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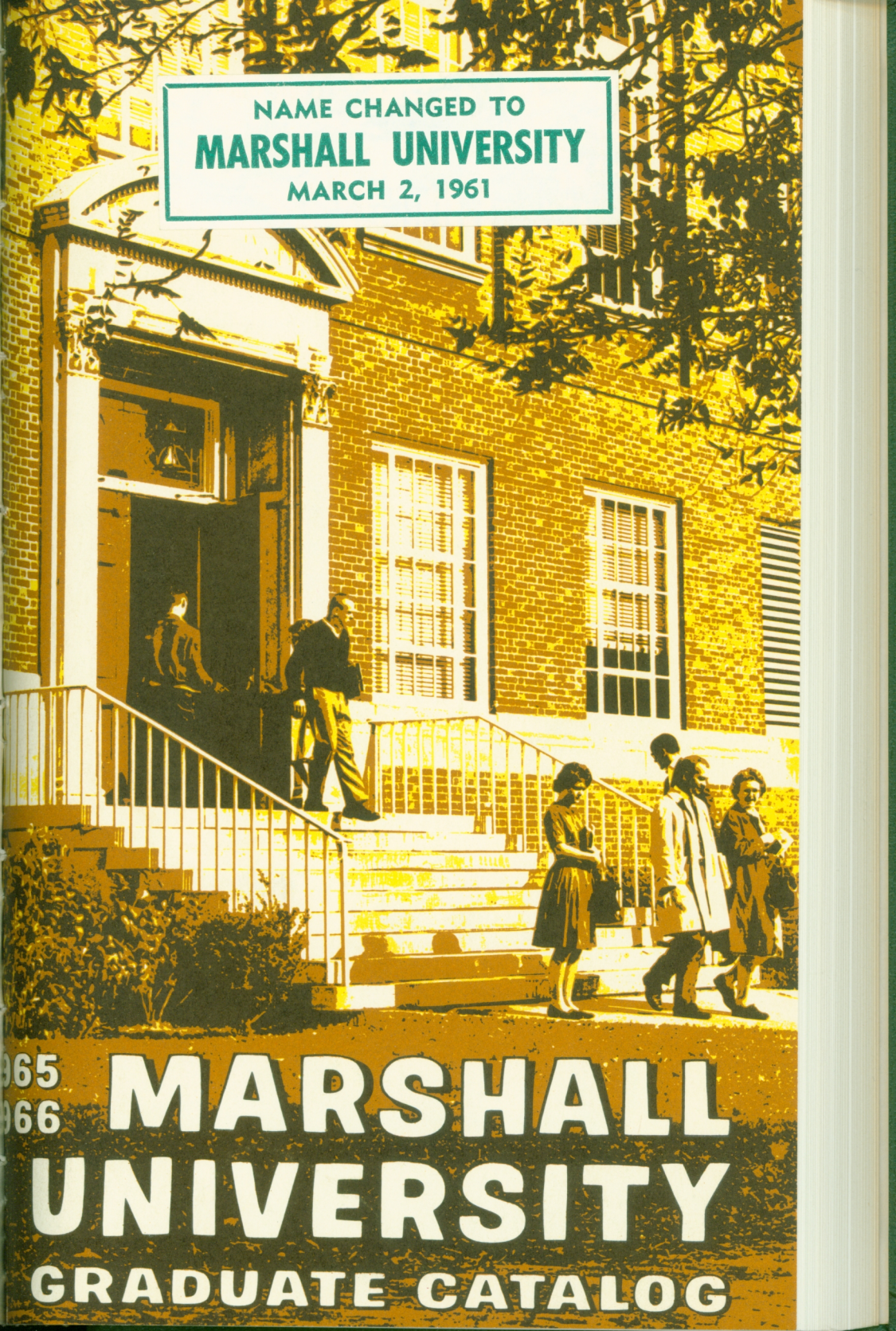
Graduate Catalog, 1965-1966

Marshall University

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1966

MARSHALL UNIVERSITY

GRADUATE CATALOG

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



GRADUATE
CATALOG
1965-1966

HUNTINGTON, WEST VIRGINIA

MARSHALL UNIVERSITY BULLETIN
Volume 5

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WEST VIRGINIA BOARD OF EDUCATION Charleston, West Virginia

Term Expires

CHARLES H. BROWN, <i>President</i> , Kingwood	1969
PERCE J. ROSS, <i>Vice President</i> , Buckhannon	1968
ANAGENE P. BARTRAM, Kenova	1970
S. J. BASKERVILLE, Charleston	1971
J. C. JEFFERDS, JR., Charleston	1965
LACY I. RICE, Martinsburg	1967
STEPHEN J. RUSSEK, Wheeling	1964
A. H. SPANGLER, Bluefield	1966
ARNOLD M. VICKERS, Montgomery	1972
REX M. SMITH, <i>State Superintendent</i> , Ex-Officio	
H. K. BAER, <i>Secretary</i> , Charleston	

OFFICERS OF ADMINISTRATION

STEWART HAROLD SMITH, B.S., M.A., Ph.D., Litt.D., LL.D., L.H.D.	<i>President</i>
HAROLD E. WALKER, A.B., B.D., Ph.D.	<i>Vice President of Academic Affairs</i>
JOSEPH S. SOTO, A.B., B.S.	<i>Vice President of Business and Finance</i>
ROBERT B. HAYES, A.B., Ed.M., Ed.D.	<i>Dean, Teachers College</i>
JOHN FRANK BARTLETT, A.B., M.A., Ph.D.	<i>Dean, College of Arts and Sciences</i>
AMBROSE EVERETT McCASKEY, JR., B.S.C.E., M.S.C.E., Ph.D. ...	<i>Dean, College of Applied Science</i>
JOHN R. WARREN, A.B., M.A., Ph.D.	<i>Dean, Graduate School</i>
LILLIAN HELMS BUSKIRK, A.B., M.A.	<i>Dean of Women</i>
JOHN EDWARD SHAY, JR., B.A., M.A.	<i>Dean of Men</i>
LUTHER E. BLEDSOE, A.B., M.A.	<i>Registrar</i>
PAUL H. COLLINS, A.B., M.A.	<i>Director of Admissions and Adult Education</i>
HAROLD WILLIAM APEL, A.B., M.S. in Library Science	<i>Librarian</i>
DAVID R. DODRILL, A.B., M.A.	<i>Director of Information and Publications</i>
ROBERT P. ALEXANDER, A.B., M.A.	<i>Director of Placement</i>

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

Men's Affairs and Housing

Dean of Men

Scholarships and Loans

Dean of Men

Transcripts, Records

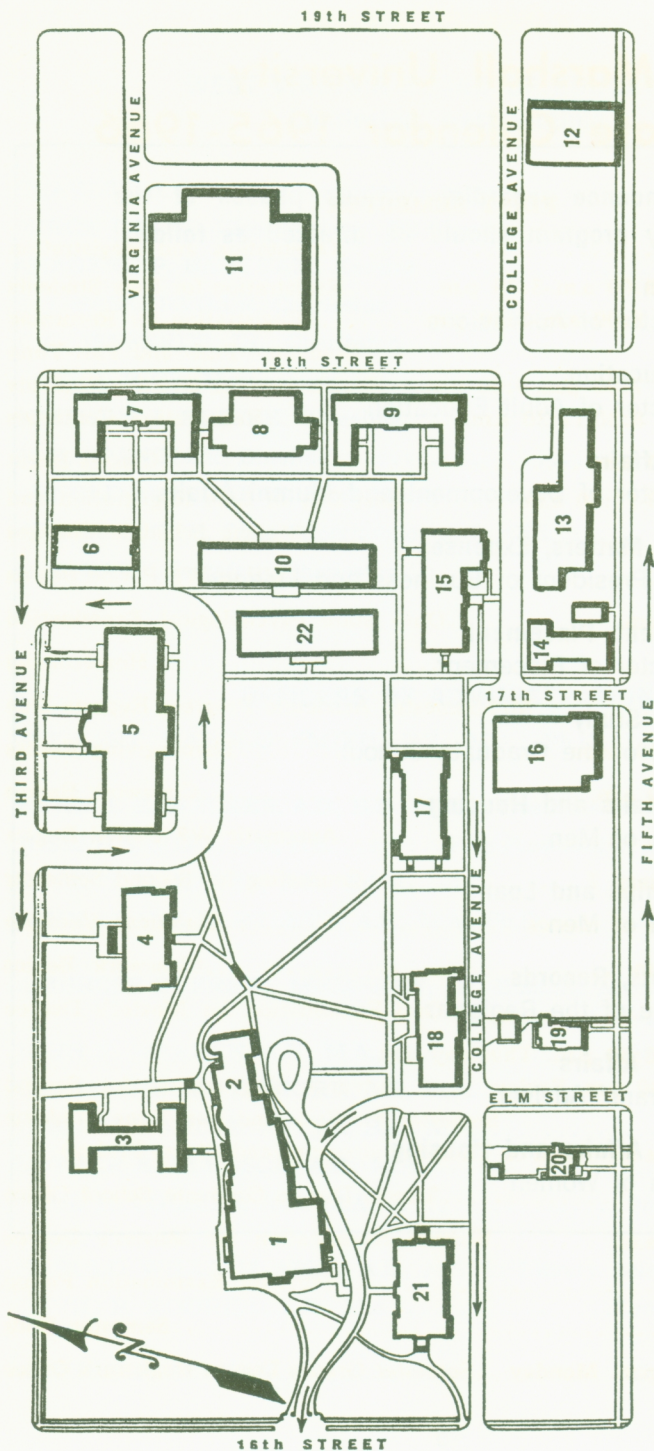
Office of the Registrar

Veterans' Affairs

Veterans' Adviser

Women's Affairs and Housing

Dean of Women



MAP OF

BUILDINGS

- 1 Old Main Hall
- 2 University Hall
- 3 Old Main Annex
- 4 James E. Morrow Science Building
- 5 Music Hall

- 7 Laidley Hall
- 8 University Dining Hall
- 9 Hodges Hall
- 10 Lucy Prichard Hall
- 11 Otto Gullickson Hall
- 12 Storage
- 13 Residence Hall for Men

- 14-15 Albert Gallatin Jenkins Laboratory School
- 16 Campus Christian Center
- 17 Women's Physical Education Building
- 18 Shawkey Student Union
- 19 Everett Hall

- 20 The President's House
 - 21 Northcott Hall
 - 22 Residence Hall for Women
- NOT SHOWN ON MAP**
- Memorial Field House
 - Fairfield Stadium
 - University Heights Campus

MARSHALL UNIVERSITY

HUNTINGTON, W. VA.

