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**1969-70**  
**Marshall University**



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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CATALOG  
of the  
GRADUATE SCHOOL  
1969-1970

HUNTINGTON, WEST VIRGINIA



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## OFFICERS OF ADMINISTRATION

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DONALD N. DEDMON, B.S., M.A., Ph.D. ....	<i>Executive Vice President</i>
A. MERVIN TYSON, A.B., M.A., Ph.D. ....	<i>Vice President of Academic Affairs</i>
JOSEPH S. SOTO, A.B., B.S., M.A. ....	<i>Vice President of Business</i>
JOSEPH PETERS, B.S., M.B.A. ....	<i>Director of Finance</i>
JOHN S. CALLEBS, A.B., M.A. ....	<i>Director of Development</i>
ROBERT BRUCE HAYES, A.B., Ed.M., Ed.D. ....	<i>Dean, Teachers College</i> <i>Dean, College of Arts and Sciences</i>
AMBROSE EVERETT McCASKEY, JR., B.S.C.E., M.S.C.E., Ph.D. ....	<i>Dean</i> <i>College of Applied Sciences</i>
JOHN R. WARREN, A.B., M.A., Ph.D. ....	<i>Dean, Graduate School</i>
R. W. MORELL, M.B.A., Ph.B., Ph.D. ....	<i>Dean, School of Business</i>
CONSTANTINE W. CURRIS, A.B., M.A., Ed.D. ....	<i>Dean of Student</i> <i>Personnel Programs</i>
LILLIAN HELMS BUSKIRK, A.B., M.A. ....	<i>Associate Dean of Student</i> <i>Personnel Programs</i>
DONALD K. CARSON, B.A., M.A. ....	<i>Associate Dean of Student</i> <i>Personnel Programs</i>
ROBERT U. EDDINS, B.S., M.S. ....	<i>Registrar (Acting)</i>
PAUL H. COLLINS, A.B., M.A. ....	<i>Director of Continuing Education</i>
BRIAN O'CONNOR, B.A., M.S. ....	<i>Director of Admissions</i>
HAROLD WILLIAM APEL, A.B., M.S. in Library Science ....	<i>Librarian</i>
JAMES A. MARTIN, A.B. ....	<i>Director of Information and Publications</i>
ROBERT P. ALEXANDER, A.B., M.A., Ph.D. ....	<i>Director of Career Planning</i> <i>and Placement</i>
HARRY M. SANDS, B.B.A. ....	<i>Director of Alumni Affairs</i>

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

**Admission**

Dean of the Graduate School

**Adult Education**

Director of Continuing Education

**Alumni Affairs**

Director of Alumni Affairs

**Business Matters, Expenses**

Vice President of Business

Director of Finance

**Employment, Placement**

Director of Career Planning and Placement

**Graduate Study**

Dean of the Graduate School

**Student Housing**

Housing Director and Facilities Coordinator

**Scholarships and Loans**

Financial Aid Officer

**Transcripts, Records**

Office of the Registrar

**Veteran's Affairs**

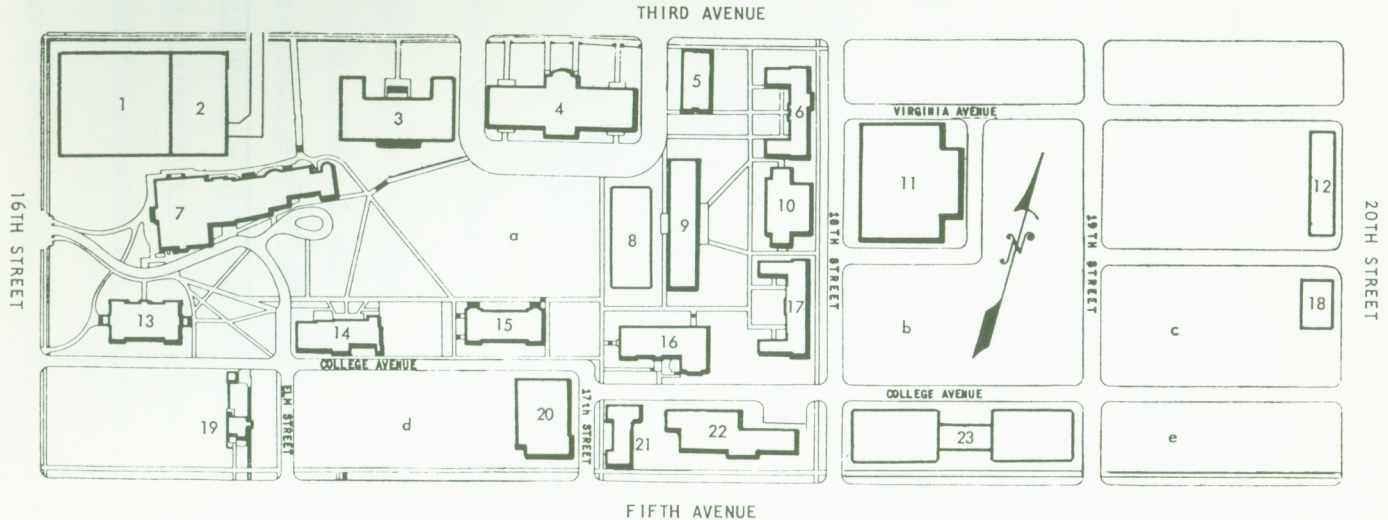
Veteran's Adviser

**Student Affairs**

Dean of Student Personnel Programs



# MARSHALL UNIVERSITY



## Key

- |                                     |   |                                    |                           |
|-------------------------------------|---|------------------------------------|---------------------------|
| 1. Evelyn Hollberg Smith Music Hall | 9. Prichard Hall                        | 16. Jenkins Laboratory School      | a. Intramural Field       |
| 2. Stewart Harold Smith Hall        | 10. University Dining Hall              | 17. Hodges Hall                    | b. Athletic Field         |
| 3. James E. Morrow Library          | 11. Gullickson Hall                     | 18. Temporary Engineering Building | c. Intramural Field       |
| 4. Science Building                 | 12. Maintenance Building                | 19. Nursery                        | d. University Center Site |
| 5. TV Building                      | 13. Northcott Hall                      | 20. Campus Christian Center        | e. Intramural Field       |
| 6. Laidley Hall                     | 14. Shawkey Student Union               | 21. Laboratory School Annex        |                           |
| 7. Old Main                         | 15. Women's Physical Education Building | 22. South Hall                     |                           |
| 8. West Hall                        |   | 23. Twin-Towers Dormitory          |                           |



# Marshall University

## Graduate School Calendar 1969-1970

### FIRST SEMESTER

September 9 .....	Faculty and Staff Meetings
September 12 .....	Registration for New Undergraduate Students
September 12, 6:30 p.m.-8:30 p.m. ....	Registration for Evening Students Full- and Part-Time, and Graduate Students
September 12, 6:30 p.m.-8:30 p.f. ....	Registration for Evening Students
September 13, 8:30-11:30 a.m. ....	Registration Continues
September 15, 8:00 a.m. ....	Classes Begin
September 20, 8:30-11:30 a.m. ....	Last Day of Late Registration and Adjusting Schedules
October 15 .....	WP or WF Period Begins
November 1 .....	Homecoming
November 11 .....	Mid-Semester Progress Reports Due
November 17-26 .....	Counseling for Second Semester
November 26, 12:00 noon .....	Thanksgiving Recess
December 1, 8:00 a.m. ....	Class Work Begins
December 20 — Close of Classes .....	Christmas Recess
January 5, 8:00 a.m. ....	Class Work Begins
January 9 .....	Final Draft of Theses Due in Offices of Advisers
January 13-24 .....	Oral Examination for Master's Degree
January 17 .....	Written Examination for Master's Degree
January 19-24 .....	Semester Examination Period
January 23 .....	Approved Theses Due in Office of Graduate School
January 24 .....	Semester Ends
January 27, 4:00 p.m. ....	Semester Grades Due in Registrar's Office

## SECOND SEMESTER

---

January 29 ..... Orientation and Registration  
January 30, 8:00 a.m.-3:30 p.m. .... Registration  
January 30, 6:30-8:30 p.m. .... Registration for Evening Students  
January 31, 8:30-11:30 a.m. .... Registration Continues  
February 2, 8:00 a.m. .... Class Work Begins  
February 7, 8:30-11:30 a.m. .... Last Day of Late Registration and  
Adjusting Schedules  
March 2 ..... WP or WF Period Begins  
March 25—Close of Classes ..... Easter Recess  
March 31 ..... Class Work Begins  
March 31 ..... Mid-Semester Progress Reports Due  
May 1 ..... Final Draft of Theses Due in Offices of Advisers  
May 5-9 ..... Counseling for Fall Semester  
May 5-16 ..... Oral Examination for Master's Degree  
May 9 ..... Written Examination for Master's Degree  
May 15 ..... Approved Theses Due in Office of Graduate School  
May 19 ..... Final Grades of Graduating Students Due in  
Registrar's Office  
May 25-30 ..... Semester Examination Period  
May 30 ..... Alumni Days  
May 31 ..... Baccalaureate and Commencement  
June 2, 4:00 p.m. .... Semester Grades Due in Registrar's Office



## SUMMER SESSION 1970

---

### First Term

June 15, 8:00 a.m.-3:30 p.m. .... Registration  
June 16, 7:30 a.m. .... Class Work Begins  
July 9 ..... Final Draft of Theses Due in Offices of Advisers  
July 4 ..... No Classes—Independence Day  
July 10-17 ..... Oral Examination for Master's Degree  
July 11 ..... Written Examination for Master's Degree  
July 17 ..... Approved Theses Due in Office of Graduate School  
July 17 ..... First Term Ends  
July 21, 4:00 p.m. .... Grades Due in Registrar's Office

### Second Term

July 20, 8:00 a.m.-3:30 p.m. .... Registration  
July 21, 7:30 a.m. .... Class Work Begins  
August 13 ..... Final Draft of Theses Due in Offices of Advisers  
August 14-21 ..... Oral Examination for Master's Degree  
August 15 ..... Written Examination for Master's Degree  
August 21 ..... Approved Theses Due in Office of Graduate School  
August 21 ..... Second Term Ends  
August 25, 4:00 p.m. .... Grades Due in Registrar's Office  
*Term Expires*

## THE GRADUATE COUNCIL

John R. Warren, Ph.D., <i>Dean of the Graduate School</i> .....	Chairman
Manoj Ranjan Chakrabarty, Ph.D., <i>Associate Professor of Chemistry</i> .....	1971
Sam Edward Clagg, Ed.D., <i>Chairman, Department of Geography</i> .....	1970
Edwin A. Cubby, Ph.D., <i>Chairman, Department of Social Studies</i> .....	1969
C. Lawrence Kingsbury, Ed.D., <i>Chairman, Department of Music</i> .....	1969
Marvin O. Mitchell, Ph.D., <i>Professor of English</i> .....	1969
Charles Hill Moffat, Ph. D., <i>Chairman, Department of History</i> .....	1971
Simon Daniel Perry, Ph.D., <i>Professor of Political Science</i> .....	1970
Harold Eugene Ward, Ph.D., <i>Chairman, Department of Biological Science</i>	1970
A. Mervin Tyson, 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.*

- FRANCIS KAZIMER ALDRED, *Associate Professor of History*, 1967  
Ph.D. 1967, University of Virginia
- SARA E. ANDERSON, *Professor of Business Administration*, 1966  
Ed.D. 1964, Indiana University
- HOMER ARHELGER, *Professor of Education*, 1962  
Ed.D. 1962, Indiana University
- STANLEY WEST ASH, *Associate Professor of Biological Science*, 1956  
M.A. 1954, Marshall University; graduate study, The University of Pennsylvania
- PAUL A. BALSHAW, *Assistant Professor of Music*, 1965  
A.M.D. 1963, Eastman School of Music
- HARRY BARBA, *Professor of English and Director of Writing*, 1968  
Ph.D. 1963, University of Iowa
- THOMAS BAUSERMAN, *Professor of Mathematics*, 1955  
Ph.D. 1961, University of Pittsburgh
- GRACE BENNETT, *Professor of Home Economics*, 1965  
Ph.D. 1957, Purdue 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, *Professor of Social Studies*, 1955  
D.S.S. 1959, Syracuse University
- ELMER ROSS BROWNING, *Professor of Business Administration*, 1968  
Ed.D. 1942, Colorado State College
- STEPHEN D. BUELL, *Professor of Speech, and Director of Radio and Television*, 1955  
Ph.D. 1962, The Ohio State University
- MARGARET COLINA CAMPBELL, *Associate Professor of Education*, 1956  
M.A. 1956, George Peabody College; graduate study, George Peabody College.
- ARTHUR SIDNER CARPENTER, *Professor of Art*, 1951  
Ed.D. 1958, Pennsylvania State University
- MANOJ RANJAN CHAKRABARTY, *Associate Professor of Chemistry*, 1963  
Ph.D. 1962, University of Toronto

- SOO BOCK CHOI, *Associate Professor of Political Science*, 1963  
Ph.D. 1963, University of Maryland
- SAM EDWARD CLAGG, *Professor of Geography*, 1948  
Ed.D. 1955, University of Kentucky
- PAUL H. COLLINS, *Associate Professor of Education and Director of Admissions and Adult Education*, 1949  
M.A. 1943, West Virginia University; graduate study, Harvard University, University of Virginia
- ERIC VANE CORE, *Associate Professor of Education*, 1957  
M.A. 1937, West Virginia University; graduate study, University of Virginia
- JOHN WALKER CREIGHTON, *Associate Professor of Music*, 1945  
M.A. 1942, Northwestern University; graduate study, Saint Louis University, Juilliard School of Music, Ohio University, Northwestern University
- EDWIN ALBERT CUBBY, *Professor of Social Studies*, 1949  
Ph.D. 1962, Syracuse University
- WILLIAM ROGER DAVIDSON, *Associate Professor of Music*, 1955  
M.Mus. 1947, University of Illinois; graduate study, University of Illinois, Columbia University
- DONALD N. DEDMON, *Dean of the College of Arts and Sciences and Professor of Speech*, 1968  
Ph.D. 1961, University of Iowa
- JAMES EDWARD DOUGLASS, *Associate Professor of Chemistry*, 1965  
Ph.D. 1959, University of Texas
- JOANNE C. DRESCHER, *Associate Professor of Music*, 1950  
M.Mus. 1948, Indiana University; graduate study, Florida State University, University of Denver
- WARREN LLOYD DUMKE, *Assistant Professor of Physics*, 1967  
Ph.D. 1965, University of Nebraska, postdoctorate study, University of Utah
- 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
- DANNY GREYSON FULKS, *Assistant Professor of Education*, 1961  
Ed.D. 1968, University of Tennessee
- RUTH COFFMAN GARRETT, *Associate Professor of Speech*, 1953  
Ph.D. 1968, Ohio University
- ROBERT S. GERKE, *Assistant Professor of English*, 1968  
Ph.D. 1968, University of Notre Dame
- NEIL LOUIS GIBBINS, *Professor of Education*, 1963  
Ph.D. 1960, The Ohio State University
- BILLY KENNETH GORDON, *Assistant Professor of Education*, 1967  
Ed.D. 1967, University of Kentucky
- REX CAMERON GRAY, *Associate Professor of Education*, 1948  
M.A. 1941, West Virginia University; graduate study, University of  
Minnesota, University of Virginia, George Washington University
- NORMAN BAYARD GREEN, *Professor of Zoology*, 1938  
Ph.D. 1952, The Ohio State University
- SAMUEL TILDEN HABEL, *Professor of Sociology*, 1964  
Ph.D. 1945, The University of Edinburgh
- EDWARD STEPHENSON HANRAHAN, *Associate Professor of Chemistry*  
1963  
Ph.D. 1959, West Virginia University
- GEORGE JAMES HARBOLD, *Professor of Speech*, 1947  
Ph.D. 1955, The Ohio State University
- DENNIS HUNTER HARDMAN, *Professor of Mathematics*, 1946  
Ph.D. 1963, University of Pittsburgh
- ROBERT BRUCE HAYES, *Dean of the Teachers College and Professor of  
Education*, 1965  
Ed.D. 1960, University of Kansas
- HERSCHEL HEATH, *Professor of History*, 1947  
Ph.D. 1933, Clark University
- CLARKE FREAS HESS, *Professor of Education*, 1951  
Ed.D. 1958, University of Pennsylvania
- EUGENE QUINTER HOAK, *Professor of Speech*, 1960  
Ph.D. 1954, The Ohio State University
- JOHN HOLLAND HOBACK, *Professor of Chemistry*, 1945  
Ph.D. 1947, West Virginia University
- DOUGLAS T. HOLDEN, *Associate Professor of Philosophy*, 1968  
Ph.D. 1966, St. Andrews University

- BEN WALTER HOPE, *Professor of Speech*, 1947  
Ph.D. 1960, The Ohio State University
- LOUISE PRICE HOY, *Professor of Classical Languages*, 1963  
Ph.D., 1952, Bryn Mawr College
- HELEN SCOTT HUNTER, *Assistant Professor of Education*, 1957  
M.A. 1956, Marshall University; graduate study, University of Michigan
- LEO VICTOR IMPERI, *Associate Professor of Music*, 1952  
M.A. 1951, Columbia University; graduate study, Columbia University,  
University of Denver
- JAMES EDWARD IRVIN, *Professor of Education*, 1959  
Ph.D. 1958, The Ohio State University
- OFFA LOU HARRIS JENKINS, *Associate Professor of Education*, 1965  
Ed.D. 1967, University of Virginia
- LOUIS BROWN JENNINGS, *Professor of Bible and Religion*, 1948  
Ph.D. 1964, University of Chicago
- LAVELLE THOMPSON JONES, *Associate Professor of Music*, 1947  
M.A. 1942, George Peabody College; graduate study, George Peabody  
College, University of Denver, Cincinnati Conservatory of Music, Temple  
University, University of Maine
- CHARLES LAWRENCE KINGSBURY, *Professor of Music*, 1950  
Ed.D. 1945, Indiana University
- CHANG LYOUNG KONG, *Assistant Professor of Chemistry*, 1967  
Ph.D. 1967, St. Louis University
- ALFRED P. LANEGGER, *Associate Professor of Music*, 1947  
M.M. 1947, Syracuse University; diploma, State Academy of Music,  
Munich
- JOHN W. LARSON, *Assistant Professor of Chemistry*, 1968  
Ph.D. 1969, Carnegie-Mellon University
- ARTHUR R. LEPLEY, *Professor of Chemistry*, 1965  
Ph.D. 1958, University of Chicago
- JOSEPH MELVILLE LICHTENSTEIN, *Associate Professor of Education*, 1946  
M.A. 1940, Fordham University; graduate study, Columbia University,  
Rutgers University, University of Cincinnati, New York University
- JULIUS LIEBERMAN, *Professor of Modern Languages (German)*, 1946  
Ph.D. 1943, University of Cincinnati
- IRVING LILLIEN, *Associate Professor of Chemistry*, 1967  
Ph.D. 1960, Brooklyn Polytechnic Institute
- JOHN G. E. LITTLER, *Assistant Professor of Chemistry*, 1968  
Ph.D. 1965, University of Nottingham
- KENNETH KARL LOEMKER, *Professor of Psychology*, 1930  
Ph.D. 1941, University of Chicago



