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MARSHALL UNIVERSITY
MARTINSBURG, W. VA. 26155

MARSHALL UNIVERSITY



Graduate Catalog

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

Admission

Director of Admissions

Alumni Affairs

Director of Alumni Affairs

Business Matters, Expenses

Vice President for Business Affairs

Employment, Placement

Director of Career Planning and Placement

Graduate Study

Dean of the Graduate School

Student Affairs

Vice President for Student Affairs

Student Housing

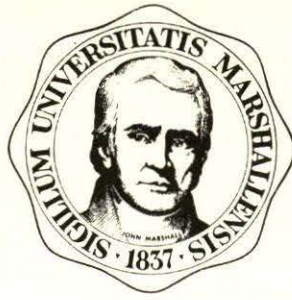
Director of Housing

Scholarships and Loans

Director of Student Financial Assistance

Transcripts, Records

Office of the Registrar



MARSHALL UNIVERSITY

CATALOG OF THE GRADUATE SCHOOL

1974 - 75

HUNTINGTON, WEST VIRGINIA

25701

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Number 1

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Marshall University

Huntington, West Virginia 25701

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

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Calendar

SUMMER SESSION 1974 CALENDAR

First Summer Term

June 10, Monday, 8:00-3:00 p.m. Regular Registration
June 11, Tuesday, 8:00 a.m. Classes Begin
June 11, Tuesday, 4:00 p.m. Registration Closes for First Term
Last Day to Add Classes
June 13, Thursday Application for July Graduation
Due in Academic Dean's Office
June 15, Saturday Graduate Record Examinations
June 19, Wednesday Final Draft of Graduate Thesis Submitted to Adviser
June 22-28 Oral Examinations for the Master's Degree
June 29, Saturday, 8:00-1:00 Written Examination for Master's Degree
July 3, Wednesday Approved Thesis Due in Graduate School
July 4, Thursday Independence Day - University Closed
July 5, Friday Last Day to Drop Classes with W Grade
July 12, Friday First Summer Term Ends
July 13, Saturday Admission Test for Graduate Study in Business
July 15, Monday, 4:00 p.m. Final Grades Due

Second Summer Term

July 15, Monday, 8:00-3:00 Regular Registration
July 16, Tuesday Classes Begin
July 16, Tuesday, 4:00 p.m. Registration Closes for Second Term
Last Day to Add Classes
July 18, Thursday Application for August Graduation Due
in Academic Dean's Office
July 20, Saturday National Teacher Examinations
July 24, Wednesday Final Draft of Graduate Thesis Submitted to Adviser
July 27-August 2 Oral Examinations for Master's Degree
August 3, Saturday, 8:00-1:00 Written Examination for Master's Degree
August 7, Wednesday Approved Thesis Due in Graduate School
August 9, Friday Last Day to Drop Classes with W Grade
August 16, Friday Second Summer Term Ends
August 19, Monday, 9:00 a.m. Final Grades Due

CALENDAR FOR FIRST SEMESTER 1974-75

August 5, Monday, 4:30 p.m. Final Payment Date for Fall Semester
Advance Registered Students
August 26-28 Orientation for New Students
August 27, Tuesday, 8:00-3:00 p.m. Regular Registration
6:30-8:30 p.m. Evening Registration
August 28, Wednesday, 8:00-3:00 p.m. Registration Continues
August 29, Thursday, 8:00 a.m. Classes Begin
September 2, Monday Labor Day Holiday - University Closed
September 3, Tuesday Late Registration Begins
Add-Drop Period Begins