Marshall University

Graduate Calendar 1965-1966

FIRST SEMESTER

September 7-11	Orientation and Registration
September 9, 8:00 a.m.-3:30 p.m.	Registration for New Students
September 10, 8:00 a.m.-3:30 p.m.	Registration for Returning Students—Full- and Part-Time
7:00 p.m.-9:00 p.m. —	Registration for Evening Students
September 11, 8:30-11:30 a.m.	Registration Continues
September 13, 8:00 a.m.	Classes Begin
September 18, 8:30-11:30 a.m.	Last Day of Late Registration and Making Schedule Changes
October 13	WP or WF Period Begins
October 23, 9:00 a.m.	Ohio State Psychological Examination
November 6	Homecoming
November 9	Mid-Semester Academic Progress Reports Due
November 24, 12:00 noon	Thanksgiving Recess
November 29, 8:00 a.m.	Classwork Begins
December 7	Automatic WF Period Begins
December 13-January 7	Counseling for Second Semester
December 18, close of classes	Christmas Vacation
January 3, 8:00 a.m.	Classwork Begins
January 3-15	Oral Examination for Master's Degree
January 6-7, 1:00-3:30 p.m. Thursday and 8:00 a.m.-3:30 p.m. Friday	Advance Registration for Second Semester for Full- and Part-Time Students (Classes will be dismissed on Thursday afternoon and all day Friday)
January 15	Theses Due in Graduate School Office
January 15, 8:00 a.m.	Written Examination for Master's Degree
January 17-22	Semester Examination Period
January 22	Semester Ends
January 24, 4:00 p.m. Monday ..	Semester Grades Due in Registrar's Office

SECOND SEMESTER

January 27-29	Orientation and Registration
January 28, 8:00 a.m.-3:30 p.m.	Registration
7:00 p.m.-9:00 p.m.	Registration for Evening Students
January 29, 8:30-11:30 a.m.	Registration Continues
January 31, 8:00 a.m.	Classes Begin
February 5, 8:30-11:30 a.m.	Last Day of Late Registration and Making Schedule Changes
March 3	WP or WF Period Begins
March 29	Mid-Semester Academic Progress Reports Due
April 2, 9:00 a.m.	Ohio State Psychological Examination
April 6-Wednesday, close of classes	Easter Vacation
April 12-Tuesday, 8:00 a.m.	Classwork Begins
April 21-May 14	Counseling for Summer Session
April 25	Automatic WF Period Begins
May 2-14	Oral Examination for Master's Degree
May 7 & May 14, 8:30-11:30 a.m.	Advance Registration for Summer Session
May 9-20	Counseling for Fall Semester
May 14, 8:00 a.m.	Written Examination for Master's Degree
May 14	Theses Due in Graduate School Office
May 14-15	Parents' Weekend
May 19-20, 1:00-3:30 p.m. Thursday and 8:00 a.m.-3:30 p.m. Friday	Advance Registration for Fall Semester for Full- and Part-Time Students
	(Classes will be dismissed Thursday afternoon and all day Friday.)
May 23-28	Semester Examination Period
May 29	Baccalaureate and Commencement
May 30, 4:00 p.m. Monday	Semester Grades Due in Registrar's Office

SUMMER SESSION 1965

FIRST TERM

June 9, Wednesday—8:00 a.m.-3:30 p.m.	Regular Registration*
June 10, Thursday—7:30 a.m.	Classes Begin
June 11, Friday—3:30 p.m.	Last Day of Late Registration
June 12, Saturday—8:00 a.m.	Ohio State Psychological Examination
June 28-July 9	Oral Examination for Master's Degree
July 5, Monday	Observe Independence Day—University Holiday
July 9, Friday—4:00 p.m.	Theses Due in Graduate School Office
July 10, Saturday—8:00 a.m.	Written Examination for Master's Degree
July 13, Tuesday	First Term Ends

*See Summer Session Bulletin for Advance Registration Dates.

SUMMER SESSION 1965

SECOND TERM

July 14, Wednesday—8:00 a.m.-3:30 p.m.Regular Registration*
July 15, Thursday—7:30 a.m.Classes Begin
July 16, Friday—3:30 p.m.Last Day of Late Registration
July 17, Saturday—8:00 a.m.Ohio State Psychological Examination
August 2-13Oral Examination for Master's Degree
August 7, Saturday—8:00 a.m. ..Written Examination for Master's Degree
August 13, Friday—4:00 p.m.Theses Due in Graduate School Office
August 17, TuesdaySecond Term Ends

SUMMER SESSION 1966

FIRST TERM

June 8, Wednesday—8:00 a.m.-3:30 p.m.Regular Registration*
June 9, Thursday—7:30 a.m.Classes Begin
June 10, Friday—3:30 p.m.Last Day of Late Registration
June 11, Saturday—8:00 a.m.Ohio State Psychological Examination
June 27-July 8Oral Examination for Master's Degree
July 4, MondayObserve Independence Day—University Holiday
July 8, Friday—4:00 p.m.Theses Due in Graduate School Office
July 9, Saturday—8:00 a.m.Written Examination for Master's Degree
July 12, TuesdayFirst Term Ends

SECOND TERM

July 13, Wednesday—8:00 a.m.-3:30 p.m.Regular Registration*
July 14, Thursday—7:30 a.m.Classes Begin
July 15, Friday—3:30 p.m.Last Day of Late Registration
July 16, Saturday—8:00 a.m.Ohio State Psychological Examination
August 1-12Oral Examination for Master's Degree
August 6, Saturday—8:00 a.m. ..Written Examination for Master's Degree
August 12, Friday—4:00 p.m.Theses Due in Graduate School Office
August 16, TuesdaySecond Term Ends

*See Summer Session Bulletin for Advance Registration Dates.

THE GRADUATE COUNCIL

	<i>Term Expires</i>
John R. Warren, Ph.D., <i>Dean of the Graduate School</i>	Chairman
Arthur S. Carpenter, Ed.D., <i>Chairman, Department of Art</i>	1966
Sam E. Clagg, Ed.D., <i>Chairman, Department of Geography</i>	1966
Neil L. Gibbins, Ph.D., <i>Associate Professor of Education</i>	1967
Charles Hill Moffat, Ph.D., <i>Professor of History</i>	1965
Lawrence Howard Nuzum, Ed.D., <i>Professor of Education</i>	1965
Paul Dekker Stewart, Ph.D., <i>Chairman, Department of Political Science</i>	1967
A. Mervin Tyson, Ph.D., <i>Chairman, Department of English</i>	1966
George Ward, II, Ph.D., <i>Associate Professor of Psychology</i>	1967
John H. Wotiz, Ph.D., <i>Chairman, Department of Chemistry</i>	1965
Harold E. Walker, 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.*

- HOMER S. ARHELGER, *Associate Professor of Education*, 1962
Ed.D. 1962, Indiana University
- STANLEY WEST ASH, *Assistant Professor of Science*, 1956
M.A. 1954, Marshall University; graduate study, The University of Pennsylvania
- 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
- DOMINIC JAMES BISIGNANO, *Assistant Professor of English*, 1963
Ph.D. 1964, New York University
- ALLEN BLUMBERG, *Associate Professor of Education*, 1958
Ph.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
- LOUISE BYRUM BURNETTE, *Associate Professor of Home Economics*, 1961
Ph.D. 1964, Michigan State University
- 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, *Assistant Professor of Chemistry*, 1963
Ph.D. 1962, University of Toronto