- THOMAS JOSEPH MANAKKIL, *Assistant Professor of Physics*, 1967  
Ph.D. 1967, New Mexico State University
- DONALD CLAYTON MARTIN, *Professor of Physics*, 1943  
Ph.D. 1936, Cornell University; postdoctorate study, Northeastern University, University of New Mexico
- JOHN LEWIS MARTIN, *Professor of Modern Languages (Spanish)*, 1935  
Ph.D. 1940, University of Pittsburgh
- LOUISE McDONOUGH, *Professor of Physical Education*, 1929  
M.A. 1929, Columbia University; graduate study, Columbia University, State University of Iowa
- HARRY ALBERT MCGUFF, *Professor of Business Administration*, 1967  
D.B.A. 1966, Indiana University
- CARL BARTH MILLER, *Associate Professor of Business Administration*, 1946  
M.A. 1942, Northwestern University; graduate study, University of Kentucky, University of Colorado, Boston University
- HOWARD LEONARD MILLS, *Professor of Botany*, 1951  
Ph.D. 1951, State University of Iowa
- MARVIN O'NEILL MITCHELL, *Professor of English*, 1952  
Ph.D. 1953, University of North Carolina
- PHILIP EUGENE MODLIN, *Assistant Professor of Biological Science*, 1957  
M.A. 1957, Marshall University; graduate study, West Virginia University
- CHARLES HILL MOFFAT, *Professor of History*, 1946  
Ph.D. 1946, Vanderbilt University
- WOODROW WILSON MORRIS, *Professor of Education*, 1950  
Ph.D. 1954, The Ohio State University
- ELAINE ADAMS NOVAK, *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
- ROBERT DEAN OLSON, *Professor of Speech*, 1968  
Ph.D. 1965, Northwestern University
- CLAYTON R. PAGE, *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 Modern Languages (French)*, 1947  
M.A. 1940, University of Kentucky; graduate study, University of Kentucky

- WALTER H. PERL, *Professor of Modern Languages (German)*, 1948  
Ph.D. 1936, University of Zurich
- SIMON DANIEL PERRY, *Professor of Political Science*, 1962  
Ph.D. 1960, Michigan State University
- WILLIAM PAGE PITT, *Professor of Journalism*, 1926  
M.S.J. 1930, Columbia University
- PHILIP PITTMAN, *Assistant Professor of English*, 1968  
Ph.D. 1967, Vanderbilt University
- JOHN CULPEPPER PLOTT, *Assistant Professor of Philosophy*, 1965  
Ph.D. 1965, Banaras Hindu University
- EDWARD LEWIS PLYMALE, *Professor of Botany*, 1946  
Ph.D. 1942, State University of Iowa
- KENNETH LLOYD POFF, *Assistant Professor of Biological Science*, 1947  
Ph.D. 1968, West Virginia University
- BERNARD QUEEN, *Associate Professor of Education*, 1963  
Ph.D. 1967, The Ohio State University
- ALLEN OTIS RANSON, *Professor of Speech*, 1931  
M.S. 1935, University of Wisconsin
- WALTER EDWIN REGULA, *Associate Professor of Education*, 1963  
Ph.D. 1965, The Ohio State University
- CHARLES CASS RITCHIE, JR., *Associate Professor of Education*, 1959  
Ed.D. 1963, West Virginia University
- JOSEPH L. ROBERTS, *Assistant Professor of Chemistry*, 1966  
Ph.D. 1964, University of Cincinnati
- CHARLES SHELBY RUNYAN, *Professor of Education*, 1953  
Ed.D. 1953, University of Missouri
- JOHN HARVEY SAUNDERS, *Assistant Professor of History*, 1968  
Ph.D. 1966, University of Georgia
- C. B. SHARMA, *Assistant Professor of Chemistry*, 1968  
Ph.D. 1964, Texas A&M University
- JANE BOEDEKER SHEPHERD, *Professor of Music*, 1958  
M.M. 1942, Cincinnati Conservatory; graduate study, Juilliard School of Music
- JON PHILLIP SHOEMAKER, *Assistant Professor of Zoology*, 1964  
Ph.D. 1964, Auburn University
- O. NORMAN SIMPKINS, *Professor of Sociology*, 1948  
Ph.D. 1953, University of North Carolina
- HOWARD A. SLAATTE, *Professor of Philosophy*, 1965  
Ph.D. 1956, Drew University



- THEODORE L. SOISTMANN, JR., *Assistant Professor of Education*, 1966  
Ed.D. 1966, University of Tennessee
- HARVEY NELSON STERNS, *Associate Professor of Education*, 1969  
Ph.D. 1968, University of Michigan
- 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
- PHIL EDWARD SUITER, *Assistant Professor of Education*, 1966  
Ph.D. 1969, The Ohio State University
- WILLIAM P. SULLIVAN, *Professor of English*, 1968  
Ph.D. 1961, Columbia 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, *Associate Professor of Mathematics*, 1955  
M.S. 1955, West Virginia University
- TAYLOR EDWARD TURNER, JR., *Associate Professor of Education and Director of Reading Center*, 1968  
Ed.D. 1967, University of Virginia
- A. MERVIN TYSON, *Vice President of Academic Affairs and Professor of English*, 1959  
Ph.D. 1952, University of Pennsylvania
- WILLIAM ANDREW WALLACE, *Associate Professor of Education*, 1967  
Ed.D. 1966, Wayne State University
- GEORGE WARD, II, *Professor of Psychology*, 1962  
Ph.D. 1961, The Ohio State University
- HAROLD EUGENE WARD, *Professor of Biological Science*, 1950  
Ph.D. 1964, The Ohio State University
- JOHN RUSH WARREN, *Dean of the Graduate School and Professor of Botany*, 1964  
Ph.D. 1950, The Ohio State University

HAROLD LEE WILLEY, *Professor of Education*, 1946

Ed.D. 1958, University of Tennessee

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

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

ELIZABETH BAKER WOLFE, *Professor of Psychology*, 1960

Ph.D. 1946, Western Reserve University

ROBERT DELL WOLFF, *Professor of Music*, 1963

Ed.D. 1960, Columbia University



# General Information

## MARSHALL UNIVERSITY

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

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

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

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

## HISTORY

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

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

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

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

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



However, financial difficulties, doubtless aggravated by the sectional differences 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 degree of Bachelor of Science in Civil Engineering was authorized in 1968.

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 are offered leading to the degrees of Master of Arts, Master of Science, Master of Arts in Journalism and Master of Business Administration. Forty-one programs are available with majors in twenty departments and six additional departments provide minors.

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 Department of Chemistry is accredited by the American Chemical Society. The Civil Engineering curriculum is accredited by the Engineers Council for Professional Development.

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

### LOCATION

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

### DIVISIONS

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



# Academic Information

## FACULTY-STUDENT ADVISORY PROGRAM

Each student admitted to Marshall University is normally assigned to a faculty adviser, when possible, from the field in which the student has expressed an interest. The adviser renders academic guidance by assisting in the preparation of semester class schedules, by counseling the student in meeting degree requirements, and by checking with him on his academic progress.

## 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.

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

## STUDENT SCHEDULES AND COURSES

1. **SEMESTER LOAD.** A normal load for a full-time graduate student is twelve semester hours. Graduate assistants take a smaller schedule.

2. **CHANGE OF SCHEDULE.** Adding courses, dropping courses, changing class hours or days, or other changes of any kind after registration must have the written approval of the academic dean prior to making the change.

3. **FULL-TIME STUDENT DEFINED.** A student carrying at least 12 semester hours in a regular semester, four semester hours in a single summer term. A graduate student may qualify for veterans' benefits by carrying at least 12 hours or four hours respectively.

4. **COURSES NUMBERED 500-599** are similar to certain 400 series and may be conducted jointly but are open only to graduate students. Courses numbered 600-699 are open only to graduate students.

## GRADES AND QUALITY POINTS

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

A—Honor, given only for superior performance. Four quality points are earned for each semester hour with a grade of A.

B—Good, given for 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 performance that is of creditable quality. Two quality points are earned for each semester hour with a grade of C.



D—Given for performance of below-average quality. One quality point is earned for each semester hour with a grade of D.

F—Failure, given for unsatisfactory work. No quality points.

FIW—Failure because of irregular withdrawal. No quality points. A student receiving one or more FIW's is automatically on probation. (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 calendar days after the date of 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 of the first class meeting in the semester, or later than the first 10 calendar days after the date of the first class meeting in a summer term. The grades WP (withdrawn passing) and WF (withdrawn failing) show the status of the student's work up to the official withdrawal date (not the last day of class attendance) unless otherwise directed by the academic dean and so noted on the drop slip. The official withdrawal date is the date on the withdrawal slip issued by the Registrar's Office. (See regulations on withdrawal.) No quality points.

I—Incomplete, given to students who miss some of the last exercises of class work because of illness or some other valid reason beyond the control of the student. 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, or if the make-up work is unsatisfactory, the grade becomes an F. No quality points for an I grade.

## **QUALITY POINTS REQUIRED FOR TEACHER CERTIFICATION AND GRADUATION**

Quality points are based on the following quality point values for each semester of credit: "A"—4; "B"—3; "C"—2; "D"—1; and "F," "WF," "FIW"—0.

The quality point average is computed on all work for which the student has registered.

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

It is the student's responsibility to keep informed on his quality point standing and his degree and/or certificate requirements. This information can be obtained from the Graduate School dean.



## REGULATIONS ON WITHDRAWAL FROM COURSES OR FROM THE UNIVERSITY

### *Official Withdrawal from Courses or from the University:*

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

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

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

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

1. Students withdrawing during the first 30 calendar days after the first class meeting of the semester or within one week after the first class meeting of a summer term will receive a grade of W followed by the date of official withdrawal; thus W 2-14-67.
2. Students withdrawing after the first 30 calendar days of a semester and through the last day of the week preceding the final week of classes will receive a grade of W accompanied by a P for passing or F for failing to show the status of the student's work at the time of official withdrawal; thus WP 4-10-70 or WF 4-10-70.  
In a summer term the same period will begin at the end of the first week of classes and end on the last day of classes of the 4th week of a five-week term, or the 8th week of a 9-week term.
3. Official withdrawals during the last week of classes and the examination period of a regular semester or the last week of a summer term are not permitted except in cases of extreme emergency beyond the control of the student. Withdrawals in this period will be permitted only through personal conference with the academic dean.
4. Men and women called to the armed services of the United States shall be granted full refund of fees, but no credit, if the call comes before the end of the first three-fourths of the term, and full credit by courses, but no refund of fees, shall be granted to men and women called to the armed forces of the United States if the call comes thereafter; provided, however, that credit as described above will be granted only in those courses in which the student is maintaining a



passing mark at the time of his or her departure to military service. In recording the final grades for three-fourths of a term or more, both passing and failing grades are to be shown on the student's permanent record card.

*Irregular Withdrawal from Courses or from the University:*

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

### **ABSENCE FROM EXAMINATIONS**

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

### **ABSENCES FROM CLASSES**

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

### **AUDIT AND NONCREDIT COURSES**

An audit student is one who enrolls as an observer or listener only. Auditing is allowed only when there is space available in the class and the academic dean having jurisdiction over the course authorizes audit status. Enrollment for audit is limited to the regular registration period for the semester or term. 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. Audit students receive no 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. Audited courses cannot be repeated for credit.

### **TRANSCRIPTS**

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

A student who defaults in the payment of any University financial obligation forfeits his right to claim a transcript.

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

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

Fees are due and payable when invoices are rendered to the student from the Office of Business and Finance. Payment must be mailed or paid in person to the Cashier, Room 103, Old Main Building. Every student who registers incurs a financial obligation to the University. Official withdrawal or administrative cancellation of a registration for nonpayment of fees does not eliminate the obligation. Failure to pay enrollment fee does not automatically relieve the student of his responsibility to properly and officially withdraw from the University through his Academic Dean or Branch College Director. Students dropping courses from their original schedule or withdrawing completely from the University will not be allowed to deduct the amount from the original invoice. They must pay the invoice for the original number of hours. Refunds will be granted under the regular University policy for refunding fees. When withdrawals occur without prior proper payment of fees, students shall be assessed the pro-rata percentage to the refundable amount. The student must pay for the time incurred in class up until the date of this withdrawal. See Page 33—Refunding of Fees.

Students who are recipients of financial aid through the University Financial Aid Officer or private loans and scholarships will receive invoices for their enrollment fees. The student must accept the responsibility of delivering the invoice to his source of financial aid and insuring that payment or proper arrangements for payment are made with the Office of Business and Finance.

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

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

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

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

**ENROLLMENT FEES****REGULAR SEMESTER FULL-TIME STUDENTS, MAIN CAMPUS  
(12 OR MORE HOURS)**

	Resident of West Virginia	Non- resident <sup>1</sup>
Tuition Fee .....	\$ 25.00	\$175.00
Registration Fee .....	50.00	200.00
Student Activity-Services Fee .....	54.00 <sup>2</sup>	54.00 <sup>2</sup>
Total Enrollment Fee .....	\$129.00	\$429.00

**REGULAR SEMESTER, PART-TIME STUDENTS  
(LESS THAN 12 HOURS)****West Virginia Resident**

HOURS	TUITION	REGIS- TRATION	STUDENT ACTIVITY- SERVICES <sup>3</sup>	TOTAL
1	\$ 5.00	\$ 4.00	\$ 6.00	\$15.00
2	8.00	8.00	7.00	23.00
3	10.00	12.00	8.00	30.00
4	13.00	16.00	9.00	38.00
5	16.00	20.00	10.00	46.00
6	19.00	24.00	11.00	54.00
7	22.00	28.00	12.00	62.00
8	25.00	32.00	13.00	70.00
9	25.00	36.00	14.00	75.00
10	25.00	40.00	15.00	80.00
11	25.00	44.00	16.00	85.00

**Nonresident**

HOURS	TUITION	REGIS- TRATION	STUDENT ACTIVITY- SERVICES <sup>3</sup>	OUT OF STATE	TOTAL
1	\$ 5.00	\$ 17.00	\$ 6.00	\$ 10.00	\$ 38.00
2	8.00	34.00	7.00	22.00	71.00
3	10.00	51.00	8.00	35.00	104.00
4	13.00	68.00	9.00	47.00	137.00
5	16.00	85.00	10.00	59.00	170.00
6	19.00	102.00	11.00	71.00	203.00
7	22.00	119.00	12.00	83.00	236.00
8	25.00	136.00	13.00	95.00	269.00
9	25.00	153.00	14.00	110.00	302.00
10	25.00	170.00	15.00	125.00	335.00
11	25.00	187.00	16.00	140.00	368.00

<sup>1</sup>NONRESIDENT 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.

<sup>2</sup>THE STUDENT ACTIVITY-SERVICES FEES are allocated as follows: Assemblies and Forums \$1.50; Athletics \$7.50; Artists Series \$3.75; Chief Justice \$2.25; University Theatre \$5.00; Parthenon \$3.00; Student Government \$2.00; Student Union \$18.00; University Band \$2.50; Radio Station WMUL \$.25; Debate \$.15; Identification Card \$.25; Health Service \$6.00; and Laboratory and Course Fees \$8.60.

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 (\$5.00), and I.D. Card (\$1.00).

3I.D. card \$.25; Student Union \$5.00; balance Laboratory and Course Fees; a student activity card is available to part-time students for \$40.00.



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

#### West Virginia Resident

HOURS	TUITION	REGIS- TRATION	STUDENT ACTIVITY- SERVICES <sup>1</sup>	TOTAL
4	\$15.00	\$16.00	\$17.00	\$48.00
5	15.00	20.00	17.00	52.00
6	15.00	24.00	17.00	56.00
7	15.00	28.00	17.00	60.00
8	15.00	32.00	17.00	64.00

#### Nonresident

HOURS	TUITION	REGIS- TRATION	STUDENT ACTIVITY- SERVICES <sup>1</sup>	OUT OF STATE	TOTAL
4	\$15.00	\$ 68.00	\$17.00	\$43.00	\$143.00
5	15.00	85.00	17.00	43.00	160.00
6	15.00	102.00	17.00	43.00	177.00
7	15.00	119.00	17.00	43.00	194.00
8	15.00	136.00	17.00	43.00	211.00

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

#### West Virginia Resident

HOURS	TUITION	REGIS- TRATION	STUDENT ACTIVITY- SERVICES <sup>2</sup>	TOTAL
1	\$ 5.00	\$ 4.00	\$ 6.00	\$15.00
2	8.00	8.00	7.00	23.00
3	10.00	12.00	8.00	30.00

#### Nonresident

HOURS	TUITION	REGIS- TRATION	STUDENT ACTIVITY- SERVICES <sup>2</sup>	TOTAL
1	\$ 5.00	\$17.00	\$6.00	\$ 38.00
2	8.00	34.00	7.00	71.00
3	10.00	51.00	8.00	104.00

### ENROLLMENT FEES—EXTENSION DIVISION

West Virginia Resident—Tuition fee \$7.50 per semester hour; registration fee \$4.00 per semester hour; and a course fee of \$2.50, all payable when the invoice is rendered from Office of Business and Finance.

### ENROLLMENT FEES—BRANCH COLLEGES

\$15.00 per semester hour for hours one through seven; eight hours or more \$120.00, payable when invoice is rendered from Office of Business and Finance.

<sup>1</sup>Summer Assemblies and Forums \$.50; Student Union \$.50; Parthenon \$.50; Health Services \$2.00; I.D. Card \$.25; and Laboratory and Course Fees \$.75.

<sup>2</sup>I.D. Card \$.25; Student Union \$.50; Laboratory and Course Fees.

**DORMITORY FEE**

All students living in University dormitories are required to pay the dormitory fee. This fee includes the cost for housing and a food service fee for a full semester. The cost (including W. Va. State Consumers' Sales Tax of \$12.96) is \$444.96 per regular semester. The cost is based on prevailing prices and subject to change in the event of price increases in food, materials and labor necessary for the operation of dining halls and dormitories. The dormitory fee per five week summer term is \$123.60, including \$3.60 W. Va. Consumers' Sales Tax. Meals are available to students rooming off campus at the same rate as resident students. The food service plan is not valid during vacation period. If it is necessary for the student to remain on campus during such periods, he can obtain meals at regular dining hall prices if the dining halls remain open. Food service plans will become effective on the first day of any given semester or summer term. Meals prior to the first day of classes must be paid in cash. Students must present their I.D. Cards (properly validated) with receipts of dormitory fee payments to the Director of Food Service and their respective dormitory director. Students must take their meals in the dining hall assigned by the Director of Food Service.

Note: No deduction or refund is made in food service 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. Reservations for housing may be made through the Director of Housing.

**ESTIMATE OF EXPENSES AND DATES PAYMENTS DUE**

Estimated semester expenses of a full-time student living on campus at Marshall University are in the following table:

	W. Va. Resident	Nonresident
*Enrollment Fee (Actual) .....	\$129.00	\$429.00
**Dormitory Fee (Actual) .....	444.96	444.96
***Books, Supplies (Estimated) .....	65.00	65.00

**\*Enrollment Fee:**

Payment due when invoice is rendered by the Office of Business and Finance. Invoices are mailed approximately one week after the regular registration date of a given semester.

**\*\*Dormitory Fee:**

Payment may be made in two equal installments of \$222.48 in accordance with the following schedule:

**First Semester Dormitory Fee:**

- First-time enrollees in Marshall University—after confirmation of reservation by Director of Housing payment of the first installment (\$222.48) must be made within 10 days after notification by invoice from the Office of Business and Finance. The second installment (\$222.48) is due November 1st.
- Students currently living in University dormitories who wish to reserve a room for the ensuing first semester of the next school year must pay the first installment by May 1 of the current school year. The second installment (\$222.48) is due November 1st.

**Second Semester Dormitory Fee:**

- First installment (\$222.48) is due January 10th.
- Second installment (\$222.48) is due April 1st.

**Dormitory Fee—per summer term of 5 weeks:**

The cost of the Dormitory Fee per 5-week summer session is \$123.60 payable within 10 days after receipt of an invoice from the Office of Business and Finance or upon entrance to the Dormitory. Reservations may be made through the Director of Housing.

\*\*\*Books—Supplies: Books and supplies may be purchased from the University Bookstore. Payment must be made at the time of purchase.

**NOTE:** The Office of Business and Finance will mail invoices to the student for all fees except Books and Supplies.



**SPECIAL FEES****Late Registration Fee (Nonrefundable)**

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

**Graduation Fees**

Associate Degree .....	\$ 5.00
Baccalaureate Degree .....	5.00
Graduate Degree .....	10.00

**Cap and Gown Fee**

Associate Degree .....	\$ 3.00
Baccalaureate Degree .....	3.00
Graduate Degree .....	7.20

Graduation fees are due and payable on notification from the dean of the student's respective college or school.

