminar in social movements and other collective phenomena with analysis of selected examples.
PR: 12 hrs. of sociology or permission of instructor.
620. SEMINAR IN DELINQUENCY AND CRIMINOLOGY. 3 hrs. I.
(Even numbered years)
Seminar in crime and delinquency.
PR: 12 hrs. of sociology or permission of instructor.
625. SOCIAL CONTROL. 3 hrs. II. (Even numbered years)
Seminar in the processes and mechanisms of social control.
PR: 12 hrs. of sociology or permission of instructor.
632. RURAL SOCIAL ORGANIZATION. 3 hrs. I. (Even numbered years)
Seminar in rural social organization.
PR: 12 hrs. of sociology or permission of instructor.
633. FORMAL ORGANIZATION. 3 hrs. I. (Odd numbered years)
Seminar in formal organization with special attention given to bureaucratic organization.
PR: 12 hrs. of sociology or permission of instructor.
668. SEMINAR. 1-3 hrs. I, II, S.
Topics vary from semester to semester.
PR: 12 hrs. of sociology.
- 670-671. RESEARCH. 2; 2 hrs. I, II, S.
Independent research in preparation for the thesis.
PR: Departmental staff permission.
679. PROBLEM REPORT. 1-3 hrs. I, II, S.
The preparation of a written report on a research problem or field study in sociology.
PR: Departmental staff permission.
681. THESIS. 3-6 hrs. I, II, S.
Individual research in a selected field of sociology under the direction of a member of the department. (Required of all Master of Arts candidates.)
PR: Admission to candidacy and staff approval of topic.

SPEECH

Professors Harbold, Buell, Hoak, Hope, Ranson

Associate Professors Garrett, Novak, Page

Courses are taken with the approval of the instructor in the course.

Students who major in speech are to fulfill the following requirements:

1. Before being admitted to the Department of Speech, a student must have completed a program of undergraduate speech courses approved by the Department of Speech.
2. The following courses are required: Speech 601 and at least one course in each of the four areas of the department.

3. Pass a comprehensive written examination.
 4. Pass an oral examination in defense of the thesis.
503. **PLAY DIRECTION.** 3 hrs. I.
Primarily for those who will produce plays in schools, churches, and communities.
507. **PERSUASION.** 3 hrs.
A study of persuasive methods with special attention to the techniques of well-known contemporary speakers.
PR: Speech 202 or Speech 205 or Speech 207.
508. **DISCUSSION AND CONFERENCE LEADERSHIP.** 3 hrs.
Advanced, practical problems in group discussion, symposium, panel, public forum, and conference. The place of public discussion in the democratic process.
518. **SPEECH CORRECTION, INTRODUCTION.** 3 hrs. I, II.
Survey of the field with emphasis on the causes, symptoms, and treatment of articulation and voice disorders.
520. **SPEECH CORRECTION, ADVANCED.** 3 hrs.
Study of the neurophysiological mechanism for speech production; embryology pertinent to cleft lip and palate; speech after laryngectomy.
PR: Speech 418 or 518.
525. **LANGUAGE DISORDERS IN CHILDREN.** 3 hrs.
Theories of language learning together with causes and symptoms in individuals demonstrating deficiencies in language development.
PR: Speech 418.
531. **RADIO AND TELEVISION PRODUCTION.** 3 hrs.
Individual and group instruction in the techniques of radio and television programming, announcing, and acting. For interested students, special emphasis is placed on sportscasting and on women's programs.
532. **USE OF RADIO AND TELEVISION IN THE CLASSROOM.** 3 hrs.
For those entering public relations, elementary, or high school teaching.
533. **RADIO AND TELEVISION PROGRAM PLANNING.** 3 hrs.
Planning the individual program for radio and television broadcast. A study of the fundamentals of program structure. Analysis of program forms of local and network shows.
539. **PHONETICS.** 3 hrs.
Introduction to the science of speech sounds: study of phonetic alphabet and practice in broad transcription.
540. **PLAY WRITING.** 3 hrs.
Principles of dramatic construction. Writing of one-act plays and sketches for experimental and public performance.