- JOHN ADAM CHISLER, *Assistant Professor of Botany*, 1962
Ph.D. 1962, The Ohio State University
- 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
- DOROTHEA W. DAUER, *Professor of Modern Languages*, 1964
Ph.D. 1957, University of Texas
- WILLIAM ROGER DAVIDSON, *Associate Professor of Music*, 1955
M.Mus. 1947, University of Illinois; graduate study, University of Illinois, Columbia University
- LESLIE MARTZ DAVIS, *Professor of Geography*, 1939
Ph.D. 1935, University of Chicago
- HERBERT ELLSWORTH DAWSON, *Associate Professor of Psychology*, 1964
Ph.D. 1953, Indiana University
- ROBERT VERNON DIGMAN, *Associate Professor of Chemistry*, 1959
Ph.D. 1963, Pennsylvania State University
- JOANNE C. DRESCHER, *Associate Professor of Music*, 1950
M.Mus. 1948, Indiana University; graduate study, Florida State University, University of Denver
- CAROLYN FORE DWIGHT, *Associate Professor of Business Administration*, 1938
M.B.A. 1938, The Ohio State University; graduate study, University of Chicago, University of Colorado, The Ohio State University
- 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
- RUBY CALVERT FOOSE, *Associate Professor of Home Economics*, 1946
M.A. 1940, The Ohio State University; graduate study, University of Tennessee
- JUAN C. FORS, *Professor of Spanish*, 1931
Ph.B. 1921, Colegio Nacional; A.B. 1927, Valparaiso University; graduate study, Washington State College, University of Chicago
- 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
- VICTOR ANTHONY GRIECO, *Associate Professor of Business and Economics*, 1964
Ed.D. 1956, University of Pittsburgh
- SAMUEL TILDEN HABEL, *Professor of Sociology*, 1964
Ph.D. 1945, The University of Edinburgh
- MARGARET THELMA HAMPEL, *Professor of Education*, 1953
Ed.D. 1938, Columbia University

- EDWARD STEPHENSON HANRAHAN, *Assistant 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
- HERSCHEL HEATH, *Professor of History*, 1947
Ph.D. 1933, Clark University
- NED DUANE HEINDEL, *Assistant Professor of Chemistry*, 1964
Ph.D. 1963, The University of Delaware
- 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
- 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
- JOSEPH S. JABLONSKI, *Professor of Art*, 1929
M.A. 1925, Harvard University; graduate study, University of Cincinnati
- 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, The 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

- CHARLES LAWRENCE KINGSBURY, *Professor of Music*, 1950
Ed.D. 1945, Indiana University
- RUFUS L. LAND, *Associate Professor of Economics*, 1946
M.A. 1948, Marshall University; graduate study, University of Virginia,
The Ohio State University, University of Pittsburgh
- ALFRED P. LANEGGER, *Associate Professor of Music*, 1947
M.M. 1947, Syracuse University; diploma, State Academy of Music,
Munich
- 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 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 Uni-
versity, University of New Mexico
- JOHN LEWIS MARTIN, *Professor of 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 Ken-
tucky, University of Colorado, Boston University
- HOWARD LEONARD MILLS, *Professor of Botany*, 1951
Ph.D. 1951, State University of Iowa
- JOHN BRUBAKER MINICK, *Professor of Economics*, 1960
Ph.D. 1959, University of Southern California
- MARVIN O'NEILL MITCHELL, *Professor of English*, 1952
Ph.D. 1953, University of North Carolina
- PHILIP EUGENE MODLIN, *Assistant Professor of Science*, 1957
M.A. 1957, Marshall University; graduate study, West Virginia
University
- CHARLES HILL MOFFAT, *Professor of History*, 1946
Ph.D. 1946, Vanderbilt University

- GORDON GEORGE MOORE, *Assistant Professor of Chemistry*, 1962
Ph.D. 1962, Yale 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 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
- VIRGINIA NORVAL PARRISH, *Associate Professor of French*, 1947
M.A. 1940, University of Kentucky; graduate study, University of Kentucky
- WALTER H. PERL, *Professor of German*, 1948
Ph.D. 1936, University of Zurich
- SIMON DANIEL PERRY, *Assistant 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
- 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
- ALLEN OTIS RANSON, *Professor of Speech*, 1931
M.S. 1935, University of Wisconsin
- 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
- RONALD GENE ROLLINS, *Assistant Professor of English*, 1960
Ph.D. 1960, 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
- 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, *Associate Professor of Psychology*, 1962
Ph.D. 1961, The Ohio State University
- HAROLD EUGENE WARD, *Associate Professor of 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
- FRANCES WHALEN WHELPLEY, *Professor of Chemistry*, 1946
Ph.D. 1931, Columbia 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

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 was accepted by the Conference of the Methodist Episcopal Church South. Under church auspices educational progress continued 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 nine 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, a city with a population of 83,627. 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 hour 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 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 institution:

- A—Honor, given only to student of superior ability and performance. Four quality points are earned for each semester hour with a grade of A.
- B—Good, given for ability and performance distinctly above the average in quality. Three quality points are earned for each semester hour with a grade of B.
- C—Average, given for ability and performance of average quality. Two quality points are earned for each semester hour with a grade of C.
- D—Lowest passing grade, given for ability and performance of poor quality. One quality point is earned for each semester hour with a grade of D.
- F—Failure, signifies entirely unsatisfactory work. Courses must be repeated if credit is to be received. No quality points.
- 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 or the last exercises of the class work because of illness or some other equally good reason. When the work missed is done satisfactorily, the final grade may be any one of the four 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, D, F, FIW and WF in all semester hours registered are to count toward quality point averages.

Candidates for graduation and/or certification must have a quality point ratio of 3.0 (B) or higher on all work attempted.

It is the student's responsibility to keep informed on his quality point standing. This information can be obtained at any time from the dean of the Graduate School.

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 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 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* 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.

ABSENCE FROM EXAMINATIONS

Students are required to take all regular examinations. If a student attends a course throughout the semester and is absent from an 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 constitutes a normal semester schedule. However, additional hours may be taken with permission of the major adviser.

2. **CHANGES OF SCHEDULE**, i.e., adding courses, dropping courses, changing class hours or days, changing instructors, 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 1-99 are subcollege courses and do not carry college credit.

Courses numbered 100-199 are primarily for freshmen, open to sophomores unless otherwise specified.

Courses numbered 200-299 are primarily for sophomores, open to freshmen and juniors unless otherwise stated.

Courses numbered 300-499 are primarily for juniors and seniors.

Courses numbered 500-599 are equivalent to certain 400 series courses, but are open only to graduate students. (Note: Credit earned under a 400 series number after September 1, 1954, cannot be converted to graduate credit.)

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

AUDIT AND NONCREDIT COURSES

With the consent of the instructor and the adviser or the academic dean, 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.

TRANSCRIPTS

Every student is entitled to one free official transcript of his record. Each additional copy costs \$1, cash. Two to 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 obligation. 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.

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	75.00
Student Activity - Services Fee	40.00 ²	40.00 ²
Total Registration Fee	\$115.00	\$290.00

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
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

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 Theatre \$5.00; 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 ID card (\$1.00).

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

Nonresident

HOURS	TUITION	REGIS- TRATION	STUDENT ACTIVITY - SERVICES ¹	OUT OF STATE	TOTAL
1	\$ 5.00	\$ 6.00	\$ 1.00	\$ 10.00	\$ 22.00
2	8.00	12.00	2.00	22.00	44.00
3	10.00	18.00	3.00	35.00	66.00
4	13.00	24.00	4.00	47.00	88.00
5	16.00	30.00	5.00	59.00	110.00
6	19.00	36.00	6.00	71.00	132.00
7	22.00	42.00	7.00	83.00	154.00
8	25.00	48.00	8.00	95.00	176.00
9	25.00	54.00	9.00	110.00	198.00
10	25.00	60.00	10.00	125.00	220.00
11	25.00	66.00	11.00	140.00	242.00

SUMMER TERM, 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	\$ 24.00	\$ 10.00	\$ 43.00	\$ 92.00
5	15.00	30.00	10.00	43.00	98.00
6	15.00	36.00	10.00	43.00	104.00
7	15.00	42.00	10.00	43.00	110.00
8	15.00	48.00	10.00	43.00	116.00

SUMMER TERM, PART-TIME STUDENTS
(LESS THAN 4 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

¹A 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; ID Card \$.25; and Laboratory and Course Fees.³ID card \$.25; Laboratory and Course Fees.

HOURS	TUITION	Nonresident			TOTAL
		REGIS- TRATION	STUDENT ACTIVITY - SERVICES ¹	OUT OF STATE	
1	\$ 5.00	\$ 6.00	\$ 1.00	\$ 10.00	\$ 22.00
2	8.00	12.00	2.00	22.00	44.00
3	10.00	18.00	3.00	35.00	66.00

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	110.00
Books, gym outfit	30.00	35.00
Supplies, etc.	10.00	15.00
	<hr/>	<hr/>
	\$488.00 plus tax	\$509.00 plus tax
Out-of-state students pay an addi- tional fee of	\$175.00	\$175.00

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 \$7.01 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.

Board per five-week summer term is \$65.00 plus \$1.94 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.

The effective date for use of tickets in the meal book for all students is the first day of regular registration.

The consumers sales tax is added to the board and room charges.

¹ID card \$.25; Laboratory and Course Fees.

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

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 Fees

Graduate Degree	10.00
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Cap and Gown Fee

Graduate Degree	5.40
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Graduation fees are due and payable on notification from the dean.

Fees for fractional hour courses

Tuition for one-half-semester-hour courses or other fractional hour credit shall be the same as that charged for one semester hour. The present rate of \$3.00 per semester hour shall apply to each hour or fraction thereof for resident students and \$15.00 per semester hour for nonresident students.