**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.

Relative to the classification of students for the purpose of assessing tuition fees, the 12 months' residence requirement is waived for members of the immediate family of a staff employee, thereby classifying such members as resident students.

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

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

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

## REFUND OF FEES

### I. Withdrawal from the University

#### *Enrollment, Tuition and Registration Fees*

Students who withdraw regularly from the University may have a refund of tuition and registration fees in accordance with the following schedule:

	Main Campus and Extension Division	Branch Colleges
During the first and second weeks .....	90%	50%
During the third and fourth weeks .....	70%	25%
During the fifth and sixth weeks .....	50%	10%
Beginning with the seventh week .....	none	none

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

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

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

**Dormitory Fee:** Cancellation of room reservation prior to July 1 (first semester or January 10 (second semester) will result in a refund of the payment of the dormitory fee, less \$25.00 for cancellations after July 1 (first semester or January 10 (second semester)), \$50.00 will be deducted from initial dormitory fee payment and retained by the University. No refunds will be made after September 1 (first semester) or January 15 (second semester). Students denied admission—declared ineligible to return or unable to return for reasons beyond their control will be refunded their entire dormitory fee payment.

### II. Withdrawals due to administrative action

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

### III. Food Service Plan

Refunds will be pro-rated on the basis of a full week of 20 meals and not on the total number of meals remaining on the meal plan for the semester.



#### **IV. Refunds to students called to armed services**

Men and women called to the armed services of the United States shall be granted full refund of fees, but no credit, if the call comes before the end of the first three-fourths of the term and full credit by courses, but no refund of fees, shall be granted to men and women called to the armed forces of the United States if the call comes thereafter.

#### **V. Special fee refunds**

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

#### **VI. Late fees are nonrefundable**

##### **Regulations Governing Classification of Students For the Purpose of Assessing Tuition Fees**

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

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

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

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

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

The residence of one who is under twenty-one years of age is that of the father. Upon the death of the father, the residence of the minor is that of the mother. Upon divorce of the parents, the residence of the minor is determined



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

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

A student under twenty-one years of age shall not be classified as a resident student until his parents have resided in this state for at least twelve consecutive months immediately preceding the date of current registration. A West Virginia student whose parents or guardian move out of the state of West Virginia after his original enrollment, will automatically become liable for the nonresident fee at the next registration period after twelve months following removal of parents or guardian.

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

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

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

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

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



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

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

# 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 or 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.

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

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:

### Undergraduates

Undergraduates not previously enrolled in Marshall University must furnish the Registrar's Office immediately (dates announced by Office of Adult Education) with official transcripts of credit from other colleges or with transcripts of high school credit. Those who wish to earn credit to be transferred



to other colleges or to renew certificates may satisfy this requirement by having letters of good standing written from their undergraduate colleges to the registrar of Marshall University.

## Graduate Students

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.

The student Speakers Bureau is an honorary service organization, under the direction of the Speech Department, which offers to the Marshall-Huntington community programs for social, civic, church, and educational organizations. Speakers Bureau programs, provided free of charge, include panel discussions, entertaining oral readings, and informative speeches. A Speakers Bureau brochure, available at the Speech Department, lists the currently available programs and speakers.

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.

**Conference and Workshops**—Insofar 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 four residence halls for women: Laidley Hall, Prichard Hall, West Hall, and Twin Towers.

Men are housed in Hodges Hall, South Hall, and Twin Towers .

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

### Room Applications, Cancellations and Refunds

Applications for housing will be sent to prospective students outside Cabell County together with the application for admission. The Housing application must be returned, *without a deposit*, to the Housing Director who will assign the student to a specific residence hall.

The new applicant will be invoiced for one-half of the *dormitory fee* (50% of the total room and board cost) which must be paid within ten (10) days after notification to the Office of Business and Finance. The remaining 50% of the *dormitory fee* will be invoiced and must be paid by November 1 to the Office of Business and Finance. New applicants for the second semester must pay one-half of the *dormitory fee* within ten days after receipt of invoice and the remainder must be remitted by April 1, both to the Office of Business and Finance.

Students currently housed in residence halls will be given first preference of room assignment. During the first semester, campus residents must indicate room preference for the following term by no later than November 15—March 15 is the deadline for reapplying for the fall term. Rooms for the fall term can be reserved only by making a deposit of 50% of the *dormitory fee* by May 1 for first semester lodging and January 10 for the second semester. Final payment will be due November 1 (first semester) and April 1 (second semester).

Students denied admission—declared ineligible to return or unable to return for reasons beyond their control—will be refunded their entire payment.

Cancellation of room reservation prior to July 1 (first semester) or January 10 (second semester) will result in a refund of the payment of the dormitory fee less \$25.00. For cancellation after July 1 (first semester) or January 10 (second semester), \$50.00 will be deducted from the initial payment and retained by the University. No refunds will be made after September 1 (first semester) or January 15 (second semester).

**Pay Schedule for Dormitory Fee (room and board)****First Semester**

<b>Date Due</b>	<b>Amount Due</b>
One-half of dormitory fee is due 10 days after notification by invoice from the Office of Business and Finance .....	\$222.48
The remaining one-half of the first semester's dormitory fee is due November 1 .....	222.48
<b>Total</b> .....	<b>\$444.96</b>

**Second Semester**

The first half of the second semester's dormitory fee is due January 10 .....	\$222.48
April 1 is the final date of payment for the remaining one-half of the second semester's dormitory fee .....	222.48
<b>Total</b> .....	<b>\$444.96</b>

Students currently living in a dormitory who wish to reserve a room for the next year must pay one-half of the dormitory fee by May 1.

**Refund**

No refund of any portion of the room rent is made except for reasons entirely beyond the control of the student.

**Rooms**

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

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

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

**Breakage**

Students are not required to pay a furniture 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**

Although Marshall University may continue to provide students information about available off-campus housing facilities, it is no longer possible to



designate any housing not specifically owned by the University as "University approved." Therefore, any student who decides to reside in off-campus housing accepts full personal responsibility for the health, safety, and living standards which he agrees to accept, and for whatever *contractual arrangements* he makes with the landlord. It is hoped that for his own protection in this respect, each landlord will make it clear to present and potential student tenants and their parents that all agreements reached are between the landlord and the tenant; and that they do not constitute any contractual involvement of Marshall University.

Rooms in private homes are listed in the office of the Housing Director. All rental transactions are negotiated directly between the student and the householder. The University recommends a personal inspection and approval of the residence by the student and his parents before a rental transaction is consummated. 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 rates of \$45.00 per month for a one-room apartment and \$65.00 per month for a two-room apartment. Applications may be procured from the Housing Director. A security deposit of \$25.00 is charged for these units.

Three newly constructed apartment buildings will be available for married students beginning the first semester of the 1969-70 school year. Building "A" will offer 24 units each containing one bedroom, kitchen, living room and bath. Building "B" will house 10 units, each with two bedrooms, a kitchen, living room and bath. Building "C" will accommodate four one-bedroom units and four two-bedroom units.

Rent for the new apartments will be \$90.00 per month for a one-bedroom unit and \$100.00 per month for a two-bedroom unit.

### **Board for Students Living in Residence Halls:**

All students living in University residence halls are required to purchase their meals through the University dining halls. Cost of meals is no longer figured separately since room and board are both considered part of the dormitory fee. 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.

## **GENERAL COUNSELING**

The office of Student Affairs is organized for counseling students with personal problems. Some of the problems most frequently brought to these offices concern personal adjustments to campus life, housing, finding part-time employment, budgeting expenses, obtaining loans, participation in extra-curricular activities, fraternity and sorority pledging procedures, and interpretation of rules and regulations of the University for guidance of students. Stu-



dents are welcome to consult with a member of the staff about any problem.

The deans and their assistants welcome inquiries of all kinds from parents and guardians who visit the campus or write for information. Correspondence may be addressed to the Dean of Student Personnel Programs, Marshall University.

### **Counseling and Testing Center**

The Counseling and Testing Center is located at 1618 Fifth Avenue and is under the Director of Counseling. Here the student may find assistance in his educational and vocational planning. Testing is offered to measure the abilities and interests of the students to enable them to make better choices with respect to their future. The counselor also assists the students in reconciling the personal and social adjustment to their lives on campus. Typical kind of problems involve roommates, classmates, instructors, marital and premarital problems.

The counselor may help in the area of study habits and self-discipline. Referrals are made to appropriate sources when deemed necessary, e.g. reading clinics, speech therapy, and The Psychology Clinic. All conferences are confidential.

## **STUDENT HEALTH SERVICES**

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

A physician, laboratory technician, and nurses 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 during office hours.

The University and the Chesapeake and Ohio Railway Employees' Hospital Association have furnished a plan to provide certain medical services for students.

Under the new program Marshall students requiring specialized medical services will be referred to the Chesapeake and Ohio Hospital from the Student Health Center.

Students will be receiving (a) twenty-four-hour emergency care, (b) hospitalization (bed care), and (c) specialized treatment.

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**

The Student Government offers a specially designed student accident and sickness group insurance plan providing coverage for hospital and medical



expenses. The plan protects students the year-round; at home, at the University and during all vacations (including summer). 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 will be mailed to the student's home address prior to the fall term. They may also be obtained at the Student Government Office or the Office of Student Affairs.

### **THE PSYCHOLOGY CLINIC**

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

### **THE READING CENTER**

The Reading Center is primarily an education center for teachers and prospective teachers. Reading programs for Marshall University students are included in the services.

Limited numbers of students may enroll for periodic short-term, intensive reading improvement courses. Courses are available for students who are presently deficient readers and for students who are already competent readers who would like to develop greater reading proficiency.

Additional information may be obtained by contacting The Reading Center, 19B, Old Main, 696-2368.

### **THE SPEECH AND HEARING CLINIC**

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

Consultation, examination, and recommendations are available to the public insofar as time and facilities permit. The clinic is located in Smith Hall.

The Speech Improvement Program. The Department of Speech provides special training for students requiring speech improvement. People who have substandard speech patterns not considered to be clinically significant but which require changes for more effective communication are scheduled in the speech improvement program. Students admitted to the program come from a screening procedure required as a part of courses in Education and Speech, from self-referral or by request of any course instructor.

### **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 Hunt-

ington 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 163,000 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 CAREER PLANNING AND PLACEMENT**

Marshall University provides a placement service for all students and alumni. The main function of the office is to render vocational counseling. A professional staff is available to carry out this function.

The facilities of the office also give the undergraduate student the opportunity to obtain part-time employment and to the graduating senior and alumni the opportunity to meet with employing officials from all areas of business, industry, education, and federal and state governmental agencies.

The office is located at Room 114, Old Main.

### **STUDENT CONDUCT**

The faculty and administration of Marshall University recognize fully the rights and responsibilities of its students. These include the privilege and obligation of maintaining high standards of social and personal conduct. While encouraging the students to develop independence, the University embraces the concept that liberty and license are not synonymous, and it therefore accepts the obligation to maintain those rules which will provide for the welfare of the individual and the campus community at large.

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

#### **Intoxicating Beverages**

1. The consumption or possession of intoxicating beverages or beer by students is not permitted on University property or at University athletic events.



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

### LIABILITY

Marshall University, as a state agency, cannot assume responsibility for loss of or damage to the personal property of students. Furthermore, the University cannot assume responsibility for personal injury to students.

Students and their parents are strongly urged to make certain that such matters are covered by their personal insurance.

### ARTISTS SERIES, FORUMS, CONVOCATIONS

The Marshall University Student Artists Series, Community Forum and 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-Service Fee and no further admission charge is collected for any of the above programs.

### SHAWKEY STUDENT UNION

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

### UNIVERSITY THEATRE

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

University Theatre experience is intended not merely to give training in

dramatic skills and techniques, but to develop such qualities as poise, confidence, initiative, self-reliance, and cooperativeness. A further purpose is to encourage appreciation of dramatic literature, and to help keep alive the plays which have made dramatic history.

### **RADIO STATION WMUL**

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

### **GEOLOGY MUSEUM**

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

### **BAND, ORCHESTRA AND CHORAL GROUPS**

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

### **STUDENT PUBLICATIONS**

The Parthenon is published four times a week by students under the direction of the Department of Journalism.

The Student Handbook is published annually in September by the Student Government and the Office of Student Affairs and contains general information for all students with particular emphasis on information for freshmen.

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

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



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

### RELIGIOUS LIFE

The purpose of the campus ministry is to develop an inclusive, consciously religious fellowship where all persons are welcomed and where each may come to a deeper commitment to God. To accomplish this purpose, the campus ministry constantly strives to include the following emphasis:

A persistent, prayerful search to understand the basic reaffirmations and to present them in a relevant manner with the academic environment;

A conscious effort to discern God's purpose for each individual especially as it relates to his vocation;

A fellowship of faculty and students joined in common worship and the search for truth;

A concerted appraisal of the needs of the University community in an effort to witness more effectively within it;

A conscious concern for the life and mission of the Church and encouragement of responsible participation in it;

A compulsion to relate all areas of life to God in a prophetic way.

This purpose is accomplished by the churches working together in a united effort, promoting study groups, action projects and worship.

### INTERCOLLEGIATE ATHLETICS

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

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

# The Graduate School

## GENERAL INFORMATION

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

### Degrees

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

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

The degree program, Master of Arts in Journalism, provides a suitable academic background for careers in professional journalism and other areas of mass communications.

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

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

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

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

### Objectives of Graduate Work

1. To meet a regional need for an opportunity for graduate study.
2. To aid in the development of a corps of competent teachers, administrators, and counselors for the public schools of West Virginia.



3. To prepare students to use and evaluate the better known techniques of research and to appreciate their contribution to knowledge.
4. To prepare students for further graduate study.

### **Admission to Graduate School**

Admission is based on official transcripts of college credits, the information provided on the application for admission form, and on whatever examinations and conditions the Graduate School or major department may require in any given case.

A minimum quality point average of 2.7 over-all with a minimum of 3.0 in the area of the proposed major is required for Unconditional Admission.

Graduates from non-accredited institutions and applicants who are deficient in undergraduate preparation in the major field may be granted Provisional Admission. Grade requirements for Provisional Admission are the same as those for Unconditional Admission.

Special Admission may be granted to applicants whose undergraduate quality point averages are below those required for Unconditional Admission when unavoidable circumstances adversely affected the applicant's undergraduate average and if the record indicates progressive improvement. To be eligible for advanced degrees, Special Admission students must complete 12 hours of graduate work with at least a "B" average and be reclassified by the dean of the Graduate School with the recommendation of the chairman of the student's major department.

Applicants for admission may be required to take any special or standard ability or achievement tests in determining their eligibility for admission. The major department may require an applicant to make a satisfactory showing on a special written or oral examination before accepting him as a major. Admission to one department or major does not imply admission to any other department or major. Students who wish to change majors or programs must apply for and be admitted to the new major or program.

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 from the student's undergraduate college to the Graduate School Office when the application is filed. Students with undergraduate degrees from Marshall University must furnish a transcript for the Graduate School Office when they submit the application for admission.

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

Students who have not been admitted to the Graduate School and who wish to begin graduate work in extension courses must furnish transcripts and file application for admission as a part of the registration procedure. If



these are not furnished immediately, it is the prerogative of the dean of the Graduate School to withdraw the student from the course by administrative action, or, to direct that the student shall not receive credit that may be counted toward an advanced degree in any institution.

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

### **Admission to Candidacy**

Admission to graduate courses does not imply admission to candidacy for the master's degree. The student is admitted to candidacy only after he has proved his ability and fitness to do graduate work. After completion of 15 semester hours at Marshall University, a student is expected to apply for admission to candidacy for the degree. The application, bearing a record of courses completed, must be made on a form secured from the Graduate School. Examinations may be required for admission to candidacy. To be considered for admission to candidacy, a student must have received Unconditional Admission to the Graduate School and must have earned a quality point average of 3.0 (B) on all graduate work attempted.

### **The Adviser**

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

### **General Requirements for Master's Degree**

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

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



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

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

Graduate courses are numbered 500 to 699. Selected courses with 400 series numbers for undergraduate credit have 500 series numbers for graduate credit. A few courses that have 300 series numbers for undergraduate credit have 600 series numbers for graduate credit. In courses open to both graduate and undergraduate students, graduate students are required to do more work than undergraduates. This includes more extensive reading, research papers, and other individual work. At least one-half of the work counted for the master's degree must be taken in courses numbered 600 to 699.

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

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

## **Thesis**

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

Students in departments other than chemistry register for Thesis 681. Chemistry majors register for Research 682. The student continues to register for Thesis 681 or Research 682 in chemistry, and pay tuition for the minimum number of hours per semester as required by his department until the thesis is accepted and a final grade submitted by the thesis adviser to the Registrar's Office. The thesis adviser reports a mark of PR (progress) for satisfactory work at the end of each term or semester for which the student is registered with the total amount of credit to be allowed. The student must be registered for thesis during the term in which the thesis is completed. The adviser may report a final grade of F at the end of any semester or term when in his opinion, because of irregular reports or unsatisfactory progress, the student



should not be permitted to continue to register for research.

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

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

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

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

### **Residence**

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

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

### **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 by corresponding regulations of other states in which they may be employed.



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

### **Transfer of Credit and Extension Credit**

The dean may, upon the student's petition, grant to a student the privilege of transferring to Marshall University, for application on the master's degree, six graduate hours earned in another institution when, in the judgment of the dean and the student's adviser, such credit is to the advantage of the student's program. Occasionally it may be recommended that a student earn more than six hours in another institution in work not offered by Marshall University.

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

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

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

At least one-half of all course work counted toward a master's degree must be done on the Marshall University Campus.

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

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

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

### **Comprehensive Examinations**

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

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

### **The Graduate Record Examination**

Required prior to admission to candidacy for students in Education and Psychology. Required before admission to Graduate School in Sociology.

The Graduate Record Examination—Aptitude Test will be administered at Marshall University and other Graduate Record testing centers on dates available from the office of the Graduate School.

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

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

### **Graduate Assistantships**

Most departments offering the master's degree have some funds available for Graduate Assistantships. The amount of the award may vary but does include in addition the waiver of tuition and most fees. Graduate Assistants perform duties required and normally carry a somewhat lighter load than the normal full time student.

Information about available Graduate Assistantships may be secured by contacting the department chairman.

### **Responsibility**

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



# Courses of Instruction by Departments

## Abbreviations

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

## ART

Professor Carpenter

501-502. **History Of Art.** 3; 3 hrs. I, II.

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

503. **Oriental Art.** 3 hrs.

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

504. **20th Century Art.** 3 hrs.

The principal developments in the architecture, painting, sculpture, of the century.

PR: Three hours in history of Western Art.

505. **Art In America.** 3 hrs.

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

PR: Three hours in history of Western Art.

601. **Methods in Elementary School Art Education.** 3 hrs. S.

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

602. **Current Problems In Art.** 3 hrs.

604-605. **Mural Techniques.** 3; 3 hrs.

650-651-652-653-654-655-656. **Special Topics Or Projects In Art.**

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

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

670. **Seminar.** 3 hrs.

Readings and reports in selected areas of art education.

679. **Problem Report.** 1-3 hrs.

681. **Thesis.** 1-6 hrs.

**BIBLE AND RELIGION**

Professor Jennings

518. **Development of Religious Ideas.** 3 hrs.  
A study of the primary sources of religious thought in western culture.
519. **Religious Thought In The Western World.** 3 hrs.  
An analysis of the major schools of religious thought as they have developed in the West.
520. **Recent and Contemporary Religious Thought.** 3 hrs.  
A survey of the major currents of religious thinking in the twentieth century.
530. **Origin and Transmission of the Bible.** 3 hrs.  
A study of the history of the canonization, textual transmission, and translations of the Bible.
550. **Sociology of Religion.** 3 hrs.  
An investigation into the nature of religion as a social phenomenon.