545. CHILDREN'S THEATRE. 3 hrs.
Theory, direction, and staging of plays for children. Creative dramatics is included.
546. THEATRE HISTORY. 3 hrs.
A survey of mankind's activities in the theatre from primitive times to the present.
547. SCENE DESIGN. 3 hrs.
The fundamental aesthetic and technical principles of staging are applied to the educational theatre. Specific attention is given to the generation of a design from the play manuscript. Laboratory work is provided through the University Theatre.
PR: Speech 312 and Speech 313 or equivalent.
550. THE DIRECTION OF SPEECH ACTIVITIES. 3 hrs.
For those responsible for extra-curricular speech: debate, extempore speaking, oral reading, discussion, oratory.
PR: Fifteen hours of speech or by permission.
560. AUDIOLOGY. 3 hrs.
Analysis of hearing losses, including causes, symptoms, accompanying adjustment problems, and retraining principles.
601. PROBLEMS AND METHODS IN SPEECH RESEARCH. 3 hrs.
604. RHETORICAL BACKGROUND OF PUBLIC ADDRESS. 3 hrs.
The principles of public speaking traced back through the years to the Greek and Roman rhetoricians.
631. SCENERY AND GRAPHIC ARTS FOR TELEVISION. 3 hrs.
Basic principles with field work in the studios of area television stations.
634. SEMINAR IN RADIO AND TELEVISION. 1-3 hrs.
Problems in the broadcast field on varied subjects which concern the industry. It may not be taken for credit more than two times.
649. SEMINAR IN THEATRE. 3 hrs.
Seminar in problems of dramatic production with particular stress on phases of play direction.
650. LEADERS AND MOVEMENTS IN SPEECH EDUCATION. 3 hrs.
The important schools of thought, trends in the philosophy of speech, leaders and their influence since the time of Dr. James Rush.
656. SEMINAR IN PUBLIC ADDRESS AND SPEECH EDUCATION. 1-3 hrs.
679. PROBLEM REPORT. 1-3 hrs.
681. THESIS. 1-6 hrs.

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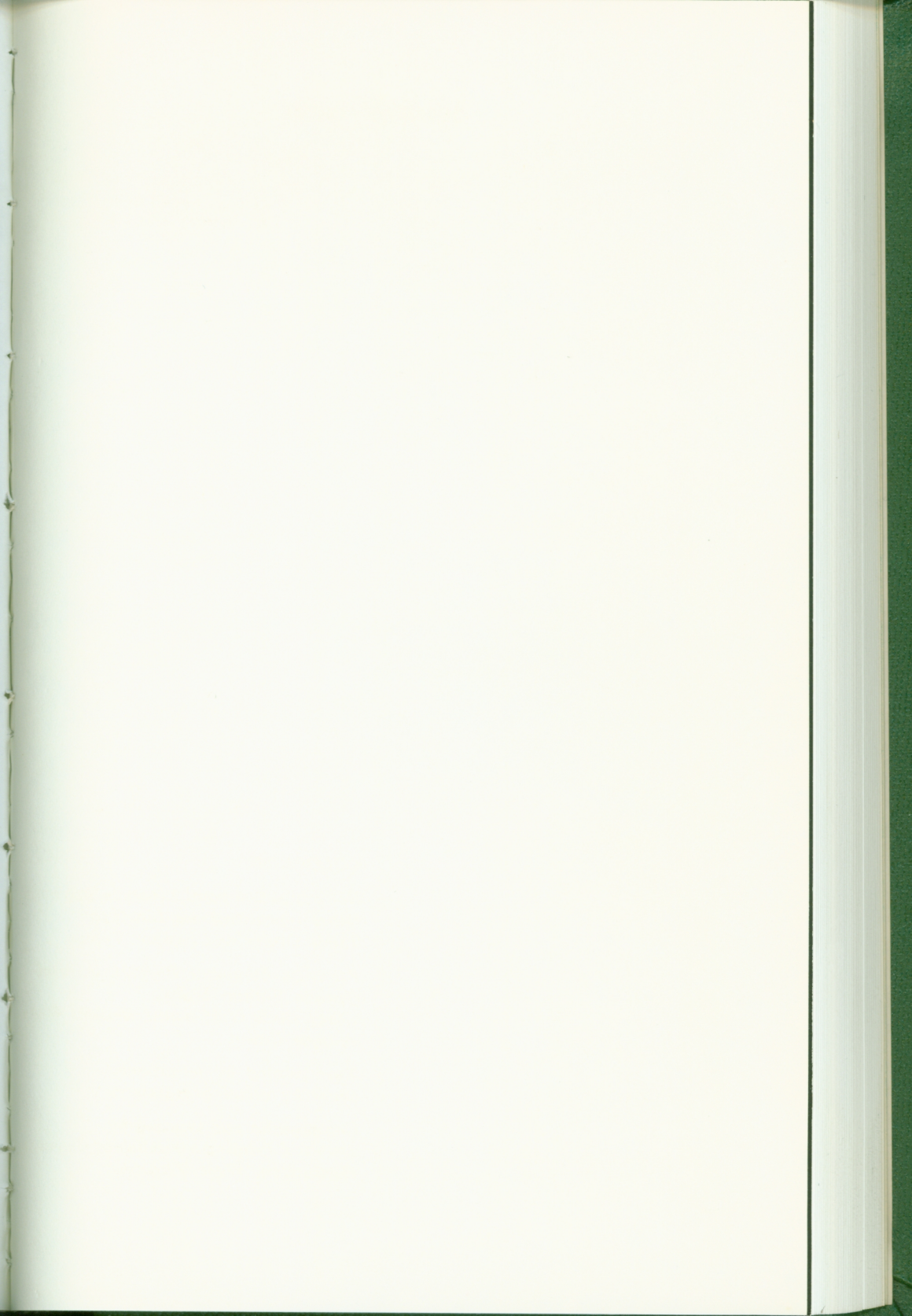
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