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.

ROOM RENT

(Per Semester of 18 Weeks)

HODGES HALL AND LAIDLEY HALL

All rooms, per student	\$ 99.00
Plus \$2.96 Consumers Sales Tax	

PRICHARD HALL, RESIDENCE HALL FOR MEN, RESIDENCE HALL FOR WOMEN

All rooms, per student	\$120.00
Plus \$3.59 Consumers Sales Tax	

(Per Summer Term of 5 Weeks)

HODGES HALL AND LAIDLEY HALL

All rooms, per student\$ 40.00
 Plus \$1.19 Consumers Sales Tax

**PRICHARD HALL, RESIDENCE HALL FOR MEN AND
RESIDENCE HALL FOR WOMEN**

All rooms, per student\$ 40.00
 Plus \$1.19 Consumers Sales Tax

Summer School room reservation deposit is \$10.00. No refunds.

(Summer Workshops)

Three weeks to 6 weeks Entire 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**

Students who withdraw regularly from the University may have a refund in accordance with the following schedule:

	Amount of Refunds
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	No refunds allowed

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.

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 section 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.

IV. 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 \$25.00 deposit plus the prorated rent based upon the total semester rate is deducted from the refund.

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.

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

As a state institution, Marshall University offers a low rate of tuition to all students entering from West Virginia. Eligibility for admission under the low residential rate is determined in accordance with the following policy established by the West Virginia Board of Education in July, 1959.

The term "resident" as hereinafter used refers to classification for fee purposes only.

All students not classified as resident students are classified as non-residents for fee purposes.

A student classified as a nonresident at the time of first registration in a state college, is considered a nonresident for fee purposes throughout his years as a student in a state college, unless his parents move to and establish a home, permanent abode and legal domicile in the state for 12 consecutive months immediately prior to his registration in a state college. If the status of a student is thus properly changed from a non-West Virginia to a West Virginia student, his classification may not be changed until the next registration period.

Students who are minors: The residence of a minor follows that of the parents at all times. The residence of the father during his life, and after the father's death, the residence of the mother is the residence of the minor, but if the father and mother have separate places of residence, the minor takes the residence of the parent with whom he lives or to whom he has been assigned by court order. The parents of a minor are considered residents of West Virginia if they have had a home, permanent abode and legal domicile within the state for 12 months immediately prior to registration.

A student who is 21 years of age or over may be classified as a resident if (1) his parents were residents of the state at the time he reached his majority or (2) who, while an adult, has established a bona fide home, permanent abode and legal domicile for at least 12 consecutive months immediately preceding his initial registration, it being understood, however, that no non-resident student may establish residence in this State for fee purposes, merely by his attendance as a full or part-time student at any institution of learning in the State. There must be evidence that he has come to the State primarily for other purposes than college attendance.

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

A West Virginia student whose parents or guardian move out of the State of West Virginia after his original enrollment, automatically becomes liable for nonresident fee at the next registration period after 12 months following removal of parents or guardian.

The residence of a minor student assigned to a guardian shall be considered affected by such assignment, beginning 12 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 had a home, permanent abode and legal domicile in West Virginia for 12 months immediately preceding the date of his enrollment in a state college is regarded as eligible for registration as a West Virginia student.

Neither registration as a voter in the State of West Virginia nor the purchase of a West Virginia automobile license constitutes residency for fee purposes.

Persons who are moved into the state as the result of military orders from the government, or the minor children of such persons, are entitled to admission as in-state students beginning 12 months after establishing domicile or abode in the state.

A student who willfully gives wrong information to evade payment of the nonresident fees is subject to serious disciplinary action, and must also pay the nonresident fee for each session attended.

The above regulations shall not be retroactive nor penalize a student or students previously classified.

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 non-resident students is \$15.00 per semester hour, plus a registration fee of \$6.00 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. 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 from the dean of the Graduate School concerning eligibility for admission.

Extension students who are college graduates and who do not wish to work toward a degree may be excused from the transcript and application requirements by signing a form forfeiting graduate credit. However, these students must furnish the Registrar's Office with letters of good standing from their undergraduate colleges. Compliance with these regulations is a required part of the registration procedure for graduate students.

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 by 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 the Residence Hall for Women.

Men are housed in Hodges Hall and the Residence Hall for Men.

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.

Applications and Deposits

Applications for rooms in residence halls must be made to the dean of women or dean of men. An application is considered only if accompanied by a \$25.00 deposit. Deposits are credited to the semester room rent.

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 dormitory are found under the title "Fees."

Cancellations and Refunds

DEPOSITS: A refund of \$15.00 on the deposit of \$25.00 is made if a request is received in the dean of men's or dean of women's office prior to August 1st for the first semester or December 5th for the second semester. After these dates the entire deposit is forfeited.

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 \$25.00 deposit plus the prorated rent based upon the total semester rate is deducted from the refund.

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 dean of men and dean of women. 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 \$55.00 per month for a two-room apartment. Applications may be procured from the Office of the Dean of Men. 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 the Dean of Men.

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 Room 18 of the Science Building.

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 University assumes that each student is a mature, responsible individual who has entered the institution for educational advancement. On that assumption the University expects the student to direct his energy toward the highest scholastic achievement possible for the individual.

While attaining these high educational purposes the University requires that the student maintain a pattern of social behavior in keeping with good taste and high moral standards. The student is charged with the responsibility for regular class attendance, reasonable study hours, and a sane social program.

The University believes that the use of liquor by a student is detrimental to his welfare. Therefore, students entering their rooming places, either residence halls or private houses, under the influence of liquor, and students who introduce liquor into any rooming place or college building are subject to dismissal from the University. Any function sponsored by or held in the name of a recognized student organization must abide by all University regulations whether that function be held on or off campus.

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 10-watt 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 Monday thru Friday and for special events on Saturday.

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, Symphony Orchestra, Symphonic Choir, Men's Concert Choir, A Capella Choir, and Choral Union. 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 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, Toledo University 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 approved regulations which 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: biological sciences, chemistry, education, English, geography, history, political science, psychology, sociology, speech, and communication arts. Special programs for teachers leading to the Master of Arts degree are: elementary education, art-education, biological science-education, business-education, English-education, home economics-education, library science-education, music-education, physical science-education, and social studies-education.

Fields that offer work for a minor only are anthropology, Bible, economics, French, geology, German, journalism, Latin, mathematics, philosophy, physical education, 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, in case 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 to the Graduate School is open to qualified graduates of Marshall University and of other colleges and universities provided their undergraduate records are satisfactory. 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 overall 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. All graduates of standard four-year colleges must register in the Graduate School.

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 the work already 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 at Marshall University.

The Adviser

The dean assigns each student to 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 results of these examinations to the Graduate School Office. Admission to candidacy for the master's degree and admission to the comprehensive examination must carry 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, credit of not less than 6 hours and not more than 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 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.

Persons possessing personal qualities which may render them unacceptable among those with whom they may work or which may reflect discredit on a profession, on the master's degree, and on Marshall University will not be recommended for the degree. The University has the final right to determine whether the candidate has such qualities.

Thesis

REGULATION 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

A year's work in residence is required for the master's degree. 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 carried 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.

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 major department, 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.

Work done 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 from the dean of the Graduate School concerning eligibility for admission.

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 successfully completed. The examination may be either oral or written, or both. The examination is not to rest primarily 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 on either the written or oral comprehensive examination may take a second examination at the discretion of the student's major department and the dean of the Graduate School.

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

(See Art-Education Program Listed Under Education)

Professors Carpenter, Jablonski

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

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: Art 501 and 502.

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: Art 501 and 502.

601. METHODS IN ELEMENTARY 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 hrs.

Special studies in art education or art history for those who wish to carry out selected creative projects in drawing and painting, ceramics, clay modeling, the graphic arts, or applied design.

670. SEMINAR. 2 hrs.

Readings and reports in selected areas of art education.

679. PROBLEM REPORT. 1-3 hrs.

681. THESIS. 1-6 hrs.

BIBLE AND RELIGION

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

Assistant Professors Chisler, Shoemaker

Course work leading to the Master of Arts and the Master of Science degrees in the biological sciences is designed to give 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. Students desiring academic training in the above fields should pursue the biological science major.

Master's degree candidates are expected to 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 chairmen of the three departments administering the biological sciences graduate degrees. The minor field chosen for all biological science majors may be selected by the student.

Students who do not have 12 hours of undergraduate work required for admission to full graduate standing 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 is required. It tests 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.

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

524. ANIMAL PARASITOLOGY. 4 hrs.

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

PR: Zoology 212.

526. MEDICAL ENTOMOLOGY. 4 hrs.

The role of certain insects and other arthropods in the transmission of disease 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 of forests, soils, and wild life.

601. VERTEBRATE EMBRYOLOGY. 4 hrs. I.

Vertebrate development based chiefly 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.

Experimental study of growth, nutrition and responses of plants. 2 lec-4 lab.

605. ECONOMIC BOTANY. 3 hrs.

Plants used by man for food, ornamental purposes, building materials, textiles and other industrial purposes; economic importance of conservation.

606. FIELD BIOLOGY. 4 hrs. II, S.

Identification, classification of plants and animals; study of different habitats, and communities of animal and plant life.