**BIOLOGICAL SCIENCES**

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

Associate Professor Ash

Assistant Professors Modlin, Poff, Shoemaker

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

Master's degree candidates must have an adequate knowledge in both the plant and animal life sciences. Students who enter the Graduate School with a concentration in one of these fields and with little work in the other are expected to diversify their graduate studies in the biological sciences. A minimum of 18 hours in graduate courses in the biological sciences must be completed. At least 15 hours must be selected from the following courses: Biological Science 502, 504, 601, 602, 607, 608, 615, 616, and 630.

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

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



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

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.

504. **Cellular Physiology.** 4 hrs. I.

The physio-chemical nature of intracellular processes in plant and animal cells with emphasis on the functional significance of microscopic and sub-microscopic structure and organization.

PR: 8 hours of biological sciences, 8 hours of chemistry and 8 hours of physics.

507. **Genetics.** 4 hrs. I, S.

The fundamental principles and mechanisms of inheritance including their human applications. 3 lec-2 lab.

508. **Ornithology.** 3 hrs. II, S.

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

513. **Principles of Organic Evolution.** 2 hrs. S.

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

515. **Plant Morphology.** 4 hrs. II.

Characteristics of the great plant groups. Discussion of the important steps in the development of plants. 2 lec-4 lab.

516. **Plant Taxonomy.** 4 hrs. II, S.

Identification and classification of seed plants and ferns of eastern United States. Readings in history and principles of taxonomy, rules of nomenclature and related topics, 2 lec-4 lab.

518. **Mycology and Plant Pathology.** 4 hrs. II.

Nature, cause and control of plant diseases. 2 lec-4 lab.

524. **Animal Parasitology.** 4 hrs. I.

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

PR: Zoology 212.

526. **Medical Entomology.** 4 hrs. II.

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

PR: Zoology 212 or equivalent.

530. **Ecology.** 4 hrs. I, S.

The interrelationships of plants and animals. Local and world distribution of biotic communities. 2 lec-4 lab.

PR: Botany 316 or consent of instructor.

582. **Conservation of Forests, Soil and Wildlife.** 3 hrs. I, S.

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

583. **Development of Scientific Thought.** 3 hrs. II.

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

601. **Vertebrate Embryology.** 4 hrs. I.

Vertebrate development based on frog, chick and pig embryos. 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.

605. **Economic Botany.** 3 hrs. I.

Plants used by man for food, ornamental purposes, building materials, textiles and other industrial purposes; economic importance of conservation. No laboratory.

606. **Field Biology.** 4 hrs. II, S.

Identification, classification, habitats, and communities of animal and plant life. 2 lec-4 lab.

PR: Eight hours of biological science.

608. **Plant Physiology: Growth and Development.** 4 hrs. II.

Comprehensive advanced study of correlative growth processes in plants with emphasis on germination, dormancy, growth substances and physiological phenomena associated with phases of development.

PR: Cellular physiology or equivalent.

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.

613-614. **General Entomology.** 2; 2 hrs.

Collection, identification, classification and mounting of insects. 1 lec-4 lab.



625. **Human Anatomy and Physiology.** 4 hrs. II.  
The structure and functions of the human body. 3 lec-2 lab.
626. **Protozoology.** 4 hrs. Offered on demand.  
A study of free-living and parasitic protozoa important to agriculture, wild-life, and man. Morphology, physiology, reproduction, ecology, and life histories of parasitic protozoa will be emphasized.  
PR: Zoology 212.
642. **Investigations in Conservation.** 2 hrs.  
Sponsored by cooperating college at Jackson's Mill. Individual work on problems of conservation under the direction of staff members. Evening seminars, operation and sources of audio-visual equipment in conservation.
- 650-651-652. **Special Problems.** 1-3; 1-3; 1-3 hrs.  
By permission of adviser.
- 660-661-662. **Seminar.** 1; 1; 1hr.
679. **Problem Report.** 1-3 hrs.
681. **Thesis.** 1-6 hrs.  
By permission of adviser.

## BUSINESS

Professors Anderson, Browning

Associate Professors Evans, C. Miller

### Master of Business Administration Program

Marshall University offers an excellent opportunity to qualified candidates for the M.B.A. program. It recognizes the interdisciplinary basis of the executive function. In keeping with its purpose of providing professional preparation and foundation, the program gives emphasis to the development of a strong fundamental framework and the development of skill in managerial problem-solving and decision-making but a degree of specialization is provided. Individual study programs are prepared to accomplish the student's professional objectives.

### PROGRAM DESIGN

Business policies and procedures are subject to change over time. Methods that may be common in the coming decades may be unlike the techniques in current use. For this reason, greater emphasis is placed on sound general principles and decision-making techniques which provide a base for continuing learning.

To accomplish this purpose the program involves:

1. A series of preparatory administrative studies designed to assist the student with an undergraduate degree in a field other than business to continue with his professional development.

2. A broad study of functional areas of business and their interrelationships with emphasis on application of knowledge, concepts, and analytical methods for problem-solving.
3. Elective subject matter areas to provide for candidate's specific professional objectives. Within the framework of the basic program, each candidate has considerable flexibility in selecting an area of professional concentration. Areas currently offered are: Accounting, Economics, Finance, and Management.

The program may be completed in three or four semesters, attending on a full-time basis (twelve semester hours of graduate credit is considered to be a full-time semester class load) depending on the candidate's previous training, experience, and objectives.

Preparatory Administrative Studies Required as needed

for those lacking in undergraduate background .....	12 hrs.
Functional Studies .....	24 hrs.
Specialization .....	6 hrs.
Thesis (or electives in a Specialization) .....	6 hrs.
	36-48 hrs.

#### ADMISSION TO THE M.B.A. PROGRAM

The M.B.A. program at Marshall University provides for the development of professional leaders in business and industry. The program is a demanding one requiring outstanding aptitude, ability, and scholarship of its candidates. Normally, an accumulative quality point average of 2.7 (4.0—A) is considered to be the minimum level of undergraduate academic performance necessary for admission. Undergraduate preparation in business administration is not a prerequisite for admission.

Each applicant is required to submit his test scores on the Admission Test for Graduate Study in Business. The test is prepared by the Educational Testing Service (Princeton, New Jersey) and is given five times yearly at numerous locations throughout the United States and various foreign countries. A total score of at least 500 is expected. Arrangements for taking the A.T.G.S.B. must be made either preceding or concurrently with application to the M.B.A. program.

Special admission may be granted to some applicants under unusual circumstances. Application and all supporting documents must be filed with the Dean of the Graduate School, Marshall University, Huntington, West Virginia, at least 30 days prior to the opening of the semester or term of enrollment.

#### DEGREE REQUIREMENTS

1. Each candidate is required to complete a minimum of thirty-six semester hours of graduate study. Each candidate must exhibit competence in the functional studies, and his area of specialization by satisfactory completion of designated courses with a quality point average of 3.0 (4.0—A).
2. Candidates must pass a comprehensive, written examination covering the functional studies and either a written or oral examination in their area of specialization. The examinations will normally be



given on the same day and at such time as it appears that the student's program is nearing its successful completion.

3. The program must be completed within five years of admission to the Graduate School.

## COURSE REQUIREMENTS

### *Preparatory Administrative Studies:*

Students lacking in undergraduate background may be required to take selected courses from the following graduate offerings in addition to the basic 36-hour requirement:

Business 600 Analytic Methods and Techniques .....	3 hrs.
Business 610 Financial Accounting .....	3 hrs.
Business 670 Society, Business and Administration .....	3 hrs.
Economics 648 Basic Economic and Financial Concepts .....	3 hrs.

### *Functional Studies:*

All students are required to take all courses in this category. They consist of:

Business 601 Quantitative Controls in Business .....	3 hrs.
Business 612 Accounting Functions in Business .....	3 hrs.
Business 662 Finance Management .....	3 hrs.
Business 672 Theories of Administration .....	3 hrs.
Business 682 Marketing Management .....	3 hrs.
Business 691 Government and Business Relationships .....	3 hrs.
Economics 642 National Income Analysis .....	3 hrs.
Economics 643 Advanced Economics Theory I .....	3 hrs.

## SPECIALIZATION:

The student must select six hours in one of the four areas of specialization. Six additional hours may be selected from the other areas, thesis (Business 681), or other electives upon the recommendation of the adviser.

The available options are:

### *Accounting Specialist:*

Business 613 Profit and Control .....	3 hrs.
Business 614 Theory of Accounts .....	3 hrs.
Business 615 Auditing Theory and Practice .....	3 hrs.

### *Economics Specialist:*

Economics 640 The Evolution of Economic Thought .....	3 hrs.
Economics 644 Advanced Economic Theory II .....	3 hrs.
Economics 646 Monetary Theory .....	3 hrs.

### *Finance Specialist:*

Business 664 Investment Analysis .....	3 hrs.
Economics 620 International Economics .....	3 hrs.
Economics 646 Monetary Theory .....	3 hrs.

**Management Specialist:**

- Business 673 Problems in Personnel Management ..... 3 hrs.  
 Business 674 Administrative Policies and Planning ..... 3 hrs.  
 Business 675 Problems in Labor-Management Relations ..... 3 hrs.

**600. Analytic Methods and Techniques. 3 hrs.**

Designed to provide competency in some of the basic quantitative skills necessary for analytical work in business administration. Required of all candidates who have had little or no undergraduate background in mathematics.

**601. Quantitative Controls in Business. 3 hrs.**

Techniques of systems design, uses of electronic computers, management problems concerned with data processing, and significance for decision-making. Includes FORTRAN, matrix algebra, linear programming, decisions under uncertainty, and game theory.

**610. Financial Accounting. 3 hrs.**

Concerns itself with principles, concepts, and problems underlying the valuation, recording, analysis and interpretation of accounting data. Required of all candidates who have had little or no undergraduate background in accounting.

**612. Accounting Functions in Business. 3 hrs.**

Provides the student with an understanding of the meaning, uses, and limitations of the historical and projected quantitative data produced by the accounting process. Emphasis is given to the utilization of accounting information; (1) by marketing, production, and financial executives in planning and controlling business operations and (2) by investors, creditors, governmental agencies, and other external groups having an interest in the operating results and financial position of business firms.

**613. Profit Planning and Control. 3 hrs.**

Determination, analysis, and reporting of data for planning and controlling operations. Includes flexible budgets standard costs, and systems of determining historical costs.

**614. Theory of Accounting. 3 hrs.**

History and development of accounting principles; intensive study of theoretical problems related to determination of income and presentation of financial conditions.

**615. Auditing Theory and Practice. 3 hrs.**

Legal and social responsibilities of the auditor. Verification of financial statements by independent public accountants and internal auditors.

**662. Finance Management. 3 hrs.**

A financial approach to business management, beginning with a consideration of financial objectives and their measurement; the uses of funds; estimating; fund requirements; sources of funds, working capital management, budgeting, dividend policy, mergers and consolidations.



664. **Investment Analysis.** 3 hrs.

Application of advanced mathematical techniques to portfolio selection process and to analysis of securities. Study of theories of security analysis.

670. **Society, Business and Administration.** 3 hrs.

Organization of human and physical resources for the attainment of goals in various environments. Examines some of the key political, legal, institutional, and moral foundations of business. Required of all candidates who have not completed an undergraduate course in management.

672. **Theories of Administration.** 3 hrs.

The focus of study is the administration of the business firm from the point of view of top management involving: the formulation and administration of policy, the integration of internal operations with each other and the environment, the diagnosis of executive and organizational problems, the evaluation of business risks and strategy alternatives, the development of long range plans and programs, the means of organization and executive control, and the evaluation of administrative strategy for the business corporation.

673. **Problems in Personnel Management.** 3 hrs.

Principles and procedures of the personnel system in the firm; selected areas of recruitment and selection; training and development; performance appraisal and evaluation; general communications systems; role of government in manpower administration.

674. **Administrative Policies and Planning.** 3 hrs.

Managerial organization, identification of major problem areas and development of production concepts and decision processes for problem solving. Includes plant design and layout, effective utilization of resources through various planning and scheduling techniques.

675. **Problems in Labor-Management Relations.** 3 hrs.

Comprehensive coverage of the development of the field of industrial relations. The impact of organized labor and Federal social legislation of management decisions. Alternative directions for future developments are studied.

681. **Thesis.** 1-6 hrs.

682. **Marketing Management.** 3 hrs.

An integrated approach to marketing from a managerial point of view—making use of economic, quantitative, and behavioral concepts in analyzing and developing a framework for the decision-making and implementation of the firm's marketing program.

691. **Government and Business Relationships.** 3 hrs.

Emphasis is placed on preparing business executives for dealing with increasingly complex problems of the firm in its relationships with government at both state and federal levels. Applies economic analysis

to three great problems of public policy and suggests policy prescriptions in the three broad categories of antitrust, commission regulation, and economic stabilization.

### **Business Education**

**621. Principles of Vocational Business Education. 3 hrs.**

Application of the philosophy and principles of vocational education to the objectives, curriculum, guidance, and teacher preparation aspects of business education, emphasizing the techniques of coordination of federally aided programs in business and office education.

**624. Organization, Administration, and Supervision of Business Education. 3 hrs.**

Emphasis on problems involving the administration of the business education program in the secondary school and in post-high school institutions; provides fundamentals of school administration for the classroom teacher.

**625. Curriculum Construction in Business Education. 3 hrs.**

Basic principles of curriculum and course of study construction in business, especially oriented to the secondary school; particular attention given to study of existing city and state business education programs.

**626. Current Problems and Issues In Business Education. 3 hrs.**

Individual and group analysis of current problems and issues in teaching business subjects, particularly in the secondary school; identification and clarification of issues significant to the direction of sound business education.

**627. Tests and Measurements in Business Education. 3 hrs.**

A study of evaluation procedures in business education; survey of standardized and published test material and its utilization in the classroom; a review of basic statistical methods used in test interpretation.

**629. Teaching Typewriting and Office Machines. 3 hrs.**

Improvement of methods of teaching typewriting and office machines through evaluation of current research, methods, classroom materials, and current trends; discussion of major problems of teachers in these subjects.

**630. Teaching Basic Business and Bookkeeping. 3 hrs.**

A study of the problems and techniques of teaching basic business subjects and bookkeeping; evaluation of major problems facing teachers, including motivation, remedial practices, use of classroom materials.

**631. Teaching Shorthand and Secretarial Office Practice. 3 hrs.**

Teaching techniques and a study of research in methodology in shorthand and secretarial practice; a review and discussion of the major problems of shorthand teachers; study of testing and grading, use of visual aids, use of materials.



## CHEMISTRY

Professor Hoback

Associate Professors Chakrabarty, Douglass, Hanrahan, Lepley, Lillien

Assistant Professors Larson, Littler, Kong, Roberts, Sharma

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

Marshall University through its Department of Chemistry provides a balanced curriculum of course work and research leading to the Master of Science degree with a major in chemistry. The courses available provide a sufficient flexibility to permit the structuring of degree programs to meet the needs and educational goals of students on an individual basis.

This degree program is intended primarily for students whose career goals are industrial chemistry, research and teaching above the secondary school level.

Entering students seeking a Master of Science degree with a major in Chemistry must have earned at least the Bachelor's degree in Chemistry as described in the Marshall University bulletin, or its equivalent. Deficiencies must be removed by taking the appropriate undergraduate courses for no graduate credit.

Entrance proficiency examinations are required of all full-time students seeking graduate credits. These examinations cover the fields of Organic, Inorganic and Physical Chemistry. The results of these examinations are used to guide the student in his course of study. Students applying for admission to the program should submit the Graduate Record Examination scores.

### Requirements for a Master of Science Degree

In addition to the general requirements of the Graduate School for the Master of Science degree, students must fulfill the following requirements:

The minimum of thirty-two semester hours will be distributed as outlined below:

1. All graduate students will be required to take, or present transfer credit for Chemistry 547, 548, 582, 609, 631, and a minimum of three hours credit in a chemistry laboratory course (Chemistry 510, 556, 563, 566, 616, 617).
2. A maximum of twelve semester hours of research (Chemistry 682) may be applied toward the degree requirements.
3. 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.

The Departments of Chemistry, Physics, Mathematics, and Education offer correlated courses in a cooperative degree plan for the Master of Arts degree with a major in Physical Sciences. These courses provide a broad base in the physical sciences to meet the needs of teachers in the secondary schools. The requirements for the Master of Arts degree are listed on page 00.

### Courses

510. **Advanced Chemical Preparations.** 3 hrs.  
The syntheses of organic and inorganic compounds which use specialized techniques. 1 lec-6 lab.
520. **Fundamentals of Chemistry.** 4 hrs. S. Offered on demand.  
Open only to M.A. candidates. 3 lec-1 lab.
547. **The Nature of Chemical Bonding.** 3 hrs. I.  
A modern viewpoint of structural chemistry with examples from organic and inorganic chemistry. 3 lec.  
PR: Chemistry 358.
548. **Advanced Inorganic Chemistry.** 2 hrs. II.  
2 lec.  
PR: Chemistry 547.
556. **Instrumental Analysis.** 4 hrs. I, S.  
A study of use and application of modern analytical instruments and techniques. 2 lec-6 lab.  
PR: Chemistry 345, and 357 or 307.
562. **Nuclear Chemistry and Physics.** 3 hrs. II.  
An introduction to the phenomena of nuclear physics and chemistry. 3 lec.  
PR: Mathematics 221.
563. **Nuclear Chemistry and Physics Laboratory.** 2 hrs. II.  
4 lab.  
CR: Chemistry 562.
566. **Organic Qualitative Analysis.** 3 hrs. Offered on demand.  
The identification of organic compounds with the aid of modern instruments. 1 lec-6 lab.
575. **Biochemistry.** 3 hrs. I.  
A discussion of energy relationships in biological cycles and the mechanism of metabolism.  
PR: Chemistry 256.
580. **Quantum Mechanics.** 3 hrs. Offered on demand.  
A study of waves and particles, the Schroedinger and Heisenberg formulations, particles in potential fields, scattering and perturbation theories, and applications to atomic and nuclear structure, 3 lec.  
PR: Physics 401 or Chemistry 547.



582. **Advanced Organic.** 3 hrs. II.  
3 lec.  
PR: Chemistry 547.
604. **Theories of Analytical Chemistry.** 2 hrs. Offered on demand.  
PR: Chemistry 547.
607. **Theoretical Organic.** 2 hrs.  
A study of the mechanisms of organic reactions.  
PR: Chemistry 547.
609. **Thermodynamics I.** 2 hrs. I.  
CR: Chemistry 547.
610. **Thermodynamics II.** 2 hrs. II.  
PR: Chemistry 609.
613. **Stereochemistry.** 3 hrs.  
The stereochemistry of organic and inorganic compounds. 3 lec.  
PR: Chemistry 547.
616. **X-Ray Diffraction.** 3 hrs. Offered on demand.  
The properties of X-rays and crystal structure. 2 lec-3 lab.
617. **Spectroscopy.** 3 hrs. Offered on demand.  
A study of emission and absorption spectroscopy. 2 lec.-3 lab.  
PR: Mathematics 221.
618. **Kinetics.** 3 hrs. II.  
An advanced study of reaction rates and mechanisms.  
PR: Chemistry 547.
626. **Organic Chemistry for Teachers.** 55 hrs. S. Offered on demand.  
A study of the relationship between the molecular structure and the reactivity of organic compounds, with emphasis on modern methods of structural analysis. Open only to M.A. degree candidates.
627. **Physical Chemistry for Teachers.** 5 hrs. S. Offered on demand.  
A study of energy relationships on the atomic and molecular levels as they contribute to an understanding of the chemical properties of matter. Open only to M.A. degree candidates.
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. **Advanced Quantum Mechanics.** 3 hrs. I.  
PR: Chemistry 580 or physics equivalent.

682. **Research.** 1-12 hrs. I, II, S.

PR: Approval of department chairman.

Directed, original investigation in a field of chemistry. 12 semester hours credit in research 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 may be reported at the close of each term or semester.

## CLASSICAL LANGUAGES

Professor Hoy

### Latin

501. **Roman Life: Pliny, Martial, Juvenal.** 3 hrs.