September 5, Thursday	Application for December Graduation
	Due in Academic Dean's Office
September 5, Thursday, 7:00 p.m.	Late Registration Closes
	Last Day to Add Classes
October 17, Thursday	Mid-Semester
October 18, Friday	Mid-Semester Reports Due for Freshmen
October 19, Saturday	Homecoming
October 26, Saturday	Graduate Record Examinations
October 28-November 1	Advance Registration for Second Semester
October 29, Tuesday	Final Draft of Graduate Thesis Submitted to Adviser
November 2, Saturday	Admissions Test for Graduate Study in Business
November 9, Saturday	National Teacher Examinations
November 11-20	Oral Examinations for Master's Degree
November 23, Saturday, 8:00-1:00	Written Examinations for Master's Degree
November 27, Wednesday	Approved Thesis Due in Graduate School
November 27, Classes End 12:00 Noon	Thanksgiving Recess Begins
November 28, Thursday, Thanksgiving	University Holiday - University Closed
November 29, Friday	University Holiday - University Closed
December 2, Monday, 8:00 a.m.	Classes Resume
December 2, Monday	Last Day to Drop Courses With W Grade
December 6, Friday, 4:30 p.m.	Final Payment Date for Second Semester
	Advance Registered Students
December 9, Monday	Last Class Day
December 10, 12, 13, 16, and 17	Examination Days
December 11, 14, and 15	Study Days
December 14, Saturday	Graduate Record Examinations
December 17, Tuesday	First Semester Closes
December 18, Wednesday, 4:00 p.m.	Final Grades Due in Registrar's Office
December 24, Tuesday	University Holiday - University Closed
December 25, Wednesday, Christmas	University Holiday - University Closed
December 26, Thursday	University Holiday - University Closed
January 1, Wednesday, New Year's Day	University Holiday - University Closed

January 7, Tuesday, 8:00 a.m. - 3:00 p.m.	Regular Registration
6:30 - 8:30 p.m.	Evening Registration
January 8, Wednesday, 8:00 a.m. - 3:00 p.m.	Registration Continues
January 9, Thursday, 8:00 a.m.	Classes Begin
January 13, Monday	Late Registration Begins
	Add-Drop Period Begins
January 15, Wednesday	Application for May Graduation Due in Academic Dean's Office
January 15, Wednesday, 7:00 p.m.	Late Registration Closes
	Last Day to Add Classes
January 18, Saturday	Graduate Record Examinations
January 25, Saturday	National Teacher Examinations
January 25, Saturday	Admissions Test for Graduate Study in Business
February 17, Monday, Washington's Birthday	University Holiday-University Closed
February 28, Friday	Mid-Semester
March 3, Monday	Mid-Semester Reports Due for Freshmen
March 22, Saturday	Admissions Test for Graduate Study in Business

March 24 through March 31 Spring Vacation
 March 31, Monday University Holiday - University Closed
 April 1, Tuesday, 8:00 a.m. Classes Resume
 April 1, Tuesday Final Draft of Graduate Thesis Submitted to Adviser
 April 1-4 Advance Registration for Summer
 April 5, Saturday National Teacher Examinations
 April 7-11 Advance Registration for Fall
 April 7-16 Oral Examinations for Master's Degree
 April 9, Wednesday Last Day for May Degree Candidates to
 Drop Classes with W Grade
 April 16, Wednesday Last Day to Drop Classes With W Grade
 April 19, Saturday, 8 a.m.-1 p.m. Written Examination for Master's Degree
 April 21, Monday Approved Thesis Due in Graduate School
 April 25, Friday, 9:00 a.m. All May Degree Candidates' Grades Due
 in Registrar's Office
 April 26, Saturday Graduate Record Examinations
 April 30, Wednesday Last Class Day
 May 2, 5, 7, 8, and 9 Examination Days
 May 1, 3, 4, and 6 Study Days
 May 11, Sunday Commencement Day
 May 12, Monday, 4:00 p.m. Final Grades Due in Registrar's Office
 May 26, Monday, Memorial Day University Holiday - University Closed

SUMMER SESSION 1975 CALENDAR

First Summer Term

June 9, Monday, 8:00-3:00 Regular Registration
 June 10, Tuesday, 8:00 a.m. Classes Begin
 June 10, Tuesday, 4:00 p.m. Registration Closes for First Term
 Last Day to Add Classes
 June 12, Thursday Application for July Graduation Due
 in Academic Dean's Office
 June 18, Wednesday Final Draft of Graduate Thesis Submitted to Adviser
 June 21, Saturday Graduate Record Examinations
 June 21-27 Oral Examinations for the Master's Degree
 June 28, Saturday, 8:00-1:00 Written Examination for Master's Degree
 July 2, Wednesday Approved Thesis Due in Graduate School
 July 3, Thursday Last Day to Drop Classes With W Grade
 July 4, Friday Independence Day Holiday - University Closed
 July 11, Friday First Summer Term Ends
 July 12, Saturday Admission Test for Graduate Study in Business
 July 14, Monday, 4:00 p.m. Final Grades Due