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.
615. **PLANT MORPHOLOGY.** 4 hrs.
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.
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.
619. **CELLULAR METABOLISM.** 4 hrs. II.
The chemistry of cell functions, including cellular organization, with special emphasis on intermediary metabolism.
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.
PR: Botany 316 or consent of instructor.
- 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 ADMINISTRATION

Associate Professors Grieco, Dwight, Evans, C. Miller

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.
512. RETAIL ACCOUNTING. 3 hrs. I.
Principles and problems relating to sales transactions; purchases; inventory valuation and control; expense classification, distribution, and control; and the preparation and analysis of operating statements for retail establishments.
PR: Business Administration 216.
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.
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. **INVESTMENTS.** 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. **WHOLESALEING.** 3 hrs. II.
Nature and importance of wholesaling; managerial aspects and problems; governmental regulation.
PR: Business Administration 340.
542. **TECHNIQUES OF MARKET 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.
640. **AMERICAN MARKETS AND MARKETING.** 3 hrs. S.
Marketing principles developed through the case problems method.
Not open to students who have had Business Administration 340 or its equivalent.

Business Education

624. **ORGANIZATION, ADMINISTRATION, AND SUPERVISION OF BUSINESS EDUCATION.** 3 hrs. I, II, S.
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. I, II, S.
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. I, II, S.
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. I, II, S.
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. I, II, S.
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. S.
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. S.
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. S.
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, Whelpley

Associate Professor Digman

Assistant Professors Chakrabarty, Hanrahan, Heindel, Moore

The Committee on Professional Training of the American Chemical Society (ACS) does not have minimum standards for graduate study. However, 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 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.

REQUIREMENTS FOR A MASTER OF SCIENCE DEGREE IN CHEMISTRY:

In addition to the general requirements of the Graduate School, students for the Master of Science degree 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 two hours credit in a chemistry laboratory course (Chemistry 510, 556, 563, 566, 616, 617).
- 2) A minimum of 6 and a maximum of 12 semester hours of research (Chemistry 682) must be applied toward the degree requirements.

A reading knowledge of German, French, or Russian is required.

Students must 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 357.

547. THE NATURE OF CHEMICAL BONDING. 2 hrs. I.

A modern viewpoint of structural chemistry with examples from inorganic and organic chemistry. 2 lec.

PR: Chemistry 358.

548. ADVANCED INORGANIC. 2 hrs. II.

2 lec.

PR: Chemistry 547.

556.* INSTRUMENTAL ANALYSIS. 3 hrs. I, II, S.

A study of use and application of modern analytical instruments and techniques. 2 lec-3 lab.

PR: Chemistry 345.

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. I.

The identification of organic compounds with the aid of modern instruments. 1 lec-6 lab.

PR: Chemistry 357.

582. ADVANCED ORGANIC. 2 hrs. II.

PR: Chemistry 547.

604. THEORIES OF ANALYTICAL CHEMISTRY. 2 hrs. Offered on demand.
PR: Chemistry 547.
607. THEORETICAL ORGANIC. 2 hrs. I. (Not offered in 1966-1967).
A study of the mechanisms of organic reactions.
PR: Chemistry 547.
609. CHEMICAL THERMODYNAMICS. 2 hrs. (Not offered in 1966-67).
CR: Chemistry 547.
610. CHEMICAL THERMODYNAMICS II. 2 hrs. II. (Not offered in 1966-67).
PR: Chemistry 609.
612. STEREOCHEMISTRY. 2 hrs. I. (Not offered in 1965-66).
The stereochemistry of organic and inorganic compounds. 2 lec.
PR: Chemistry 547.
- 616.* X-RAY DIFFRACTION. 3 hrs. Offered on demand.
2 lec-3 lab.
PR: Mathematics 221.
- 617.* SPECTROSCOPY. 2 hrs. Offered on demand.
A study of emission and absorption spectroscopy. 1 lec-3 lab.
618. KINETICS. 2 hrs. II. (Not offered in 1965-66).
An advanced study of reaction rates and mechanisms.
PR: Chemistry 547.
- 620*-621.* FUNDAMENTALS OF CHEMISTRY. 3; 3 hrs. S. Offered on demand.
Two credits lecture and one credit laboratory. Open only to M.A. 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. candidates.
- 624*-625.* PHYSICAL. 3; 3 hrs. S. Offered on demand.
Two credits lecture and one credit laboratory. Open only to M.A. candidates.
PR: Chemistry 621 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. 2 hrs. I. (Not offered in 1965-66).
682. RESEARCH. 1-12 hrs. I, II, S.
PR: Approval of department chairman.
Credit in the course is earned by pursuing a directed original investigation in a field of chemistry. A minimum of 6 and a maximum of 12 semester hours credit in research may 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 will 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 providing education in several related communication areas, the Master of Arts degree in communication arts is a flexible one adaptable to the needs of persons in such areas as public relations, journalism, advertising, broadcasting, school library services, 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, 681
EDUCATION	566, 610, 612, 621, 640, 641, 679
ENGLISH	575, 580-590, 603, 610, 630, 631, 632
GROUP 3	3-9 hours
ART	650
EDUCATION	543, 545, 601, 606
GEOGRAPHY	530
JOURNALISM	527, 528
SOCIOLOGY	625
Other courses with consent of adviser	

Education 601, 606, and 612 are open only to students who hold valid teacher's certificates based on courses completed in a teacher training institution.

ECONOMICS

Professor Minick

Associate Professor Land

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 economics.

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, Cubby, Hampel, Hess, Irvin, Nuzum, Runyan, Willey
Associate Professors Arhelger, Blumberg, Core, Felty, Gibbins, Gray,
Jordan, Lichtenstein, Phillips, Ritchie, Ward
Assistant Professors Campbell, Hunter, Mangan

The undergraduate prerequisites for a major in education are 15 semester hours in the field. College graduates who did not follow teacher education programs for the baccalaureate degree may carry a limited number of graduate courses in education concurrently with the undergraduate courses required for certification. The total of undergraduate and graduate education required for the master's degree is 45 semester hours. Registration for graduate courses in education to meet certificate requirements does not automatically 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.

Students earning a master's degree in education must show competence in the following areas: audio-visual aids, curriculum, guidance, history or philosophy of education, human growth and development or psychology of learning, research in education, school administration or supervision, teaching methods, and testing and evaluation. It is the responsibility of the student to work out with the adviser at the beginning of his graduate work a program of studies which provides a broad professional background.

The student's adviser may require that specific courses be completed to satisfy the requirement of competence in the above areas or to correct weaknesses that may 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.

Elementary teachers should follow Option A or B or work for a principal's certificate.

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

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.
3. Hold a Professional Teaching Certificate valid in West Virginia or the equivalent thereof.

The test mentioned above is administered early in every semester and term. It is the responsibility of the student to inform himself concerning the time and place of the administration of the test.

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 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, and 650.

Courses for persons minoring in education must be chosen from the following: Education 535, 545, 560, 590, 609, 610, 614, 515 or 615, 616 or 648, 635, 641.

Course requirements for the curriculums follow:

I. Administrative Certificates

A. COUNTY SUPERINTENDENT'S CERTIFICATE

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, 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'S CERTIFICATE

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'S CERTIFICATE

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, 541, 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. CERTIFICATE IN GENERAL SUPERVISION

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.

II. Two-Year Graduate Program Leading to the Certificate in 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 necessarily lead to the certificate. It can be earned only by demonstrated capacity to carry on original investigation, 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 the 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 demonstrated 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 planned 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.

III. Counselor Certificate

PROGRAM FOR SCHOOL COUNSELORS

To qualify for the Master of Arts degree in counseling and guidance, the candidate must successfully complete the following program:

MINIMUM REQUIREMENTS 32-36 hours

1. Education 517, 590, 614, 621, 646, 647, 616 or 648,
649 or 650 24 hrs.
 2. Electives in Education selected with the approval of
the adviser (Guidance Majors may not enroll in Edu-
cation 602, 603, 604) 6-12 hrs.
 3. Electives outside of Education selected with the ap-
proval of the adviser 3-9 hrs.
- Following courses recommended:
Psychology 506, 518, 611, 612
Sociology 512, 529, 531, 533, 535, 620, 625.

Students may qualify for recommendation for the teacher-counselor endorsement of their Professional Teaching Certificates in the State of West Virginia upon completion of the following courses:

Education 490 or 590, 614, 621, 646, 647, 649 or 650.

IV. Teacher-Education Curriculums

A. PROGRAMS FOR TEACHERS IN ELEMENTARY SCHOOLS

The two programs outlined below are for students in elementary education. Option A is designed particularly for students who wish to become better prepared as teachers in elementary schools. The field of study includes courses in child development, the curriculum, and investigations in teaching in the several areas in the elementary school.

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

Option B provides a sequence of courses designed to qualify teachers for positions in teaching mentally retarded children.

The courses in education and other fields for Options A and B follow:

OPTION A

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, 635, 640 or 641, 656, 657, 670, 671, 678 9 hrs.
3. Electives 11-15 hours
Courses in these fields are to be selected with approval of the adviser: anthropology, art, Bible and religion, education, science, English, geography, geology, history, home economics, library science, music, philosophy, political science, psychology, sociology and speech.

OPTION B

Teachers wishing to have the Professional Elementary Certificate endorsed for teaching mentally retarded children must complete the courses listed below or the equivalent thereof as partial requirements for the Master of Arts degree.