PR: Four years high school Latin or equivalent in college courses.

502. **Virgil's Aeneid. V-II-XII.** 3 hrs.

PR: Four years high school Latin or equivalent in college courses.

503. **The Roman Stage: Comedies of Plautus and Terence.** 3 hrs.

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.

## CLASSICS

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

535. **Greek Civilization.** 3 hrs. I.

536. **Roman Civilization.** 3 hrs. II.

## COMMUNICATION ARTS

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

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

Students lacking the undergraduate equivalent for any course in Group 1 must take this course for graduate credit. Work taken under Group 2 must be distributed so that at least nine hours is outside any area of emphasis. A course in research method must be taken for credit. Not more than one will be permitted. For description of courses consult the appropriate departmental listings.

Minimum Requirements ..... 36 hours



## GROUP 1 ..... 3-9 hours

Library Science 510 or Journalism 601  
 Speech 532  
 Education 565

## GROUP 2 ..... 18-27 hours

Library Science 501, 504, 505, 550, 582-585, 604,  
                                 607, 610, 615, 620, 621, 625, 630, 635, 640  
 Speech 507, 508, 531, 533, 540, 545, 550, 601, 631, 634, 679, 681  
 Education 566, 610, 612, 621, 640, 641, 679, 681  
 Journalism 527, 528, 530, 531, 602, 603, 604, 605, 606, 607,  
                                 608, 609, 611, 612, 645

## GROUP 3 ..... 3-9 hours

Art 650  
 Education 543, 545, 601, 606  
 Geography 530  
 Sociology 339, 625  
 Other courses with consent of adviser

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

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

## ECONOMICS

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

502. **Business Cycles.** 3 hrs. II.

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

PR: Economics 242, 300, or equivalent.

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.

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.

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 Educational 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.
620. **International Economics.** 3 hrs.  
Evolution of the present international economy, stressing the change in institutional mechanisms as they are adapted to a changing world economy.  
PR: Economics 242, 300, or equivalent.
640. **The Evolution of Economic Thought.** 3 hrs.  
A survey of the development of economic thought into the present century. Emphasis on Smith, Malthus, Ricardo, Mill, Marx, Marshall, Veblen and Keynes.  
PR: Economics 242, 300, or equivalent.
642. **National Income Analysis.** 3 hrs.  
Composition of the national income and its measurement; input-output analysis; use of national income data. Problems of economic growth and stabilization, and policy alternatives.  
PR: Elementary Statistics and Business Cycles.
643. **Advanced Economic Theory I.** 3 hrs.  
Theory of the firm. Price and production policy, non-price competition, and oligopoly. Cost, theory and empirical measurement. Income distribution, particularly interest theory.  
PR: Economics 328, or equivalent.
644. **Advanced Economic Theory II.** 3 hrs.  
Macro-economic theory. The aggregate consumption function; other determinants of the level of aggregate income. Post Keynesian theory. General equilibrium theory, Economics of Welfare.  
PR: Economics 326, or equivalent.



**646. Monetary Theory.**

Objectives and methods of the Federal Reserve System. Brief historical survey, but principal emphasis on recent and current problems. Also, banking and debt structure, international monetary relations, objectives of fiscal policy and stabilization policies of monetary-fiscal authorities; fiscal formulas, automatic stabilizers, Bank Reserves, and Open Market Operations.

Open Market Operations.

PR: Economics 310, or equivalent.

**648. Economic and Financial Concepts. 3 hrs.**

Provides an understanding of the principles of economics which includes micro-economic and macro-economic theory. This course is required of all M.B.A. students not possessing at least six semester hours of undergraduate credit in economics. It is not to be used as credit toward a degree.

**681. Thesis. 3-6 hrs.**

## EDUCATION

Professors Morris, Anderson, Arhelger, Brown, Cubby, Gibbins, Hayes, Hess, Irvin, Nuzum, Runyan, Willey

Associate Professors Campbell, Core, Felty, Gray, Jenkins, Lichtenstein, Queen, Regula, Ritchie, Turner, Wallace

Assistant Professors Fulks, Gordon, Hunter

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

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

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

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

1. Complete 15 semester hours of graduate courses with a 3.0 (B) average on all graduate work attempted.

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

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

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

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

Courses for persons minoring in education must be chosen from the following: Education 517, 535, 543, 545, 560, 566, 590, 609, 610, 614, 515 or 615, 616 or 648, 635.

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

## CERTIFICATE CURRICULA

### A. COUNTY SUPERINTENDENT

Minimum Requirements .....	32-36 hours
1. Education 601, 602, 603, 604, 606, 675 .....	18 hrs.
2. Education 560, 610, 616 or 648, 621 .....	12 hrs.
3. Electives selected with approval of adviser .....	6 hrs.

### B. ELEMENTARY PRINCIPAL

Minimum Requirements .....	32-36 hours
1. Education 560, 601, 604, 606, 610, 616, 621 .....	21 hrs.
2. With the approval of the adviser, select not fewer than six hours in student's field of interest (courses listed as education excluded) .....	6 hrs.

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

† Experience not required of non-school counselor students.



3. Elective selected with approval of adviser ..... 6-9 hrs.

### C. SECONDARY PRINCIPAL

Minimum Requirements ..... 32-36 hours

1. Education 560, 601, 604, 606, 610, 621, 648 ..... 21 hrs.
2. With the approval of the adviser, select not fewer than six hours in student's field of interest (courses listed as education excluded) ..... 6 hrs.
3. Electives selected with approval of adviser ..... 6-9 hrs.

### D. GENERAL SUPERVISOR

Minimum Requirements ..... 36 hours

1. General Requirements  
Education 560, 601, 604, 606, 610, 616 or 648, 621 ..... 21 hrs.
2. \*Practice in Supervision  
Education 672, 673, 674 ..... 9 hrs.
3. \*\*Courses to meet individual needs, such as:  
Education 543 or 545, 657, 667 or 670, 671, etc. .... 6 hrs.

Elementary supervisors must take Education 616. Those in secondary must take Education 648.

\*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.

\*\*The thesis may be written in the area of the student's individual needs. If this is done, Education 681 will apply toward requirement 3.

### E. SPECIAL SUPERVISOR

Minimum Requirements ..... 36 hours

1. General Requirements  
Education 560, 601, 604, 610, 616 or 648, 621 ..... 21 hrs.
2. \*Practice in Supervision  
Education 672, 673, 674 ..... 9 hrs.
3. Graduate courses in specialization ..... 6 hrs.

Elementary supervisors must take Education 616. Those in secondary must take Education 648.

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

### F. GUIDANCE COUNSELOR

Minimum Requirements ..... 32-36 hours

One or more courses from each of the following areas:

1. Principles of Guidance  
Ed. 590\*, Ed. 610, Ed. 613, Ed. 640, Ed. 641

2. Individual Inventory  
Ed. 535, Ed. 635, Ed. 646\* Psy. 506, P.E. 565
3. Counseling  
Ed. 614\*, Ed. 649\*, Ed. 651\*, Soc. 512, Soc. 531
4. Environmental Information  
Ed. 647\*, Bus. Adm. 524, Econ. 525, Econ. 561, Geog. 520, Geog. 606, Home Ec. 515, Phy. Ed. 560, Pol. Sci. 600, Soc. 508, Soc. 533, Soc. 535, Soc. 539, Soc. 602
5. Psychology  
Ed. 520, Ed. 533, Ed. 616\*\*, 648\*\*, Psy. 508, Psy. 516, Psy. 518, Psy. 614
6. Research  
Ed. 517, Psy. 623, Psy. 624, Ed. 681

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

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

## G. ADVANCED STUDY IN SCHOOL ADMINISTRATION

(Superintendent's Permanent License)

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 completion of any prescribed list of courses and other experiences does not lead necessarily to the certificate. It can be earned only by demonstrated capacity for original investigation, with scholarly attainment in the area of school administration, and a comprehensive grasp of the basic concepts and problems in the entire field of education.

Students may apply for admission to this program after completing 24 hours of graduate work with a minimum scholastic average of 3.0 (B) including Education 601, General School Administration: Basic Course; Education 604, The School Principal; Education 606, Supervision of Instruction: Basic Course; Education 560, Philosophy of Education; 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 standardized tests. Holders of the master's degree with superior qualifications may seek admission to the program. Eligibility for admission is determined by an 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.

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

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

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

Several positions for which this program prepares are:

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

## TEACHER EDUCATION CURRICULA

### A. ELEMENTARY

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

Minimum Requirements .....	32-36 hours
1. Education 609, 560 or 610, 616, 621 .....	12 hrs.
2. With the approval of the adviser select from Education 515, 535, 543, 560, 610, 615, 619, 635, 656, 657, 670, 671, 678 .....	9 hrs.
3. Electives (Must be approved by the adviser) .....	11-15 hrs.

## B. SPECIAL EDUCATION

### Option A

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

Minimum Requirements .....	32-36 hours
1. Education 609, 616, 621 .....	9 hrs.
2. Education 520, 533, 535, 543, 553 and 629 .....	21 hrs.
3. Speech 518 .....	3 hrs
4. Electives in departments other than education .....	3 hrs.

### Option B

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

Minimum Requirements .....	36 hours
1. Education 609, 616, 621, 681 .....	15 hrs.
2. Education 625, 626, 627, 628, 629, 544, 596 .....	15 hrs.
3. Electives outside of education selected with approval of adviser .....	6 hrs.
Recommended courses:	
Sociology 535 or 539	
Art 601	
Music 670, 675	

## C. ART

Admission to the program requires 26 semester hours of art. Deficiencies in undergraduate work must be made up by taking prescribed courses for undergraduate credit.

Minimum Requirements .....	36 hours
1. Education 609, 616, 648 .....	6 hrs.
Note: Students electing to write theses must include Education 621.	
560, 590, 610, 528, 621 .....	6 hrs.
2. Art 501, 502, 504, 505 .....	6-9 hrs.
601, 602 .....	3-6 hrs.
650, 651, 652, 653, 654, 655, 656 .....	9-12 hrs.
670 .....	2 hrs.
3. Pass a comprehensive written and/or oral examination on the courses completed.	
4. Present an acceptable exhibition of the creative work achieved during the period of graduate study.	

## D. MUSIC

The degree Master of Arts with a major in music education requires a minimum of 32 semester hours of graduate work of which not more than 6 hours may be earned by a thesis. The thesis may be a problem report, graduate



recital, or music composition of merit. If a thesis is not submitted, a minimum of 36 hours of course work must be completed. All candidates for the master's degree must participate in a major music ensemble.

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

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

### Instrumental

Education .....	6 hours
Education 648, Advanced Studies in Human Adjustment .....	3 hrs.
or Education 616, Advanced Studies in Child Development .....	3 hrs.
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 676 or Education 621 .....	3 hrs.
Music Education Electives .....	5 hrs.

### Vocal

Education .....	6 hours
Education 648, Advanced Studies in Human Adjustment .....	3 hrs.
or Education 616, Advanced Studies in Child Development .....	3 hrs.
Education 606, Supervision of Instruction .....	3 hrs.
Music History and Literature .....	6 hours
Music 601a, Survey of Music Literature .....	3 hrs.
Music History Electives .....	3 hrs.
Music Education .....	18 hours
Music 610, Philosophy of Music Education .....	3 hrs.
Music 611, Psychology of Music .....	3 hrs.
Music 629, Choral Conducting and Interpretation .....	2 hrs.
Music 676 or Education 621 .....	3 hrs.
Music Education Electives .....	7 hrs.
Electives in Music .....	6 hours

### E. LIBRARIAN

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

Minimum Requirements .....	36 hours
1. Education 590, 609, 610 or 528 and 543 or 545 .....	12 hrs.
2. Library Science, including Library Science 621 .....	18 hrs.
3. Electives (selected with the approval of adviser) .....	6 hrs.

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

### F. READING SPECIALIST

For teachers who wish to have a Professional Certificate endorsed for serving as reading specialist in kindergarten through grade 12:

Minimum Requirements .....	32-36 hours
1. Education 609, 560 or 610, 621 .....	9 hrs.
2. Education 636, 637, 611 or 638, 639, 642 .....	15 hrs.
3. Education 535 or 635, 616, 648, 619 .....	12 hrs.

Secondary teachers must take Education 611, elementary must take, Education 638.

### G. TEACHER EDUCATION ASSOCIATE

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

1. Must complete the requirements for the master's degree.
2. Complete the following in meeting the requirements for the master's degree or as credit beyond the master's degree:
  - (a) Fifteen (15) or more semester hours of course work in each area of specialization at the secondary level in which he supervises student teachers.
  - (b) Any fifteen (15) or more semester hours completed from the required areas on the master's degree program in elementary education at Marshall University (or comparable to the Marshall program if completed at another institution) will suffice for the specialization requirement for the elementary supervising teacher.
  - (c) Education 606 and/or 610—3 hours
  - (d) Education 678—3 hours.
3. Shall hold a valid professional license endorsed for the specialization(s) in which he supervises student teachers.



4. Shall have five (5) years of successful teaching experience, two of which shall be in the area of specialization and/or at the grade level in which he supervises student teachers.
5. Shall be recommended by the Director of Student Teaching at Marshall University, after he has completed a minimum of six (6) semester hours including Education 678: The Supervising Teacher.

## H. SECONDARY

(For programs in Art Music, and Special Education, refer to Sections B, C, D.)

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

### 1. BIOLOGICAL SCIENCES

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

Minimum Requirements ..... 36 hours

1. Education ..... 9 hrs.

To be selected from the following courses:

Education 515, 528, 535, 560, 565, 590, 609, 610, 619,  
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, 504, 601, 607, 608, 615, 616 and 630.

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

### 2. BUSINESS

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

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

Minimum Requirements ..... 32-36 hours

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

- a. A minimum of nine semester hours from the following professional business education courses: 621, 624, 625, 626, 627 ..... 9 hrs.
  - b. A minimum of six semester hours from the following methods courses: 629, 630, 631 ..... 6 hrs.
  4. Business Administration: A selection of appropriate course work from business administration courses ..... 9 hrs.
  5. Electives: Selected with the approval of adviser ..... 2-6 hrs.
- NOTE: Not to include Business Education 624, 625, 626, 627, 628 or courses in education except Education 679 and 681.

### 3. ENGLISH

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

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

- Minimum Requirements ..... 32-36 hours
1. Education 541, 545, 648, 652 ..... 12 hrs.
  2. English 555 and one of the following: English 575, 631 or 632 ..... 6 hrs.
  3. Education 621 or English 630 ..... 3 hrs.
  4. Electives in Education and English ..... 11-15 hrs.  
(Students are required to do at least one-half of their work in English.)

### 4. HOME ECONOMICS

- Minimum Requirements ..... 32-36 hours
1. Education 621 and Home Economics 600, Home Economics Education 601, 602, 603 ..... 12-15 hrs.  
NOTE: Education 621 and Home Economics 600 and Home Economics Education 601 required of all students.
  2. From Education 520, 535, 560, 565, 566, 590, 609, 610, 616, 648 ..... 6-9 hrs.
  3. From Home Economics Education 506 and from Home Economics 500, 503, 505, 507, 513, 515, 516, 519, 520, 527, 561, 581-585, 605, 606, 665, 684-685, 690-691 ..... 12-18 hrs.
  4. Electives (selected with approval of adviser) ..... 0-6 hrs.

### 5. PHYSICAL SCIENCE

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

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

- Minimum Requirements ..... 32-36 hours



1. From Education 560, 590, 609, 610 or 528, 619, 621, 640, 648 9 hrs.  
Six semester hours of education must be done on the campus.
  2. Education 621 ..... 3 hrs.
  3. Business Education:  
Note: Students electing to write thesis must include Education 621.
  2. Chemistry and Physics ..... 18 hrs.
  3. Electives in science, mathematics, or education .....5-9 hrs.
- All courses must be selected with the approval of the adviser.

## 6. SOCIAL STUDIES

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

Minimum Requirements ..... 32-36 hours

1. Professional and specialized courses ..... 9 hrs.

Education 667, Teaching Social Studies in

Secondary Schools ..... 3 hrs.

or

Education 670, Teaching Social Studies in

Elementary Schools ..... 3 hrs.

Education 648, Advanced Studies in

Human Adjustment ..... 3 hrs.

or

Education 616, Advanced Studies in

Child Development ..... 3 hrs.

Education 640, Literature of Education ..... 3 hrs.

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

2. Social Studies and Electives .....23-27 hrs.

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

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

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

## 7. SECONDARY SCHOOLS

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

Minimum Requirements .....	32-36 hours
1. Education 609, 610 or 528, 621, 648 .....	12 hrs.
2. Education electives selected with approval of the adviser from Education 515, 517, 535, 545, 560, 590, 605, 614, 615, 616, 619, 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.

**Courses**

515. **History of Modern Education.** 3 hrs. S.  
Our debt to the ancient Hebrews, Greeks, and Romans. Emphasis on movements since the beginning of the Renaissance.
517. **Statistical Methods.** 3 hrs. II, S.  
Elementary statistics for students in economics, education, political science and sociology.  
PR: Consent of instructor.
520. **Introduction to Exceptional Children.** 3 hrs. I, II, S.  
The study of children who deviate from the average in mental, physical and social characteristics, including a study of the characteristics of such children and the adaptation of educational procedures to their abilities and disabilities.
528. **The Junior High School Curriculum.** 3 hrs. II, S.  
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.  
Mental retardation, identification, causes, and prevention.  
PR: Education 520 and/or consent of instructor.
535. **Tests and Measurements.** 3 hrs. I, II, S.  
History, basic philosophy, and elementary statistical devices for evaluating pupil progress; new type tests constructed and standardized tests for elementary and secondary schools examined and administered.  
PR: Consent of instructor. Enrollment in Education 405 or 450.
540. **Practicum With Mentally Retarded.** 3 hrs. I, II, S.  
Supervised experience in the area of emphasis. Permission of director of program of Special Education.
541. **Literary Materials for English and Social Studies.** 3 hrs. I, S.  
Reading and evaluation of a variety of literary selections suitable for grades 7-12.



543. **Teaching of Reading in Elementary Schools.** 3 hrs. I, II, S.  
Modern techniques and practices in the teaching of reading.  
PR: Education 319.
544. **Characteristics of Crippled Children.** 3 hrs. I, II, S.  
Study of psychological, social, emotional and educational problems which may accompany crippling conditions.  
PR: Education 420 or 520.
545. **Teaching of Reading in Secondary Schools.** 3 hrs. I, II, S.  
Principles underlying teaching of reading in secondary schools.  
PR: Education 319.
553. **Curriculum Development for Teachers of Mentally Retarded.** 3 hrs.  
I, II, S.  
Organization of instruction for educable, slow learners. Emphasis on curriculum, methods, and evaluation. Demonstrations and observation with the mentally retarded. A laboratory course.  
PR: Education 520 and 533.
560. **Philosophy of Education.** 3 hrs. I, II, S.  
Basic philosophic schools and concepts and their application to educational practice.  
PR: 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. II, S.  
Basic techniques in making slides, photographs, dry and wet mountings, felt board materials, movies, tape recordings, and similar teaching aids.
- 582-583-3584-585. **Special Topics.** 1-4; 1-4; 1-4; 1-4 hrs. I, II, S.
590. **Principles and Practices of Guidance.** 3 hrs. I, II, S.  
Objectives, principles, and practices of guidance.  
CR: Enrollment in Education 450.
596. **Practicum with Children or Adolescents having Crippling Conditions.**  
3 hrs. I, II.  
Student teaching under supervision of Marshall University faculty in cooperation with schools.  
PR: Education 444 or 544.
601. **General School Administration: Basic Course.** 3 hrs. I, S.  
Federal and state participation in school administration; roles of state and county boards of education; relation of schools to other community agencies; organization of staff and selection of personnel.
602. **General School Administration: Financial Aspects.** 3 hrs. I or II, S.  
Basic principles of school finance; taxation for school support; budgeting; accounting and auditing; insurance; extra levies and bond issues.  
PR: Education 601.

603. **General School Administration: Plant and Equipment.** 3 hrs. I or II, S.  
Planning buildings; architectural service; maintenance and replacement of equipment; transportation equipment and its maintenance and use.  
PR: Education 601.
604. **The School Principal.** 3 hrs. I, S.  
Duties and responsibilities of elementary and secondary school principals; problems in organizing and directing the school program.  
Course content is adjusted to the needs of either elementary or secondary school principals.  
PR: Education 601.
605. **Group Guidance.** 3 3 hrs. I, II, S.  
Designed to give graduate students an understanding in the use of procedure for guidance and counseling in groups.  
PR: Education 614.
606. **Supervision of Instruction: Basic Course.** 3 hrs. II, S.  
Principles; procedures used in improving instructional program in schools.  
Course content is adjusted to the needs of either elementary or secondary school principals.
609. **The Teacher and School Administration.** 3 hrs. I or II, S.  
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, II, S.  
Curriculum development in elementary and secondary schools; study is given to theory, objectives, plans, practices and evaluation in curriculum development.  
Course content is adjusted to the needs of either elementary or secondary school teachers and principals.
611. **Practicum in the Teaching of Reading in the Secondary Schools.** 3 hrs. S.  
Clinical experience in the teaching of reading for teachers in the secondary schools with emphasis on skills and understandings necessary for the teaching of remedial reading.  
PR: Education 445 or 545.
612. **Audio-Visual Administration and Supervision.** 3 hrs. I or II, S.  
Theory and practice related to financing, maintaining, and improving, audio-visual programs, and to administrative and supervisory services, training, research, and public relations.  
PR: Education 465 or 565 or a combination of Speech 532, Library Science 510 and Education 466 or 566.
613. **Organization and Administration of Guidance Programs.** 3 hrs. I, S.  
Problems in planning and administering guidance programs in elementary and secondary schools.



614. **Counseling Techniques.** 3 hrs. I, II, S.  
Techniques employed by the counselor with emphasis on interviews.
615. **History of Education in the United States.** 3 hrs. S.  
Development of public and private educational systems in the United States.
616. **Advanced Studies in Child Development.** 3 hrs. I, II, S.  
Nature of growth and environmental factors affecting child development.
- 617-618. **Field Course in Current School Problems.** 3; 3 hrs. I, II, S.  
Investigations in current problems of local schools; content determined by needs of students.
619. **Educational Psychology.** 3 hrs. I or II, S.  
Study of learning theories and their application to teaching.
620. **Conservation Education.** 3 hrs. S.  
Basic conservation concepts and course content; the materials and methods for conservation teaching. Elements of soil, water, and human conservation are presented.
621. **Educational Research and Writing.** 3 hrs. I, II, S.  
Investigative methods and techniques and their application.
625. **Supervision: Special Education Programs.** 3 hrs. I, S.  
Problems of supervision of programs for the mentally retarded. Preparation of budgets, state regulations, and school relationships.  
PR: Education 520, 533, 540, 553.
626. **Diagnostic—Clinical Practices—Special Education.** 3 hrs. II, S.  
Team approach to diagnosis and treatment of exceptional children.  
PR: Education 520, 533, 540, 553.
627. **Medical—Psychological Aspects of Exceptional Children.** 3 hrs. I, S.  
Theoretical and practical approach to identifying programming for atypical children. Community resources, from the medical, clinical, psychological and pathological fields, are utilized.  
PR: Undergraduate degree with a major in Special Education or permission of director of Special Education.
628. **Rehabilitation Techniques.** 3 hrs. II, S.  
The team approach to physical, mental, and emotional rehabilitation. Methods of identification and assessment; case study and referrals; follow-up procedures; vocational placement and VR-public school cooperative endeavors.  
PR: Education 520, 533 or permission of instructor.
629. **Seminar in Special Education.** 3 hrs. I, II, S.  
Research methods and current significant findings in special education. Guest speakers.  
PR: Education 520, 533, 540, 553.

635. **Evaluation in Elementary and Secondary Schools.** 3 hrs. S.  
Procedures for evaluating effectiveness of a school program with emphasis on procedures other than formal tests.
636. **Modern Elementary School Reading Program.** 3 hrs. I, II, S.  
Survey, analysis and evaluation of methodology as related to educational objectives, learning theory and principles of human growth and development.  
PR: Education 443 or 543 for elementary. Education 445 or 545 for secondary.
637. **Diagnosis and Correction of Reading Difficulties.** 3 hrs.  
Study and the causes of reading difficulties, diagnostic devices and techniques, and remedial methods and materials.  
PR: Education 636.
638. **Practicum in Diagnosis and Correction of Reading Disabilities.** 3 hrs.  
Practical experience in diagnosis and corrective treatment of reading disabilities.  
PR: Education 637.
639. **Seminar: Problems and Issues in Reading Instruction.** 3 hrs.  
Study of research findings in reading instruction, emphasis given to psychological and sociological implications for specialists and supervisors.  
PR: Education 638.
640. **Literature of Education.** 1-3 hrs. I, II, S.  
A program of reading, either extensive or intensive, and reports on a group of outstanding contributions to education; readings selected with guidance of adviser. Only one registration for Education 640 is permitted.
641. **Seminar in Education.** 2-3 hrs. I, II, S.  
A guided program of readings, reports and discussions. No student may register for this course a second time.
642. **Seminar: Reading Instruction for Individuals with Special Needs.** 3 hrs.  
Study of research findings, methodology and instructional materials for the atypical learner, illiterate adult and others.  
PR: Education 639.
646. **Individual Inventory Techniques.** 3 hrs. II, S.  
Techniques of collecting, recording, and interpreting data.  
PR: Education 417-517 or 435-535.
647. **Occupational Information Techniques.** 3 hrs. II, S.  
Techniques used in selecting, filing, and using materials pertaining to occupations.
648. **Advanced Studies in Human Adjustment.** 3 hrs. I, II, S.  
Psychological foundations of personality development with emphasis on principles of mental health as related to problems of everyday living.



- 649-650. **Seminar in Counseling.** 3; 3 hrs. I, II, S.  
Counseling tools and techniques, with emphasis on problem categories and patterns as related to the psychology of individual differences.  
CR: 651 and permission of instructor.
651. **Practicum in Testing and Counseling.** 3 hrs. I, II, S.  
Practical experience in testing and counseling under professional supervision.  
CR: Education 649 and permission of instructor.
652. **Investigations in Teaching of English in Secondary Schools.** 3 hrs.  
Emphasis on specific problems in teaching of English rather than general techniques.
656. **Teaching of the Language Arts.** 3 hrs.  
Current methods and available materials for teaching handwriting, spelling, and oral and written expression.
657. **Teaching of Arithmetic.** 3 hrs. II, S.  
Acquainting students with available materials and study of the most widely accepted methods of teaching.
658. **Clinical Practice in Arithmetic Instruction.** 3 hrs. S.  
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.  
Plans for teaching social studies with suggestions for procurement and use of materials.
668. **Teaching the Biological Sciences.** 3 hrs. S.  
Methods, materials and techniques for teaching biology using demonstrations and laboratory experiences, projects and reports, field trips, and audio-visual aids. Providing and maintaining equipment.
670. **Teaching Social Studies in Elementary Schools.** 3 hrs. I, II, S.  
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.** 3; 3; 3 hrs. I, II, S.  
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. S.  
The legal basis of education in the United States in constitutions, statutes, court decisions, and in administrative rulings and practices with some emphasis on West Virginia.

**678. The Supervising Teacher.** 3 hrs.

Duties and responsibilities of the teacher who supervises student teachers.

PR: Must have been, be, or be nominated as a supervisor of student teaching.

**679. Problem Report.** 1-3 hrs. I, II, S.

The preparation of a written report on a research problem, experiment or field project in education. This report is not a thesis and students must complete an additional 33 hours unless 679 is followed by 681 for 3 hours of credit.

**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 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 completing 681 must defend their thesis in an oral examination.

## ENGLISH

Professors Brown, Barba, Mitchell, Sullivan, Tyson

Associate Professor Williams

Assistant Professors Gerke, Pittman

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

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

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

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

English 630, Materials and Methods of Research, is required for a major



in English and is offered twice during each year, once in the regular term, usually in the fall semester, and once in the summer session. This course should be scheduled among the first 12 hours of graduate study.

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

509. **Milton.** 3 hrs.  
Biographical and critical study, including Milton's English poetry and prose, and his literary and intellectual milieu.
511. **Chaucer.** 3 hrs.  
Background and influences, with biographical and critical study.
513. **English Novel to 1800.** 3 hrs.  
Defoe, Richardson, Fielding, Smollett, and Sterne, with supporting study of their most important predecessors and contemporaries.
514. **Nineteenth Century English Novel.** 3 hrs.  
Austen, Scott, the Brontes, Eliot, Dickens, Thackeray, Trollope, Meredith, Hardy, Butler, Wilde, and their contemporaries.
517. **English Drama to 1642.** 3 hrs.  
Non-Shakespearean English drama from its beginnings to the closing of the theatres.
533. **Contemporary English Poetry.** 3 hrs.  
Principal poetry since the Victorian period.
534. **Contemporary American Poetry.** 3 hrs.  
Principal poetry since 1900.
536. **Early and Medieval Literature.** 3 hrs.  
Nondramatic English literature exclusive of Chaucer, including Old English prose and poetry, early ballads and lyrics, metrical and prose romances, and the works of Langland and Malory.
537. **English Nondramatic Literature of the Sixteenth Century.** 3 hrs.  
Nondramatic prose and poetry of the period.
538. **English Nondramatic Literature of the Seventeenth Century.** 3 hrs.  
Nondramatic prose and poetry of the period.
542. **American Novel to 1900.** 3 hrs.  
Historical and critical study from the beginnings.
544. **Emerson, Poe, Whitman.** 3 hrs.  
Prose and poetry of these writers in their literary and intellectual milieu.
546. **Drama of the Restoration and 18th Century.** 3 hrs.  
Trends, movements, and dramatic types in the English theatre of this period.
547. **English Romantic Poets.** 3 hrs.  
Emphasis on Blake, Wordsworth, Coleridge, Byron, Shelley, and Keats.

555. **Literary Criticism.** 3 hrs.  
Historical study, with application of principles.
560. **English Literature from 1660 to 1745.** 3 hrs.  
Dryden, Swift, Pope, and their contemporaries.
561. **English Literature from 1745 to 1800.** 3 hrs.  
Major literature of the Age of Johnson.
575. **Introduction to Linguistics.** 3 hrs.  
The structural and descriptive approach to study of the English language.
- 580-581-582-583-584-585-586-587-588-589-590. **Special Topics.**  
1-4; 1-4; 1-4; 1-4; 1-4; 1-4; 1-4; 1-4; 1-4; 1-4 hrs.
600. **Shakespeare.** 3 hrs.  
Intensive reading of Shakespeare's plays. Problems of Shakespearean scholarship.
601. **Folk and Popular Literature.** 3 hrs.  
A study of types, variants, backgrounds, and influences.
603. **Children's Literature.** 3 hrs.  
Intensive reading of recent works in the field and evaluation of current trends.
610. **Readings in English and American Literature.** 2-3 hrs.  
Independent reading in a field not covered by regularly scheduled courses. Limited to English majors who have been admitted to candidacy.  
PR: Prior approval by department chairman.
615. **Victorian Poetry.** 3 hrs.  
Emphasis on Tennyson, Browning, Arnold, Hopkins, Hardy and the Pre-Raphaelites.
616. **Essayists of the 19th Century.** 3 hrs.
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.
640. **Teaching of College English.** 3 hrs.  
Required for Graduate Teaching Assistants in English.



679. **Problem Report.** 1-3 hrs.

681. **Thesis.** 1-6 hrs.

## GEOGRAPHY

Professors Clagg, Britton

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

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

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

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

A major must include:

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

501. **Historical Geography of the United States.** 3 hrs.

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

503. **Economic Geography of Asia.** 3 hrs.

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

505. **World Political Geography.** 3 hrs.

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

508. **Geography of Mexico.** 3 hrs.

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

509. **Geography of Canada.** 3 hrs.

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

510. **Urban Geography.** 3 hrs.

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

512. **Geography of Soviet Lands.** 3 hrs.  
Russian agriculture, grazing, mining, industry, and transportation explained in environmental terms.
513. **Geography of British Isles.** 3 hrs.  
Climate, minerals, and land forms checked in explaining economic activities.
520. **Field Geography of West Virginia.** 3 hrs.  
Type areas in lumbering, mining, agriculture, and industry checked through field methods.
525. **Climatology.** 3 hrs.  
Causes and results of regional weather of the world studied.
529. **Map Intelligence and Projections.** 3 hrs.  
Principles and practice in construction of map grid, 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 a 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

512. **Crystallography and Optical Mineralogy.** 4 hrs. II.  
Identification of crystal systems; determination of crystalline solids by polarizing microscope; application of microscope techniques to geological and industrial problems. 2 lec-4 lab.  
PR: Geology 200.
518. **Paleontology.** 3 hrs. S.  
Nature and origin of plant and animal fossils; development and evolution of life, its dominant forms through the geologic ages. Recommended for biological science majors.  
PR: Geology 201, or Zoology, 212, or graduate status.
522. **Economic Geology.** 3 hrs.  
Nature, origin, occurrence and distribution of the world's commercially valuable and useful mineral and rock resources.  
PR: Geology 201 or graduate status.
55. **Geomorphology.** 3 hrs. S.  
Geological 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 Moffat and Heath

Associate Professor Aldred

Assistant Professor Saunders

Students working toward the master's degree with a major in history are required to take History 618. One or more of the following courses which emphasize use of material and methods of research are recommended: 516, 525, 526, 633, 634.

504. **American Diplomacy, 1789-1900.** 3 hrs.  
American foreign policy from colonial times to 1900 emphasizing the gradual development of the United States and its achievement of membership in the family of nations.
505. **American Diplomacy, 1900-Present.** 3 hrs.  
American foreign relations in the 20th century. The gradual retreat from isolation in the period between World War I and II and modern American involvement in international commitments will be stressed.
- 506-501. **Special Problems.** 3 hrs.
518. **European Diplomacy.** 3 hrs.  
Particular attention is given to the period since the French Revolution. Diplomatic background of the growth of major continental nations. Diplomatic relations with non-European nations in the twentieth century is emphasized.

521. **The Era of the Renaissance and Reformation.** 3 hrs.  
The impact of the Renaissance upon esthetic, economic, and political developments especially in the 15th and 16th centuries. The decline of Catholicism and the growth of the Protestant movement, the influence of the two movements upon each other is stressed.
522. **The French Revolution and the Napoleonic Era.** 3 hrs.  
Society and government in Europe before the French Revolution and the influence of the Enlightenment; ideas and changes introduced by the Revolution and Napoleon and their effect on the institutions and economy of Europe.
525. **European History 1814-1914.** 3 hrs.  
A century of European political, economic, and social history. Its relationship to and influence upon the history of other world areas is noted. The impact of imperialistic rivalry is emphasized.
526. **European History 1814-1914.** 3hrs.  
The impact of World War I upon Europe, the era between two wars. The search for world peace, World War II and its aftermath are major topics of consideration.
527. **Russia in the 19th and 20th Centuries.** 3 hrs.  
Russia under the Czars, the impact of serfdom, the essential failure of reforms, the revolutions and the Communist era stressing the effect of Communism on the world. Emphasis is on modern Russian foreign policy.
532. **The United States since 1914.** 3 hrs.  
The United States since the outbreak of the First World War in 1914.
605. **Social and Economic Problems of American Colonies.** 3 hrs.  
English colonization in North America during the 17th and 18th centuries, with emphasis on political ideas and institutions, economic developments, social change and conflict.
606. **Social and Economic Problems of the National Period, 1789 to 1865.**  
3 hrs.  
The non-military and non-political aspects of the nation during the early laissez-faire period of the Industrial Revolution.
608. **The American Civil War and Reconstruction.** 3, hrs.
610. **Readings in History.** 2-3 hrs.  
These are readings in topics fitted to the need of the individual student. They may deal with any graduate area. This course is ordinarily restricted to off-campus students and is used sparingly.
612. **American Leaders to 1865.** 3 hrs.  
A chronological and biographical account of the major political figures of the nation from the organization of the government in 1789 to the end of the war to preserve it in 1865; a study of characters against the background of the events they helped to shape.



**613. Hispanic America. 3 hrs.**

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

**614. American Revolutionary Period, 1760-1789. 3 hrs.**

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

**615. American Leaders Since 1865. 3 hrs.**

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

**617. The Trans-Allegheny Frontier. 3 hrs.**

A survey of the significance of the frontier in American history.

**618. Methodology. 3 hrs.**

Survey of literature and practical experience in methods and sources of history through bibliographical study and research papers. Required of students beginning graduate work in history.

**619. Representative Historians and Their Works. 3 hrs.**

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

**621. The Victorian Period in England. 3 hrs.**

The impact of the Industrial Revolution upon the Victorian Compromise, the growth of modern imperialism as exemplified by England and the background of World War I.

**622. The Far East in the 20th Century. 3 hrs.**

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

**633. Problems in American History Since 1877-1917. 3 hrs.**

A research course in which the student probes a selected problem within the chronological span, 1877-1917.

**634. Problems in American History Since 1917. 3 hrs.**

A research course in which a student probes a selected problem within the period since 1917.

**679. Problem Report. 1-3 hrs.****681. Thesis. 1-6 hrs.**

**HOME ECONOMICS**

Professor Bennett

Associate Professors Neely and Strouss

*See also, Home Economics-Education Program listed under Education*

503. **Advanced Nutrition.** 3 hrs.  
Metabolism of foods as related to nutritional requirements of man. Reports of current research and other topics to add depth and perspective in nutrition.
505. **Quantity Food Service.** 3 hrs.  
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 203, 210 and Chemistry 104.
507. **Institutional Management.** 3 hrs.  
Administration of food service in institutions.
513. **Experimental Foods.** 3 hrs.  
Experimental study of chemical and physical factors affecting food preparation.  
PR: Home Economics 110 and 203, Chemistry 103 and 104.
515. **Family Relationships.** 3 hrs. I.  
Relationships in the family during its life cycle, with some consideration of family life in other cultures.
516. **Prenatal and Infant Care.** 3 hrs. II.  
Prenatal and postnatal care for mothers, development of the infant from before birth to two years of age.
519. **Tailoring.** 3 hrs.  
Contemporary methods of custom tailoring with emphasis on selection of suitable fabrics and construction processes for particular styles.  
PR: Home Economics 329 or consent of instructor.
520. **Household Equipment.** 3 hrs. I, II.
527. **Home Management Laboratory.** 3 hrs.  
Decision making, activity analysis, use of limited resources, and work simplification through individual and group analysis.
540. **Nutrition in the Home and School.** 3 hrs. I, S.  
Fundamental principles of human nutrition and their application in the home and school. Designed primarily for elementary teachers. (Not open to Home Economics majors.)
561. **The Family as Consumers.** 3 hrs.  
Analysis of economic factors related to provision of consumer goods and services; investigation of sources of consumer information; and means of providing economic security for families.



- 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.
600. **Philosophy and Trends in Home Economics.** 3 hrs.  
Analysis of the Home Economics field with emphasis on current developments.  
PR or CR: Education 621.
605. **Recent Developments in Clothing.** 3 hrs. S.  
Survey of recent literature and theory in the field of clothing.
606. **Recent Developments in Foods.** 3 hrs. S.  
Survey of recent literature and theory in the field of foods.
661. **Family Economics.** 3 hrs.  
Factors affecting material level of living of families, expenditure patterns, and impact of social change on resource allocation.  
PR: Home Economics 461-561 or equivalent.
665. **Home Management Theory and Research.** 3 hrs.  
Analysis of Home Management Theory and concepts as revealed through current research in the field.  
PR: Home Economics 358 or 427-527.
679. **Problem Report.** 1-3 hrs.
681. **Thesis.** 1-6 hrs.
- 684-685. **Special Problems in Home Economics.** 1-3; 1-3 hrs. I, II, S.  
Problems of particular interest to the graduate student. Registration by permission of adviser. Not more than four hours credit in Special Problems may be counted toward a master's degree.
- 690-691. **Seminar.** 1-3; 1-3 hrs.  
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.
601. **Evaluation in Home Economics.** 3 hrs.  
A course planned for secondary and college teachers in procedures for the appraisal of student progress in home economics and the evaluation of programs in home economics.  
PR or CR: Education 621.