MINIMUM REQUIREMENTS 32-36 hours

1. Education 609, 616, 621 9 hrs.
2. Education 520, 533, 535, 540, 543 and 553 18 hrs.
3. Psychology 506 3 hrs.
4. Speech 518, 520 6 hrs.

To have the Professional Elementary Certificate endorsed for teaching mentally retarded children the teacher must also receive:

1. The recommendation of the county superintendent where he was last employed for two years as a teacher in an elementary school.
2. The recommendation of the State Supervisor of Special Education.
3. The recommendation of the college or university where he completed the course of study in the education of mentally retarded children.

B. PROGRAM FOR TEACHERS OF ART

Admission to the Art-Education program requires credit in 18 semester hours of art and the holding of a valid professional teaching certificate. 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 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.

C. PROGRAM FOR HIGH SCHOOL TEACHERS OF BIOLOGY

This program is for teachers who want additional preparation in the biological sciences.

Deficiencies in undergraduate preparation may be met while taking graduate courses. Students graduating under 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 expected to do readings pertaining to the teaching of biology.
2. Biological Science 18 hrs.
 A minimum of 15 hours must be taken from the following courses: Biological Science 502, 601, 602, 604, 607, 615, 616 and 630.
3. Electives 9 hrs.
 (Selected with approval of adviser.)

D. PROGRAM FOR TEACHERS OF BUSINESS

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

Students graduating under 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 by completing an appropriate curriculum in teacher education. Deficiencies in undergraduate preparation may be met while taking graduate courses.

MINIMUM REQUIREMENTS 32-36 hours

1. Education: Restricted election of advance professional education courses 6 hrs.
Note: Students electing to write theses must include Education 621.

2. 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.

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

4. 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.

E. PROGRAM FOR TEACHERS OF ENGLISH
IN SECONDARY SCHOOLS

This program is for teachers of English in junior and senior high schools. The undergraduate course requirements are a minimum of at least 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 conditionally are required to make up the deficiency prior to the comprehensive examination.

MINIMUM REQUIREMENTS 32-36 hours

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

2. English 512, 555, and one of the following: English 575, 631 or 632 9 hrs.

3. Education 621 or English 630 3 hrs.
4. Electives in Education and English 8-12 hrs.
(Students are required to do at least one-half of their work in English)

F. PROGRAM FOR TEACHERS OF HOME ECONOMICS

This program is for teachers working for the Master of Arts degree in home economics and education.

MINIMUM REQUIREMENTS 32-36 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, 616 or 648 6-9 hrs.
3. From Home Economics Education 506 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.

G. PROGRAM FOR TEACHERS OF PHYSICAL SCIENCE IN SECONDARY SCHOOLS

This program is for teachers who wish additional training in chemistry and physics. 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 taken concurrently with this program. The writing of a thesis is optional.

MINIMUM REQUIREMENTS 32-36 hours

1. From Education 560, 590, 609, 610, 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

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|---|----------|
| From Physics 640, 641, 642, 643, 644, 645, 646 | 12 hrs. |
| From Chemistry 620, 621, 622, 623, 624, 625 or other
courses chosen with consent of chairman of the Department
of Chemistry | 6 hrs. |
| 3. Electives in science, mathematics, or education | 5-9 hrs. |

H. PROGRAM FOR SCHOOL LIBRARIANS

This program is for teachers working for a master's degree with a field of specialization in school librarianship.

Requirements for admission to the program:

1. Graduation from an accredited college or university.
2. Twelve semester hours of library science in areas of school library administration, cataloging and classification, reference, and orientation in school library service. 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.)
3. Skill in typing.

MINIMUM REQUIREMENTS 36 hours

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|--|---------|
| 1. Education 590, 609, 610 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 field offering a graduate degree. Courses are to be selected with the joint 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.

I. PROGRAM FOR TEACHERS OF SOCIAL STUDIES IN SECONDARY SCHOOLS

For the purpose of this program, social studies includes economics, geography, history, political science, and sociology. This program is for teachers who wish to distribute the work for the master's degree over the general area of the social studies. Only teachers with at least 24 hours of undergraduate work in this general area are eligible to pursue this program.

The general pattern is as follows:

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|--|--------|
| 1. Professional and specialized courses | 9 hrs. |
| Education 667, Teaching Social Studies in
Secondary Schools | 3 hrs. |
| Education 648, Advanced Studies of
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 the requirements in this course to meet the needs of the student.)

2. Social Studies and electives 23-27 hrs.

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

b. The rest of the work may be distributed among the five fields in accordance with the needs and interests of the student, provided: First, that not more than 15 hours may be counted in any one of the social studies for credit; and, second, at least 6 hours must be earned in each of the social studies in undergraduate and graduate work combined for graduation.

c. After the minimum requirements in social studies are met, electives may be chosen from the following:

Art 501, History of Art to 1400 A.D.

Art 502, History of Art from 1400 to the Present.

Philosophy 510, The Philosophical Sources of American Culture.

Philosophy 519, Religious Thought in the Western World.

Education 541, Literary Materials for English and Social Studies.

J. PROGRAM FOR TEACHERS IN SECONDARY SCHOOLS

This program provides a sequence of professional and nonprofessional courses for those teachers in junior and senior high schools for whom provisions have not been made in the offerings of the Department of Education as outlined in other programs or in which a major is not available.

MINIMUM REQUIREMENTS 32-36 hours

1. Education 609, 610, 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.
PR: Enrollment in Education 405 or 450.
517. STATISTICAL METHODS. 3 hrs. S.
Elementary statistics for students in economics, education, political science and sociology.
PR: Consent of instructor. Enrollment in Education 405 or 450.
520. INTRODUCTION TO EXCEPTIONAL CHILDREN. 3 hrs. I, S.
An introduction to 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.
Provides for the study of procedures for creating a functional junior high curriculum with emphasis upon the needs of early adolescents.
533. THE MENTALLY RETARDED CHILD. 3 hrs. II, S.
Designed to acquaint the teachers with the characteristics of the mentally retarded, the status of the mentally retarded in our society and the impact of mental retardation on education.
PR: Education 420 or 520.
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. PRACTICUM WITH MENTALLY RETARDED CHILDREN. 3 hrs. II, S.
Supervised experiences directing learning activities with mentally retarded children; emphasis upon the application of research to varied teaching situations.
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.
PR: Enrollment in Education 450.
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 450.

553. CURRICULUM DEVELOPMENT FOR TEACHERS OF THE MENTALLY
RETARDED. 3 hrs. II, S.

Principles and current trends in curriculum development are reviewed and evaluated toward the development of specific curriculum for the mentally retarded. Methods and materials are presented in relation to this development.

PR: Education 420 or 520.

560. PHILOSOPHY OF EDUCATION. 3 hrs. I, II, S.

Basic philosophic schools and concepts and 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.

PR: Enrollment in Education 450.

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.

PR: 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; place of state and county boards of education; relation of school 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 principals; problems in organizing and directing the school program.
PR: Education 601.
606. **SUPERVISION OF INSTRUCTION: BASIC COURSE.** 3 hrs. I or II, S.
Principles; procedures used in improving instructional program in schools.
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.
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 special 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 a guidance program in elementary and secondary schools.
614. **COUNSELING TECHNIQUES.** 3 hrs. I or II, S.
Techniques employed by the counselor with emphasis on the place of the interview.
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 it.

- 617-618. FIELD COURSE IN CURRENT SCHOOL PROBLEMS. 3; 3 hrs.
Investigations in current problems confronting local schools; content determined by needs of students.
620. CONSERVATION EDUCATION. 3 hrs. S.
A course designed for teachers and others to provide basic conservation concepts and course content; the materials and methods for conservation teaching. Elements of conservation education 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 to individual problems.
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, to meet needs of the student; readings and reports on a group of outstanding contributions to education; readings selected with guidance of adviser. Only one registration for Education 640 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 used in collecting data, including test results, recording of data, and interpretation of tests and other 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 various occupations and professions.
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.
PR: Consent of instructor.
651. PRACTICUM IN TESTING AND COUNSELING. 3 hrs. S.
Designed to give majors in guidance and counseling an opportunity to gain practical experience in testing and counseling under professional supervision.
PR: Education 614, 646, and 647.

652. INVESTIGATIONS IN TEACHING OF ENGLISH IN SECONDARY SCHOOLS. 3 hrs.
Emphasis on particular 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.
Various techniques for teaching social studies with suggestions for procurement and use of pertinent materials.
668. TEACHING THE BIOLOGICAL SCIENCES. 3 hrs. S.
Methods, materials and techniques for teaching biology with emphasis on using demonstrations and laboratory experiences, projects and reports, planning and using field trips, using audio-visual aids, providing and maintaining equipment in a functional high school biology unit.
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 as revealed 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 learning experiences of student teachers.

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 receive 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

Assistant Professors Bisignano, Rollins

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

Each student is expected to select an area of literature as a specialty and concentrate 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 doing a graduate major in English must have an undergraduate background of at least 15 hours in English literature 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 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 conditionally are required to make up the deficiency prior to the comprehensive examination.

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.

512. STUDY OF POETRY. 3 hrs.

Theory and prosody, and principal types, forms, and themes.

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 to the twentieth century.

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.
Fundamentals of 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.
614. THE VICTORIAN NOVEL. 3 hrs.
Critical reading of the principal novelists.
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, Davis

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 or 530	3 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.** 2 hrs.

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

509. **GEOGRAPHY OF CANADA.** 2 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.

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513. GEOGRAPHY OF BRITISH ISLES. 2 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 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.

Geologic 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 candidates for 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.

A history of the country's 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.

516. HISTORIOGRAPHY AND METHODOLOGY. 3 hrs.

Survey of historical 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.

517. REPRESENTATIVE HISTORIANS AND THEIR WORKS. 3 hrs.

A general study of significant historians and their works from Herodotus to Toynbee.

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, and also diplomatic relations with non-European nations 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 and World War II and its aftermath are major topics of consideration.

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

The course deals with Russia under the Czars, the impact of serfdom, the essential failure of reforms, the revolutions and the Communist era stressing the impact of Communism on the world. Particular emphasis is placed on modern Russian foreign policy.

532. THE UNITED STATES SINCE 1914. 3 hrs.

A thorough study of 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, and social change and conflict.

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

A comprehensive study of the non-military and non-political aspects of the nation's life during the early laissez-faire period of the Industrial Revolution.

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

A treatment of all phases of the Civil War and the Reconstruction Era that followed.

610. READINGS IN HISTORY. 2-3 hrs.

These are readings dealing with selected topics particularly fitted to the need of the individual student. They may deal with any graduate area. Such a program 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. Dealing with 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.

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 are major topics considered.

622. THE FAR EAST IN THE 20TH CENTURY. 3 hrs.

This course begins with the Sino-Japanese War and stresses the rise of Japan to the position of a world power.

633. PROBLEMS IN AMERICAN HISTORY, 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 the student probes a selected problem within the period since 1917.

679. PROBLEM REPORT. 1-3 hrs.**681. THESIS. 1-6 hrs.**

HOME ECONOMICS

Associate Professors Burnette, Foose, 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 food nutrients as related to nutritional requirements of man. Reports of current nutrition research and other nutrition topics of current interest—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.
Principles of organization and management as applied to administration of food service in institutions.
513. EXPERIMENTAL COOKERY. 3 hrs.
Experimental study of chemical and physical factors affecting standard food preparation procedures.
PR: Home Economics 110 and 203, Chemistry 103 and 104.
515. FAMILY RELATIONSHIPS. 3 hrs. I, S.
A study of the interrelationships in the family in present day society as it progresses through the family life cycle, with some consideration of family life in other cultures.
516. PRENATAL AND INFANT CARE. 3 hrs. II, S.
A study of prenatal and postnatal care of the mother, and needs and care of the infant from birth to two years.
519. TAILORING. 3 hrs. S.
Selection, fitting and construction of tailored wool garments. A comparison of time and cost of different methods.
PR: Home Economics 329 or consent of instructor.
520. HOUSEHOLD EQUIPMENT. 3 hrs. I, II, S.
Principles underlying the selection, use, and care of household equipment.
540. NUTRITION IN THE HOME AND SCHOOL. 3 hrs. I, S.
A study of the 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.

Practical problems relating to modern decorating with consideration given to the selection and use of suitable fabrics and materials for making curtains, draperies, slipcovers, and reclaiming and refinishing furniture.

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.

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 students. 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. S.

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

601. EVALUATION IN HOME ECONOMICS. 3 hrs. S.

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

602. CURRICULUM DEVELOPMENT IN HOME ECONOMICS. 3 hrs. S.

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. S.

A course for experienced teachers of home economics who are interested in supervising student teachers.

PR: Open only to those who have served or are serving 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 designed for teachers interested in a minor or elective in journalism.

528. HIGH SCHOOL NEWSPAPERS. 3 hrs. II.

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

LIBRARY SCIENCE

Associate Professor Theis

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

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 determination of 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 adapted to the needs of adolescents and young adults correlated with the school program in all subject areas; critical evaluation of standard, classic and current 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.

Practical experience in the application of techniques of library service, adapted as far as possible to the student's needs. Experiences gathered in Laboratory School and affiliated schools.

PR: Fifteen hours of library science.

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 investigations and research concerning 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.

A survey of elementary and secondary school curriculums with emphasis on materials which can be used to enrich the teaching of the various subjects.

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

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

615. ADVANCED REFERENCE. 3 hrs. I, S.

A study of specialized reference tools.

PR: Library Science 315.

620. ADVANCED CATALOGING AND CLASSIFICATION. 3 hrs. S.

Study of 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.

A study of the problems relating to the interpretation of the library to its constituent and methods of handling these problems with emphasis on successful public relations programs.

630. TECHNICAL PROCESSES. 3 hrs. S.

Overview of 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. Emphasis given to selection, acquisition, organization and use of these materials.

PR: Library Science 615.

640. READINGS IN LIBRARIANSHIP. 1-3 hrs. I, II, S.

Guided 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 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.

548-549. FUNDAMENTAL CONCEPT OF GEOMETRY. 3; 3 hrs. I, II.

A broad study of the development of Euclidean Geometry as a specialization of Projective Geometry using synthetic and algebraic methods.

550-551. FUNDAMENTAL CONCEPTS OF MODERN ALGEBRA. 3; 3 hrs. I, II.

Set theory and logic with applications; number theory; groups; matrices, with applications; determinants.

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 Dauer, Lieberman, Perl, Fors, J. Martin

Associate Professor Noble

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. I, II.

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.

MUSIC

Professor Kingsbury

Associate Professors Creighton, Davidson, Drescher, Imperi, Jones,
Lanegger, O'Connell, Shepherd, Wolff

Assistant Professor Bass

Admission

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

General Requirements

The requirements for the degree of Master of Arts in music education may be met by completing a minimum of 32 semester hours of graduate work of which not more than 6 hours may be earned by submitting a thesis. The thesis may be in the form of 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 completed 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 the Ohio State Psychological Examination as well as 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.

Music Education—Instrumental Emphasis

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

Music Education—Vocal Emphasis

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

Music Education—Supervision of Public School Music

(Special Supervisor's Certificate)

A student wishing to earn a master's degree 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.

Music History and Literature

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 cantata. 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. AESTHETICS OF MUSIC. 2 hrs.

The principles of the aesthetics of music and related arts and the nature of musical experience. Studies in analysis and criticism.

Music Education

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.

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 six 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.

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 IN MUSIC EDUCATION. 1-3 hrs.
679. PROBLEM REPORT. 1-3 hrs.
681. THESIS. 1-6 hrs.

Theory and Composition

- 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.

- 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.

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.
- 597. PIANO TUNING AND REPAIR. 2 hrs.
- 598. PIANO TUNING AND REPAIR. 2 hrs.

PHILOSOPHY

Associate Professor Jennings

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

- 510. PHILOSOPHICAL SOURCES OF AMERICAN CULTURE. 3 hrs. Alternate Years, S.
Study of a selected group of ancient, medieval, and modern thinkers who have been influential in determining basic American beliefs and ideals in religion, science, morality, politics, economics, and education.
- 511. JOHN DEWEY: PHILOSOPHER AND EDUCATOR. 3 hrs. Alternate Years, S.
Exposition of Dewey's entire philosophy as a background for his views on education.
- 519. RELIGIOUS THOUGHT IN WESTERN WORLD. 3 hrs. II, S.
A study of the directions the philosophy of religion has taken in the western world, including an analysis of the principal religious philosophies of the present.

PHYSICAL EDUCATION

Professors: Fitch, Gaynor, Josephs, McDonough

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

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

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

A study of the nature and purpose of measurement and evaluation in the fields of health and physical education. Evaluation of available tests and practice in administration of tests. Lectures and laboratory work.

575. PRINCIPLES AND TECHNIQUES OF RECREATION LEADERSHIP. 3 hrs.

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

Emphasis will be placed upon methods and materials applicable to planning and directing various types of activities in recreational situations.

582-583-584-585. SPECIAL TOPICS. 1-3; 1-3; 1-3; 1-3 hrs.

Total credit to be earned under this course number not to exceed four hours.

586. WORKSHOP IN PHYSICAL EDUCATION. 3 hrs.

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

600. DANCE COMPOSITION IN EDUCATION. 2 hrs.

Extended work in the area of individual and group composition or choreography of dance. This course also includes a study of methods, curricular materials and evaluation procedures in the teaching of dance.

605. CAMP COUNSELING. 3 hrs.

A course for students interested in camp positions. Discussion of types of camps, objectives of camping, principles and practices in program making. Evaluating activities, description of camp programs, policies, health and safety problems.

606. CAMP PROGRAMS FOR THE HANDICAPPED CHILD. 2 hrs.

A study of existing camp procedures for the handicapped throughout the United States and practice in the development of suitable camp programs to meet the needs of atypical individuals.

621. FUNDAMENTAL SCIENCES APPLIED TO PHYSICAL EDUCATION. 3 hrs.

Analysis of the sciences in terms of their application to improve body functions and general well-being. Emphasis is placed on interrelation of facts and principles from physics, anatomy, and physiology in order to better understand the problems of body mechanics and posture in developing movement efficiency.

622. **PHYSICAL EDUCATION FOR THE ATYPICAL INDIVIDUAL.** 2 hrs.