**602. Curriculum Development in Home Economics. 3 hrs.**

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

PR or CR. Education 621.

**603. Supervision of Student Teaching in Home Economics. 3 hrs.**

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

## **JOURNALISM**

Professor Pitt

The program for the Master of Arts in Journalism provides courses and experiences to strengthen and enlarge skills and knowledge in mass communication (newspapers, radio-television, advertising, public relations, industrial editing, and journalism education).

All students in the program are required to complete Journalism 601 and 602 to provide a foundation of theory and research methods as applied in mass communications.

A student may, if he wishes, specialize in an area of mass communications by enrolling in the professional media internship and depth reporting courses. The selection of courses in the minor fields of study must complement this specialization.

Students who do not wish to specialize may select courses leading to a general knowledge and skill in mass communications.

If a student has considerable professional experience in mass communications, he most likely will complete the minimum number of hours required in his major (18 hours) and, should he not undertake a thesis, most of the remaining course work will be in minor fields of study. If he has little or no professional experience in mass communications, courses in his major field of study will predominate.

**527. Journalistic English. 3 hrs. I, II, S.**

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

**528. High School Publications. 3 hrs. I, II, S.**

An investigation of the function of school publications and an analysis of editorial content. Students do collateral reading or examine specific areas of school publications. For teachers interested in a minor or elective in journalism.

**530-531. Magazine Article Writing. 3; 3 hrs. I, II.**

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

PR: English Composition or its equivalent.



601. **Theory of Mass Communications.** 3 hrs. I.  
Required of all majors.
602. **Mass Communications Research and Methodology.** 3 hrs. II.  
Review and application of research techniques to problems of mass communications. Required of all majors.  
PR: Introductory statistics or consent of instructor.
603. **Professional Media Internship I.** 3 hrs. I, II, S.  
For those with no professional experience in mass communications, an internship will be arranged, if possible, to provide a minimum of 16 hours of professional experience a week. For those with professional experience, the internship will be a specialized study or research project.
604. **Professional Media Intership II.** 3 hrs. I, II, S.  
PR: Journalism 603.
605. **International Communications.** 3 hrs. I, S.  
Survey of communication structure and theory in authoritarian, communist, democratic systems. British, Scandinavian, French, Latin American, Japanese, Russian and Chinese press systems are emphasized, with problems of constructing a free press.
606. **Depth Reporting I.** 3 hrs. I, II, S.  
In depth study of a specialized area of reporting.  
PR: Journalism 606.
607. **Depth Reporting II.** 3 hrs. I, II, S.  
PR: Journalism 606.
608. **Seminar in Advertising Theory and Practice.** 2 hrs. I or S.  
Discussion and studies of theories and practice in the advertising field.
609. **Seminar in Public Relations.** 2 hrs. II or S.  
Discussion and studies of theories and practice in public relations.
611. **Advanced Motion Picture Production and Editing.** 3 hrs. I or II.  
Planning and production of motion picture segments.  
PR: Journalism 350, 351 and 360, or equivalents.
612. **History of Mass Communications, Specialized Study.**  
3 hrs. I or II.  
Analyses of the development of the media of mass communications in the United States. Emphasis on freedom of the press and current problems of the media.  
PR: Journalism 300 or equivalent.
681. **Thesis.** 1-6 hrs.  
PR: Consent of adviser.

## LIBRARY SCIENCE

Associate Professor Theis

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

501. **History of Books and Libraries.** 3 hrs.

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, II, S.

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

505. **Book Selection for Adolescents.** 3 hrs. I, II, S. P

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

510. **Foundation of Mass Communications.** 3 hrs. II.

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

550. **Library Practice (Field Work).** 3 hrs. I, II, S.

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

PR: Fifteen hours of library science.

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

582-583-584-585. **Special Topics.** 1-4; 1-4; 1-4; 1-4 hrs.

604. **Reading Guidance.** 3 hrs.

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

607. **The Library and the Curriculum.** 3 hrs.

610. **Administration and Operation of Libraries.** 3 hrs.

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

615. **Advanced Reference.** 3 hrs.

Study of specialized reference tools.

PR: Library Science 315.



620. **Advanced Cataloging and Classification.** 3 hrs.  
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.
625. **The Library in the Community.** 2 hrs.  
Study of the problems relating to the interpretation of the library to its constituents and methods of handling these problems with emphasis on successful public relations programs.
630. **Technical Processes.** 3 hrs.  
Methods of acquisition, processing routines in preparation work, conservation and circulation of materials.
635. **Government Publications and Special Materials.** 3 hrs.  
The form, production, distribution and subject content of official publications of state and national governments and of international agencies. Selection, acquisition, organization and use of these materials.  
PR: Library Science 615.
640. **Readings in Librarianship.** 1-3 hrs.  
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 Thompson

Courses may be taken with approval of student's adviser and the department chairman.

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.  
The algebra of vectors, the calculus of vectors with applications, introduction to tensor analysis.  
PR: Mathematics 221.
536. **Partial Differential Equations.** 3 hrs.  
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.  
The theory and technique of numerical computation involving interpolation methods, solution of systems of equations, and methods of solutions of ordinary differential equations.  
PR: Mathematics 335.
- 545-546. **Introduction to Theory of Statistics.** 3; 3 hrs. I, II.  
Probability spaces, random variables and algebra of expectations; sampling methods, estimation of parameters; tests of hypotheses; analysis of variance.  
PR: Mathematics 221.
548. **Fundamental Concepts of Modern Geometry.** 3 hrs.  
Finite geometries, basic background material for the modern development of Euclidean Geometry, other geometries.
549. **Projective Geometry.** 3 hrs.  
Projective geometry using both synthetic and algebraic methods.
550. **Fundamental Concepts of Modern Algebra.** 3 hrs.  
Structure of the abstract mathematical systems: Groups, Rings, Fields, with illustrations and applications from Number Theory.
551. **Linear Algebra.** 3 hrs.  
Vector spaces over the real and complex field, the algebra of matrices, linear transformations in a vector space.
- 560-561. **Functions of a Complex Variable.** 3; 3 hrs.  
Complex numbers, analytic functions, properties of elementary functions, integrals, series, residues and poles, conformal mapping.  
PR: Mathematics 221.

## MODERN LANGUAGES

Professors Martin, Lieberman, Perl

Associate Professor Parrish

### French

535. **19th Century Literature.** 3 hrs.  
The French romantic movement as exemplified in the poetry, drama, and the novel of the period.  
PR: French 224 or equivalent.
536. **19th Century Literature.** 3 hrs.  
Realistic and naturalistic fiction, realism in the theatre, and selected poems of Baudelaire, the Parnassians, and the Symbolists.  
PR: French 224 or equivalent.
- 555-556. **Special Topics.** 2-4; 2-4 4hrs. On demand.  
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.



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**German**

- 507-508 **Goethe's Faust.** 3; 3 hrs. On demand.  
Reading of "Faust" parts I and II. A presentation of the Faust legend.  
Goethe's life works as related to "Faust."  
PR: Graduate standing.
- 582-583. **Special Topics.** 2-4; 2-4 hrs. On demand.  
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. On demand.  
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.
- 590-591. **Special Topics.** 2-4; 2-4 hrs.  
Independent research in selected areas of Spanish and Spanish American literature that are not available in other courses in the catalog. The student has the opportunity to become familiar with leading authorities and bibliographies. Conferences and reports in Spanish.  
PR: Three hours of literature from courses numbered 320 or above and permission of the department chairman.
612. **Spanish American Poetry Before Modernism.** 3 hrs.  
Leading poets and trends in thought and versification of the colonial, neoclassic, and romantic periods  
PR: Two courses in Spanish beyond 204, at least one of which must be a literature course
620. **Spanish Romanticism.** 3 hrs.  
The trends and characteristics of the Romantic Movement in the writings of its leading exponents in lyric poetry, non-dramatic prose, and the theatre.  
PR: Two courses in Spanish beyond 204, at least one of which must be a literature course.
681. **Thesis.** 1-6 hrs.

## MUSIC

Professors Kingsbury, Shepherd

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

Assistant Professor Balshaw

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

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

(See Music-Education program listed under Education)

**601a. Survey of Music Literature. 3 hrs.**

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

**601b. Symphonic Literature. 3 hrs.**

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

**602a. Ancient, Medieval, and Renaissance Music. 3 hrs.**

Oriental and Greek music, Gregorian Chant, Thoubadours 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.



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604b. **Chamber Music Literature.** 2 hrs.

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

604c. **Song Literature.** 2 hrs.

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

604d. **Choral Literature.** 2 hrs.

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

605. **Introduction to Musicology.** 3 hrs.

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

606. **Music of the Church.** 2 hrs.

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

607. **Contemporary Church Music.** 2 hrs.

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

608. **Hymnology.** 2 hrs.

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

610. **Philosophy of Music Education.** 3 hrs.

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

611. **Psychology of Music.** 3 hrs.

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

612. **Projects and Problems in Music Education.** 3 hrs.

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

613. **Tests and Measurements in Music.** 3 hrs.

Principles and techniques of measurement in music.

614. **The Teaching of Music Appreciation.** 2 hrs.

Advanced methods and materials for teaching appreciation of music in grades 1-12.

615. **Band Maneuvers and Pageantry.** 2 hrs.

The marching band. The marching and musical problems which are encountered in training and operating a band for football games and other events involving marching and playing.

**616. Curriculum Construction and Revision. 3 hrs.**

Survey of recent developments in curriculum and their effect on music courses; consideration of various methods of determining and stating curriculum content. Preparation of a detailed course of study in a specific area of music education by each student.

**617. Seminar in Music Education. 3 hrs.**

An advanced study of basic concepts of current problems in music education.

**618a. Administration of Instrumental Music. 3 hrs.**

The planning and operation of the instrumental program and the details of programming the work in a school system.

**618b. Administration of Choral Music. 3 hrs.**

Organization for tryouts and selection of members, rehearsal schedules, and all detailed arrangements for school, public, and radio rehearsals and concerts as well as other problems of rehearsals and performances.

**619a. Seminar in Vocal Pedagogy. 2 hrs.**

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.

**620b. Choral Workshop. 2 hrs.**

Review of available materials for high school and junior high school levels and actual performance of chosen selections to give each student opportunity at singing, conducting, and discussion; also music for church and radio.

**625a. Woodwind Techniques. 1 hr.**

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

**625b. Woodwind Techniques. 1 hr.****626a. Brass Techniques. 1 hr.****626b. Brass Techniques. 1 hr.****627a. String Techniques. 1 hr.****627b. String Techniques. 1 hr.****628. Percussion Techniques. 1 hr.**



**629a. Choral Conducting and Interpretation. 2 hrs.**

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

**629b. Choral Conducting and Interpretation. 2 hrs.**

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

**630a. Instrumental Conducting and Interpretation. 2 hrs.**

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

**630b. Instrumental Conducting and Interpretation. 2 hrs.**

A continuation of 630a.

**640a. Music Theory. 3 hrs.**

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

**640b. Music Theory. 3 hrs.**

Continuation of Music 640a.

**641. Advanced Counterpoint. 3 hrs.**

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

**645a. Original Composition. 2 hrs.****645b. Original Composition. 2 hrs.****646a. Advanced Choral Arranging. 2 hrs.**

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

**646b. Advanced Choral Arranging. 2 hrs.**

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

**647a. Advanced Band Arranging. 2 hrs.**

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

**647b. Advanced Band Arranging. 2 hrs.**

A continuation of 647a.

**648a. Advanced Orchestra Arranging. 2 hrs.**

648b. **Advanced Orchestra Arranging.** 2 hrs.

649. **Dance Band Arranging.** 2 hrs.

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

650. **Acoustics of Music.** 2 hrs.

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

670. **Advanced Materials and Methods (Grades 1-6).** 3 hrs.

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

675. **Creative Activity for Children.** 3 hrs.

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

676. **Research Techniques and Writing.** 3 hrs.

679. **Problem Report.** 1-3 hrs.

681. **Thesis.** 1-6 hrs.

### Applied Music

682a, b, c, d. **Flute.** 1-2 hrs.

683a, b, c, d. **Oboe.** 1-2 hrs.

684a, b, c, d. **Clarinet.** 1-2 hrs.

685a, b, c, d. **Bassoon.** 1-2 hrs.

686a, b, c, d. **French Horn.** 1-2 hrs.

687a, b, c, d. **Trumpet.** 1-2 hrs.

688a, b, c, d. **Trombone.** 1-2 hrs.

689a, b, c, d. **Baritone.** 1-2 hrs.

690a, b, c, d. **Tuba.** 1-2 hrs.

691a, b, c, d. **Violin.** 1-2 hrs.

692a, b, c, d. **Viola.** 1-2 hrs.

693a, b, c, d. **Cello.** 1-2 hrs.

694a, b, c, d. **String Bass.** 1-2 hrs.

695a, b, c, d. **Piano.** 1-2 hrs.

696a, b, c, d. **Voice.** 1-2 hrs.

697a, b, c, d. **Organ.** 1-2 hrs.



**Miscellaneous**

572-573-574-575. **Special Topics.** 1-4; 1-4; 1-4; 1-4 hrs.

**PHILOSOPHY**

Professors Slaatte, Jennings

Associate Professors Choi, Holden

Assistant Professor Plott

Courses may be taken without prerequisites with approval of the instructor.

510. **Philosophical Sources of American Culture.** 3 hrs. Alternate years, S.  
Attention to thinkers most influential on American ideals and beliefs in religion, science, morality, politics, economics and education.
511. **John Dewey: Philosopher and Educator.** 3 hrs. Alternate years, S.  
Exposition of Dewey's philosophy and a comparative approach to his educational theory and influence.
519. **Religious Thought in the Western World.** 3 hrs. II, S.  
An historical approach to the philosophies of religion in the western world, including a comparative analysis of leading contemporary types.
520. **Recent and Contemporary Religious Thought.** 3 hrs.  
A survey of the major currents of religious thought in the twentieth century.
525. **Early Political Theory.** 3 hrs. I.  
Political thought and philosophy from Plato to the 17th century.  
(Same as Political Science 425.)
526. **Recent Political Theory.** 3 hrs. II.  
Political thought and philosophy from the 17th century to the present time. (Same as Political Science 426.)
551. **The Philosophy of History.** 3 hrs. II.  
Comparative survey and research on the theories of the meaning of history and culture from ancient to contemporary philosophers; including cyclical, progressive, economic, dialectical and eschatological types.  
PR: 12 hours of history courses.
553. **The Philosophy of Science.** 3 hrs. II.  
Crucial concepts in modern science relevant to contemporary philosophical issues concerning man and the universe; special attention to epistemological and ethical implications of natural law, induction, mathematical theory and the new physics.
598. **Directed Readings in Philosophy.** 3 hrs. I or II.  
Advanced research adaptable to the needs of students. Regular consultations with the chairman and staff.



**PHYSICAL EDUCATION**

(HEALTH EDUCATION, RECREATION AND SAFETY EDUCATION)

Professors Fitch, Mills, Hicks

**ADMISSION**

Students in Health and Physical Education must:

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

**COURSE REQUIREMENTS FOR THE DEGREE**

Minimum Requirements ..... 36 hours

1. Physical Education ..... 18 hrs.

Physical Education 565, 626, 635 and 670 are required.

If not selected or if less than six hours is earned, additional courses in Health and Physical Education must be selected to secure the total of eighteen hours.

2. Education 621 ..... 3 hrs.

(Should be included in first twelve hours undertaken)

3. Courses chosen with approval of the adviser ..... 9 hrs.

4. Minor field (with approval of adviser) ..... 6 hrs.

**560. Education for Personal and Family Life. 3 hrs.**

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

**565.\* Tests and Measurements in Health and Physical Education. 3 hrs.**

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

**575. Principles and Techniques for Recreation Leadership. 3 hrs.**

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

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

**582-585. Special Topics. 1-3 hrs.**

PR: Approval by department chairman and instructor.

**586, 587, 588, 589. Workshop in Physical Education. Credit to be arranged.**

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

**590. Problems and Practices in Traffic Safety and Driver Education. 3 hrs.**

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

PR: Safety Education 385.



600. **Dance Composition in Education.**

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

605. **Camp Counseling.** 3 hrs.

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

606. **Camp Programs for the Handicapped Child.** 2 hrs.

A study of camp procedures for the handicapped and practice in the development of camp programs for atypical individuals.

621. **Fundamental Sciences Applied to Physical Education.** 3 hrs.

Analysis of the sciences in terms of their application to the improvement of body functions and general well-being. Emphasis is on interrelation of physics, anatomy, and physiology to better understand body mechanics and posture.

622. **Physical Education for the Atypical Individual.** 2 hrs.

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

626.\* **History and Philosophy of Physical Education.** 3 hrs.

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

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

630. **Principles of Health and Physical Education.** 3 hrs.

Principles which have developed from the basic sciences and their relationship to health and physical education.

635.\* **Curriculum Construction in Health and Physical Education in Grades 1-12.** 3 hrs.

Principles, objectives, and procedures in curriculum construction of health and physical education programs. Typical programs studied and evaluated. Practice in curriculum construction for grades 1-12.

640. **Organization and Administration of Programs in Health, Physical Education and Recreation.** 3 hrs.

A study of the responsibility of administrators for the direction, policies, procedures, and supervision of programs in health and physical education. Procedures in organization and administration in the various fields, problems of title, credit, space, classification of activities are considered in relation to various levels of school and the necessary routine procedures for effective administration.



**645. Problems of Supervision of Health and Physical Education in the Elementary and Secondary Schools. 3 hrs.**

Analyses of current problems in health and physical education, projects, readings and reports to meet the needs of students having special problems and problems of supervision in city, county, and state school systems.

**650. Administration of School and Community Recreation. 3 hrs.**

The provision of adequate recreation services for schools and communities; standards and qualities of recreation services; methods of measuring existing services and their coordination and community organization procedures.

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

**655-669. Administration of School Athletic Programs. 1-5 hrs.**

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

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

**670.\* Methods of Research in Health and Physical Education. 3 hrs.**

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

PR: Physical Education 565 and 621.

**681. Thesis.**

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

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

\*Required for all majors.

## PHYSICS

Professor D. Martin

Assistant Professors Dumke, Manakkil

Marshall University through its Department of Physics provides a balanced curriculum of course work and research leading to the Master of Science degree with a major in physics. The courses available provide a sufficient flexibility to permit the structuring of degree programs to meet the needs and edu-



cational goals of students on an individual basis.

This degree program is intended primarily for students whose career goals are research in industrial and governmental laboratories or college teaching.

Entering students seeking a Master of Science degree in Physics must have a Bachelor of Science or Bachelor of Arts degree preferably with a major in physics. Deficiencies must be removed by taking the appropriate undergraduate courses for no graduate 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 General Physics and course material in Mechanics, Electricity, and Modern Physics. The results of these examinations are used to guide the student in his course of study.

#### REQUIREMENTS FOR A MASTER OF SCIENCE DEGREE

In addition to the general requirements of the Graduate School, candidates for the Master of Science Degree in Physics must fulfill the following departmental requirements:

1. The program for the degree will be worked out with the help and approval of an adviser from the physics staff.
2. A minimum of 4 and a maximum of 6 semester hours of research (Physics 682) must be applied toward the degree requirements.
3. A reading knowledge of German, French, or Russian is required.

Students must present five 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.

The Departments of Physics, Chemistry, Geology, Mathematics, and Education offer correlated courses in a cooperative degree plan for the Master of Arts degree in Physical Science-Education. These courses provide a broad base in the physical sciences to meet the needs of teachers in the secondary schools. See Program H-5, PHYSICAL SCIENCE, under Teacher Education Curricula.

#### COURSES

**562. Nuclear Chemistry and Physics.** 3 hrs. II.

An introduction to the phenomena of nuclear chemistry and physics.  
3 lec.

PR: Physics 203, 204 and Mathematics 221.

**563. Nuclear Chemistry and Physics Laboratory.** 2 hrs. II.

Laboratory course to accompany or follow Physics 562. 4 lab.

PR: Physics 203, 204 and Mathematics 221.

**570. Mathematical Methods of Physics.** 3 hrs. Offered on demand.

Applications of advanced topics in mathematics to problems in physics.

PR: Physics 203 and Mathematics 335.

576. **Solid State Physics.** 3 hrs. Offered on demand.  
A study of such topics as the crystalline state, specific heats, electronic properties, superconductivity, and related properties of solids. 3 lec.  
PR: Physics 320 or Chemistry 447 and Mathematics 221.
580. **Quantum Mechanics.** 3 hrs. Offered on demand.  
Mathematical formalism of quantum mechanics, particles in potential fields, perturbation theory and other approximation methods, scattering, applications to simple systems. 3 lec.  
PR: Physics 331 and Mathematics 335.
- 601-602. **Advanced Mechanics.** 3; 3 hrs. Offered on demand,  
Variational principals and Lagrange and Hamilton's equations; rigid body dynamics; special relativity; canonical transformations; Hamilton-Jacobi theory; Lagrangian and Hamiltonian formulations for continuous systems and fields.  
PR: Physics 331 and Mathematics 335.
- 603-604. **Advanced Electromagnetic Theory.** 3; 3 hrs. Offered on demand.  
Electrostatics and magnetostatics; Maxwell's field equations; interaction between the electromagnetic field and matter; radiation theory; relativistic electrodynamics.  
PR: Physics 302 and Mathematics 335.
609. **Thermodynamics.** 3 hrs. Offered on demand.  
Properties of gases, thermal properties of solids and liquids; thermodynamic theory; elements of kinetic theory and statistical mechanics.  
PR: Physics 203, 204 and Mathematics 335.
616. **X-Ray Diffraction.** 3 hrs. Offered on demand.  
A study of the properties of X-Rays, X-ray diffraction, and crystal structure. 2 lec-3 lab.  
PR: Physics 320 or Chemistry 547 or equivalent.
617. **Spectroscopy.** 3 hrs. Offered on demand.  
A study of emission and absorption spectroscopy. 2 lec-3 lab.  
PR: Physics 320 or Chemistry 547 or equivalent.
624. **Magnetic Resonance.** 3 hrs. Offered on demand.  
A course in nuclear and electron spin resonance. 3 lec.  
PR: Physics 480 or 580 or equivalent.
639. **Advanced Quantum Mechanics.** 3 hrs. Offered on demand.  
Advanced applications including complex atoms and molecular states; symmetry properties; introduction to relativistic quantum mechanics, particles, and fields. 3 lec.  
PR: Physics 480 or 580 or Chemistry 480 or 580.
658. **Advanced Nuclear Physics.** 3 hrs. Offered on demand.  
Theoretical description of nucleons and nuclear forces. Nuclear transformations. Introduction to fundamental particles and their properties. 3 lec.  
PR: Physics 562.



- 661-662. **Special Topics.** 1-3; 1-3 hrs. Offered on demand.  
PR: Graduate Status and Permission of Department Chairman.
- 661-672. **Seminar.** 1; 1 hr. I, II.
682. **Thesis Research.** 1-6 hrs. I, II, S.  
PR: Graduate Status and approval of Adviser.  
NOTE: The following courses are open only to students working for the master's degree in Physical Science-Education. See Program H-5 under Teachers College Curriculum.
640. **Fundamentals of Physics.** 4 hrs. S. Offered on demand.  
A course in fundamental concepts of physics to be studied in depth as required to teach properly a modern high school physics course. Lecture and laboratory.
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.  
Offered on demand.
647. **Mechanics for Teachers.** 5 hrs. Offered on demand.  
A course designed to provide additional depth in mechanics for high school teachers. Lecture and laboratory.
648. **Modern Physics for Teachers.** 5 hrs. Offered on demand.  
A course designed to provide additional background material in atomic and nuclear physics for high school teachers. Lecture and laboratory.
649. **Electronics for Teachers.** 5 hrs. Offered on demand.  
A course in basic theory of electronics for high school teachers. Lecture and laboratory.

### PHYSICAL SCIENCE

500. **Astronomy.** 3 hrs.  
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.  
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 the field.

**POLITICAL SCIENCE**

Professors Stewart, Perry

Associate Professors Choi, Colie

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

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

500-501-502-503-504. **Special Topics.** 3; 3; 3; 3; 3 hrs.

505. **International Organizations.** 3 hrs.

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

506. **International Relations.** 3 hrs.

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

507. **Governments and Politics of East Asia.** 3 hrs.

Political systems of China, Japan and other East Asian countries in the modern world.

508. **Politics of the Middle East.** 3 hrs.

Detailed examination of the institutions and politics of such states as United Arab Republic, Turkey, Iran, Iraq, Jordan, Syria and Israel.

509. **Comparative Governments: Parliamentary Democracies.** 3 hrs.

Origin, development, structure and current operations of the English, French, Swiss and other selected democratic governments; emphasis on the English system.

510. **Comparative Governments: Communist Dictatorships.** 3 hrs.

Detailed examination of the ideology, structure, and operations of the modern totalitarian state; emphasis on the Soviet Union.

525. **Early Political Theory.** 3 hrs.

Political thought and philosophy from Plato to the 17th century.

526. **Recent Political Theory.** 3 hrs.

Political thought and philosophy from the 17th century to the present time.



540. **Power in American Society.** 3 hrs.  
A study of the distribution of power in American society at the community and national levels with emphasis on the methods employed by social scientists to portray the community and national power structures.
600. **Trends in American Civilization.** 3 hrs.  
Political, economic, social, educational, and spiritual trends in American civilization. For teachers not interested in specialized courses.
601. **Reading in Political Science.** 2-3 hrs.  
Readings to meet the needs and interests of individual students.
603. **Problems in American National Government.** 3 hrs.  
Contemporary problems, procedures, and trends in American National Government. Recommended for teachers.
604. **American Political Ideas.** 3 hrs.  
Political ideas of representative American thinkers.
605. **International Law.** 3 hrs.  
Legal aspects of the relations between states.
606. **American Constitutional Law.** 3 hrs.  
Study of cases and literature of American constitutional law.
611. **Legislative Process and Legislative Procedure.** 3 hrs.  
Principles, procedures, and problems of statute lawmaking in the United States at all levels of government.
617. **National Administration.** 3 hrs.  
Organization and function of national administrative departments, boards and commissions in their relation to other branches of the government.
621. **Municipal Administration.** 3 hrs.  
Principles and methods of municipal administration in the United States.
624. **Administration of Justice.** 3 hrs.  
Organization of courts in the United States, trends in the reorganization of judicial machinery, the 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.

**675. Legislative Internship. 6 hrs.**

Intensive work experience in the West Virginia legislative processes coupled with a seminar involving directed reading and the preparation of a paper. This is a cooperative program with West Virginia University and the Office of Legislative Services with only selected students participating.

PR: One semester of graduate work and recommendation of departmental chairman.

**679. Problem Report. 1-3 hrs.****681. Thesis. 1-6 hrs.**

## PSYCHOLOGY

Professors Ward, Loemker, Wolf

Applicants for admission to graduate study in psychology must present a minimum of twelve hours in undergraduate psychology courses, including psychological statistics and laboratory experimental psychology. Scores on the Graduate Record Examination aptitude and advanced tests and letters of recommendation will usually be required prior to admission.

In addition to the general requirements of the graduate school, all students majoring in psychology must fulfill the following departmental requirements:

- a) Take or present transfer credit for Psychology 516, 560, 614, 623, 624, 690 and 691. A written comprehensive examination covering the content of these courses must be passed.
- b) Complete a research-based thesis (Psychology 681), including its defense in an oral examination before a departmental committee.

**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.



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518. **Psychology of Personnel.** 3 hrs. I, II.  
Psychological principles and methods applied to functions in person-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.  
PR: Twelve hours of psychology.
606. **Human Abilities: Development, 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.  
Instruction and practice in the use of individual intelligence tests, including the Stanford-Binet and Wechsler scales; evaluation of test results.  
PR: Twelve hours of psychology including Psychology 406-506 or its equivalent.
612. **Psychological Tests II.** 3 hrs. I.  
Instruction and practice in the use of tests of intelligence, aptitude, interest, and personality; evaluation of test results; selection of tests.  
PR: Twelve hours of psychology including Psychology 406-506 or its equivalent.
613. **Psychological Tests III.** 3 hrs.  
Instruction and practice in the administration, scoring, and interpretation of standard projective devices.  
PR: Psychology 408-508, 611, and 612.
614. **Psychology of Personality.** 3 hrs. I.  
The nature of personality structure and dynamics.  
PR: Twelve hours of psychology.
620. **Clinical Psychology I.** 3 hrs. II.  
Counseling of individuals presenting normal developmental problems. Techniques of appraisal. Preparation of written and oral staff reports.  
PR: Psychology 408-508, 611, 612, 613.
621. **Clinical Psychology II.** 3 hrs.  
Appraisal and counseling of individuals presenting abnormal adjustments.  
PR: Psychology 408-508, 611, 612, 613.

**623. Experimental Design. 3 hrs.**

An introduction to the design and interpretation of psychological research. Emphasis is upon tests of significance and assumptions governing their application.

PR: Twelve hours of psychology including statistics equivalent to Psychology 417-517.

**624. Correlation Analysis. 3 hrs.**

Correlation analysis in psychological research including theory and practice in test development, correlation and regression applications and factor analysis.

PR: Psychology 623 or consent of instructor.

**681. Thesis. 1-6 hrs. I, II, S.****690-691-692-693-694-695. Seminar. 1-3; 1-3; 1-3; 1-3; 1-3 hrs.**

Reports on current problems and literature in psychology and related fields; professional ethics.

**SAFETY EDUCATION**

Professor Fitch

**590. Problems and Practices in Traffic Safety and Driver Education. 3 hrs.****SOCIOLOGY AND ANTHROPOLOGY**

Professors Simpkins, Habel

Applicants for admission to graduate study in sociology must present: (1) a minimum of twelve hours of undergraduate sociology courses including three hours of statistics; (2) Graduate Record Examination combined score of at least 950.

Applicants for admission to candidacy must have satisfactorily completed fifteen hours of graduate sociology courses and have obtained approval of their thesis topic.

**Anthropology****505. Community Development. 3 hrs.**

Principles of applied anthropology in community development.

PR: 6 hrs. of anthropology or sociology.

**527. Ethnic Relations. 3 hrs.**

Analysis of cultural contact situations with emphasis on the role of Western European cultures.

PR: 6 hrs. of anthropology or permission of instructor.

**530. The American Indian. 3 hrs.**

Comparative analysis of Indian tribal cultures of the Americas.

PR: 6 hrs. of anthropology or permission of instructor.



555. **Appalachian Culture.** 3 hrs.  
Analysis of the culture of Appalachia.  
PR: 6 hrs. of anthropology or permission of instructor.
630. **Culture and Personality.** 3 hrs.  
Analysis of the relations between cultural, social, and personality systems.  
PR: 6 hrs. of anthropology or sociology; 6 hrs. of psychology; or permission of instructor.

### Sociology

501. **Population Problems.** 3 hrs. I.  
Study of population characteristics, growth and trends with emphasis on the social and cultural implications.  
PR: 6 hrs. of sociology.
503. **Social Research II.** 3 hrs. II.  
Intermediate social research methodology with emphasis on research design. 2 lec-2 lab. (Required of all M.A. candidates.)  
PR: Sociology 345.
508. **The Family.** 3 hrs. II.  
Theoretical analysis of the family as a primary social institution.  
PR: 6 hours of sociology.
512. **Small Groups.** 3 hrs. I.  
Study of the dynamics of small groups with emphasis on role theory.  
PR: Psychology or Sociology 302 or Sociology 310.
521. **Sociological Theory I.** I.  
The development of social thought and early sociological theory.  
PR: 6 hours of sociology or permission of instructor.
529. **Social Legislation.** 3 hrs. I  
Contemporary social welfare legislation and its social implications.  
PR: 6 hours of sociology or permission of instructor.
533. **Industrial Sociology.** 3 hrs. II.  
Study of the organization and structure of the workplant as a social system; the meaning and organization of work; managerial functions; management-labor relations; and human relations in industry.  
PR: Sociology 412.
535. **Juvenile Delinquency.** 3 hrs. I.  
Theories of delinquency causation and prevention; organization and functions of social agencies operating in the field.  
PR: Sociology 311.
536. **Aging in Western Culture.** 3 hrs. II.  
Study of the problems associated with maturity, retirement, and old age in contemporary industrial societies.  
PR: 6 hours of sociology or permission of instructor.

539. **Social Stratification.** 3 hrs. I, S.  
Analysis of various theories of stratification, with emphasis on the American class system.  
PR: 6 hours of sociology or permission of instructor.
540. **Metropolitan Communities.** 3 hrs. II, S.  
Sociology of metropolitan communities.  
PR: Sociology 200, Sociology 332.
545. **Social Statistics II.** 3 hrs. II.  
Intermediate level statistical analysis, including analysis of variance and covariance. 2 lec-2 lab.  
PR: Sociology 345.
550. **Sociology of Religion.** 3 hrs.  
An investigation into the nature of religion as a social phenomenon.  
PR: Six hours of sociology.
601. **Sociological Theory II.** 3 hrs. II.  
Contemporary sociological theories and their relation to research in human behavior. (Required of all M.A. candidates.)  
PR: Sociology 521.
602. **Contemporary Social Change.** 3 hrs.  
Theories of social change and their uses in analyzing social change of today.  
PR: 12 hours of sociology or permission of instructor.
611. **Social Pathology.** 3 hrs. II.  
Seminar in social maladjustment and disorganization and their consequences.  
PR: 12 hours of sociology or permission of instructor.
612. **Social Movement.** 3 hrs.  
Seminar in social movements and other collective phenomena with analysis of selected examples.  
PR: 12 hours of sociology or permission of instructor.
620. **Criminology.** 3 hrs. I.  
Seminar in crime and delinquency.  
PR: 12 hours of sociology or permission of instructor.
633. **Formal Organization.** 3 hrs. I.  
Seminar in formal organization with special attention given to bureaucratic organization.  
PR: 12 hours of sociology or permission of instructor.
668. **Seminar.** 1-3 hrs. I, II, S.  
Topics vary from semester to semester.  
PR: 12 hours of sociology or permission of instructor.
679. **Problem Report.** 1-3 hrs. I, II, S.  
The preparation of a written report on a research problem or field study in sociology.  
PR: Departmental permission.



681. **Thesis.** 1-6 hrs. I, II, S.

Individual research in a selected field of sociology under the direction of a member of the department. (Required of all M.A. candidates.)

PR: Admission to candidacy and staff approval of topic.

## **SPEECH**

Professors Harbold, Buell, Dedmon, Hoak, Hope, Olson, Ranson

Associate Professors Garrett, Novak, Page,

Students seeking a graduate degree in the Department of Speech may select a major program which emphasizes a broad background in general speech or a specialized program in speech pathology and audiology. Before being fully admitted for either program a student must have completed a minimum of 18 hours of appropriate undergraduate work in speech. Students lacking such undergraduate preparation may receive provisional admission which permits them to enroll for graduate classes while completing the undergraduate prerequisites.

Each departmental major will have a graduate committee consisting of his adviser, the chairman of the department and other staff members.

A written comprehensive examination is required; in addition, an oral comprehensive examination may be required. All members of a candidate's committee will grade (pass/fail) the examination(s). A unanimous pass is required.

In addition to the comprehensive examination(s), a candidate who writes a thesis will be required to pass an oral examination on the thesis. A unanimous pass is required.

All graduate students in speech will take the course Speech 601: Problems and Methods in Speech Research. Special provisions of each of the programs of emphasis are:

### **MAJOR IN SPEECH**

Students choosing a general speech program may take a broad selection of courses in all departmental fields or may choose to emphasize work in public address, radio-television, or theatre. He must take one course in each of the above areas plus one graduate course in speech pathology and audiology.

### **MAJOR IN SPEECH PATHOLOGY AND AUDIOLOGY**

Majors in speech pathology and audiology will follow a prescribed program leading to eligibility for certification by the American Speech and Hearing Association.

Students without the minimum of 30 semester hours of undergraduate coursework in speech pathology, audiology, psychology and related areas, which are specified as a part of certification requirements, should plan to earn the additional credits during their graduate enrollment.

503. **Play Direction.** 3 hrs. I.  
Primarily for those who will produce plays in schools, churches, and communities.  
PR: Speech 210, 312 and 313.
507. **Persuasion.** 3 hrs.  
A study of persuasive methods with special attention to the techniques of well-known contemporary speakers.  
PR: Five hours of public address.
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. **Communication Disorders of School Children.** 3 hrs.  
A survey of the causes, symptoms, and treatment of communication disorders encountered in the classroom. Not open to speech pathology majors.
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.  
PR: Speech 231 or 332 or 431 or 531.
540. **Playwriting.** 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.
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.  
PR: Speech 312 and Speech 313.



550. **The Direction of Speech Activities.** 3 hrs.  
For those responsible for extra-curricular speech: debate, extempore speaking, oral reading, discussion, oratory.  
PR: Fifteen hours of speech.
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.  
PR: Five hours of public address.
620. **Seminar on Voice Disorders.** 3 hrs.  
Detailed evaluation of theories of voice production and voice disorders; critical analysis of research literature; individual projects.
621. **Seminar on Cleft Palate.** 3 hrs.  
Intensive study of communication problems and treatment associated with the cleft palate; critical analysis of research literature; individual projects.
622. **Seminar on Articulation.** 3 hrs.  
Intensive study of characteristics of speech sounds and their production; critical analysis of research literature; individual projects.
623. **Seminar on Stuttering.** 3 hrs.  
Detailed evaluation of theories of stuttering and relevant therapies; critical analysis of research literature; individual projects.
624. **Seminar on Cerebral Palsy.** 3 hrs.  
Intensive study of neuro-muscular diseases and related communication disorders; critical analysis of research literature; individual projects.
625. **Seminar on Aphasia.** 3 hrs.  
Intensive study on language disorders in children and adults; critical analysis of research literature; individual projects.
626. **Seminar on Communication Science.** 3 hrs.  
Intensive study of physical, physiologic, and perceptual properties of speech signals; instrumentation; critical analysis of research literature; individual projects.
631. **Scenery and Graphic Arts for Television.** 3 hrs.  
Basic principles with field work in the studios of area television stations.
634. **Seminar in Radio and Television.** 1-3 hrs.  
Problems in the broadcast field on varied subjects which concern the industry.
649. **Seminar in Theatre.** 3 hrs.  
Seminar in problems of dramatic production.  
PR: Speech 403 or 503.

650. **Leaders and Movement 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.  
PR: 18 hours of speech.
656. **Seminar in Public Address and Speech Education.** 1-3 hrs.  
PR: 18 hours of speech.
660. **Seminar on Audiology.** 3 hrs.  
Detailed evaluation of theories of hearing, hearing measurement, and methods of auditory rehabilitation; critical analysis of research literature; individual projects.
661. **Clinical Audiology.** 3 hrs.  
Analysis of specialized tests for hearing evaluations; hearing aid selection; clinical activities.
670. **Clinical Practicum in Speech Pathology.** 3 hrs.  
Supervised clinical training in the Marshall University Speech and Hearing Clinic and in associated rehabilitation facilities.
671. **Clinical Practicum in Speech Pathology.** 3 hrs.  
Supervised clinical training in the Marshall University Speech and Hearing Clinic and in associated rehabilitation facilities.
679. **Problem Report.** 1-3 hrs.  
PR: 18 hours of speech.
681. **Thesis.** 1-6 hrs.



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