A study of prevalent disabilities and the principles and philosophies involved in the general organization and supervision of adapted programs of physical education for the physically handicapped. The course includes field trips to hospitals and clinics, etc.

626. **HISTORY AND PHILOSOPHY OF PHYSICAL EDUCATION.** 3 hrs.

The study of the history and principles of physical education with application to general education, physiology, psychology, health and recreation.

An historical analysis of the forces and factors affecting programs of physical education. Philosophical bases are developed from which basic principles are evolved to serve as guides in the profession.

630. **PRINCIPLES OF HEALTH AND PHYSICAL EDUCATION.** 3 hrs.

A study of the fundamental principles which have been developed from the basic sciences; and the relationship of these principles to the health and physical education programs.

635. **CURRICULUM CONSTRUCTION IN HEALTH AND PHYSICAL EDUCATION IN GRADES 1-12.** 3 hrs.

A study of principles, objectives, and procedures in curriculum construction of a health and physical education program. Typical programs studied and evaluated. Practice in curriculum construction for grade levels 1-12 in health and physical education.

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, and classification of activities are considered in relation to various levels of school and the necessary routine procedure for effective administration.

645. **PROBLEMS OF SUPERVISION OF HEALTH AND PHYSICAL EDUCATION IN THE ELEMENTARY AND SECONDARY SCHOOLS.** 3 hrs.

A critical analysis of current problems in health and physical education in the light of sound principles relating to the school. Projects, readings and reports to meet the needs of students having special problems in health and physical education. Also, the opportunity to experience problems of supervision in city, county, and state school systems.

650. **ADMINISTRATION OF SCHOOL AND COMMUNITY RECREATION.** 2 hrs.

A study of problems related to 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 will be studied.

Theory and practice in the organization and administration of recreation programs are experienced with special emphasis on supervision, study of facilities, equipment, and program content.

655-656-657-658-659. ADMINISTRATION OF SCHOOL ATHLETIC PROGRAMS.

1; 1; 1; 1; 1 hr.

Concerned with all phases of the interscholastic and intercollegiate sports programs. Problems and practices in regards to coaching and administrative procedures in promoting these programs in regard to necessary 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 of work, carrying one to five hours total credit. The five one-hour units of work will cover the following: 655, administration of the athletic programs; methods of coaching; 656, football; 657, basketball; 658, wrestling; and 659, prevention, care and treatment of athletic injuries.

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

To develop an understanding of 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 with the purpose of preparing the student to engage in active research.

681. THESIS. 1-6 hrs.

Guidance and directions 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.

PR: Physical Education 565 and 670 and Education 621.

POLITICAL SCIENCE

Professors Stewart, Harper

Assistant Professors Choi, Perry

Graduate work in political science is planned 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 in political science must present 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 ORGANIZATION. (formerly International Relations) 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. (formerly Contemporary World Politics) 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 Egypt, Turkey, Iran, Afghanistan, 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. READINGS 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 Loemker, Wolf

Associate Professors Gorman, Ward

Applicants for admission to the graduate program 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 the Wechsler scales; evaluation of test results.
PR: Twelve hours of psychology including Psychology 406 or 506 or its equivalent.
612. **PSYCHOLOGICAL TESTS II.** 3 hrs. I (Concurrent with Psychology 611).
Instruction and practice in the use of other tests of intelligence and aptitudes, and 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. Which tests are appropriate to answer specific problems? 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. **PSYCHOLOGICAL RESEARCH I.** 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. **PSYCHOLOGICAL RESEARCH II.** 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.
679. **PROBLEM REPORT.** 1-3 hrs.
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.
A survey course designed for supervisors of traffic accident prevention programs. Examines and evaluates problems, attitudes, philosophies, activities and administrative practices in school, city and state traffic safety programs. Supplements basic teacher training courses in traffic safety.

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 Hoback, Whelpley, Wotiz, Bartlett

Associate Professor Digman

Assistant Professors Chakrabarty, Hanrahan, Heindel, Moore

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.

620-621.* FUNDAMENTALS OF CHEMISTRY. 3; 3 hrs. S. Offered on demand.

Two 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.

624-625. PHYSICAL. 3; 3 hrs. S. Offered on demand.

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

PR: Chemistry 621 or equivalent.

Physics

Professor D. Martin

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 Richardson, Habel, Simpkins

Anthropology**526. THE NEGRO IN AFRICA AND AMERICA. 3 hrs. I. (formerly Sociology 526)**

Survey of Negro African cultures leading to analysis of the contemporary position of the Negro in North and South America.

527. ETHNIC RELATIONS. 3 hrs. II. (formerly Sociology 527)

Theoretical analysis of the conditions and consequences of ethnic and cultural contact with emphasis on the role of Western European culture.

530. THE AMERICAN INDIAN. 3 hrs. II, S. (formerly Sociology 530)

Comparative study of both pre-Columbian Indian cultures and post-Columbian changes.

Sociology

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

1. Presentation of an acceptable score on the Ohio State Psychological Examination or some other test of scholastic aptitude is required. It is strongly recommended that the student take the Graduate Record Examination in his senior year.
2. A student must have completed a minimum of 12 semester hours of approved courses in sociology.
3. Complete 18 hours of sociology including Sociology 521, 601, 670 and 671. Statistics for Sociology is strongly urged for graduate students.

4. Complete a minimum of 6 hours or a maximum of 12 hours in some acceptable field as a minor for the degree being sought.
 5. Pass a comprehensive written examination covering the field of concentration in sociology.
 6. Pass an oral examination in defense of his thesis. The student's adviser serves as chairman of the committee.
-
501. **POPULATION PROBLEMS.** 3 hrs. I.
Study of quantitative and qualitative factors in population growth and trends in significant areas of the world with emphasis on social and cultural implications. Introduction to demographic theory and research methods.
 503. **SOCIAL INVESTIGATION.** 3 hrs. II.
Advanced methodology of research in sociology with emphasis on techniques of investigation, data analysis, and research design.
 508. **THE FAMILY.** 3 hrs. II.
Theoretical analysis of the family as a primary social institution, with emphasis on the impact of industrialization on family structure and function.
 512. **GROUP RELATIONS.** 3 hrs. I.
Study of the dynamics of small groups with emphasis on role theory.
 521. **HISTORY OF SOCIAL THOUGHT.** 3 hrs. I.
Survey of sociological thinking with emphasis on the development of sociological theory.
 529. **SOCIAL LEGISLATION.** 3 hrs. I.
Study of contemporary social welfare legislation and its implications for society.
 531. **CLASSROOM AND FIELD STUDIES.** 3 hrs. II, S.
Introduction to the principles of social casework and counseling.
 533. **INDUSTRIAL SOCIOLOGY.** 3 hrs. II, S.
The sociology of work, including industrial organization, human relations in industry, and bureaucracy.
 535. **PROBLEMS OF JUVENILE DELINQUENCY.** 3 hrs. II.
Theories of delinquency causation and prevention; organization and functions of social agencies operating in the field.
 536. **AGING IN WESTERN CULTURE.** 3 hrs. II.
Study of the problems associated with maturity, retirement, and old age in contemporary industrial societies.
 539. **SOCIAL STRATIFICATION.** 3 hrs. I, S.
Analysis of various theories of stratification and systems of class and caste, with emphasis on the American class system.

601. **SOCIOLOGICAL THEORY.** 3 hrs. II.
Study of contemporary sociological theories and their relation to research in human behavior.
602. **CONTEMPORARY SOCIAL CHANGE.** 3 hrs. I.
Study of various theories of social change; techniques and processes; and the implications of social change in the contemporary world.
611. **SOCIAL PATHOLOGY.** 3 hrs. II.
Seminar in social maladjustment and disorganization and their consequences.
612. **SOCIAL MOVEMENTS.** 3 hrs. II.
Seminar in the theory of social movements and other collective phenomena with analysis of selected examples.
620. **SEMINAR IN DELINQUENCY AND CRIMINOLOGY.** 3 hrs. I.
Seminar in theories of crime and delinquency.
625. **SOCIAL CONTROL.** 3 hrs. II, S.
Seminar in processes and mechanisms of social control.
632. **RURAL SOCIAL ORGANIZATION.** 3 hrs. I, S.
Seminar in rural social organization.
668. **SEMINAR.** 1-3 hrs. I, II, S.
Topics vary from semester to semester.
- 670-671. **RESEARCH.** 2; 2 hrs. I, II, S.
Independent research in preparation for the thesis.
679. **PROBLEM REPORT.** 1-3 hrs.
681. **THESIS.** 1-6 hrs. I, II, S.
Topic chosen under guidance of student's adviser and thesis committee.

SPEECH

Professors Hoak, Buell, Hope, Ranson
Associate Professors Garrett, Novak, Page

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

Students for the master's degree in speech are expected 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. An overall minimum quality point average of 2.5 (C+) is required for admission.
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.
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.
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. (Formerly Speech 339.)
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.

550. THE DIRECTION OF SPEECH ACTIVITIES. 3 hrs. II.

For those responsible for extra-curricular speech: debate, extempore speaking, oral reading, discussion, oratory.

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 actual 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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COLOPHON

*Body type is 9-point Linotype Bookman.
Other types used are Linotype
Trade Gothic and Ludlow Tempo.*

*Paper is 60-pound Beckett Brilliant
Opaque Vellum Finish.
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