Second Summer Term

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August 6, WednesdayApproved Thesis Due in Graduate School
August 8, FridayLast Day to Drop Classes With W Grade
August 15, FridaySecond Summer Term Ends
August 18, Monday, 9:00 a.m.Final Grades Due

MARSHALL UNIVERSITY OFFICERS OF ADMINISTRATION

President	John G. Barker, B.S., M.S., Ph.D.
President Emeritus	Stewart Harold Smith, B.S., M.A., Ph.D.
Assistant to the President	Edwin Vinson, B.A., B.F.T.
Vice President for Academic Affairs	William K. Easley, B.S., M.S., Ph.D.
Assistant to the Vice President	Ernest W. Cole, B.S., M.A.
Dean of College of Arts and Sciences	George J. Harbold, B.A., M.A., Ph.D.
Associate Dean	Charles D. Corman, A.B., M.A., Ph.D.
Assistant Dean	Warren G. Lutz, A.B., M.A.
Dean of College of Education	Robert B. Hayes, A.B., Ed.M., Ed.D.
Assistant Dean	William S. Deel, B.A., M.S., Ed.D.
Dean of College of Business and Applied Science	L. Aubrey Drewry, Jr., B.S., M.A., Ph.D.
Assistant Dean	Sara Anderson, B.S., M.S., Ed.D.
Dean of Graduate School	Herman N. Weill, B.A., B. Ed., M.A., Ph.D.
Director of Libraries	Kenneth T. Slack, A.B., B.S., M.A., Ed.D.
General Manager of WMUL-TV	Terry M. Hollinger, Met. Engr., M.A.
Director of Computer Center	Karl C. Thomas, B.A.
Vice President for Business Affairs	Joseph C. Peters, B.S., M.B.A.
Director of Security	Donald L. Salyers
Division Director of Finance	Richard D. Vass, B.B.A.
Director of Personnel	Charles E. Evans
Director of Purchasing	Robert G. Bradley, B.S.
Supervisor of Accounting	Jeanne Childers, A.B.
Supervisor of Payroll	Roger A. Hesson, A.A., B.B.A.
Director of Physical Plant Operations	Joseph S. Soto, A.B., B.S., M.A.
Superintendent of Buildings and Grounds	C. Steve Szekely, B.S.
Manager of the Bookstore	Joseph L. Vance, B.B.A.
Vice President for Student Affairs	Richard G. Mund, B.A., M.A., Ph.D.
Assistant to the Vice President	Charles Quillin, A.B., Sc.M., Ph.D.
Dean of Students	Richard G. Fisher, A.B., M.A., Ph.D.
Assistant Dean of Students	Marvin E. Billups, B.S.
Assistant Dean of Students	Barbara G. Arnold, A.B., M.S.
Coordinator of Student Activities	Nancy P. Hindsley, A.B.
Coordinator of Artists Series	James A. Martin, A.B.
Registrar	Robert H. Eddins, B.S., M.S.
Director of Admissions	James W. Harless, B.S. Ed., M.A.
Director of Student Financial Aid	Dennis J. Montrella, A.A., B.S., M.A.
Director of Student Development Center and Health Service	Richard Waite, B.S., M.A., Ph.D.
Director of Placement	Reginald A. Spencer, B.B.A.
Director of Special Services Program	Robert Goodlett, A.B., M.A.
Director of University Housing	Warren S. Myers, A.B., M.A.
Director of University Relations	Donald K. Carson, B.A., Ph.D.
Director of Informational Services	C. T. Mitchell, A.B., M.A.J.
Director of Community Services	Paul H. Collins, A.B., M.A.
Director of Grants	Harold E. Neely, A.B., J.D., M.A., Ph.D.
Director of Alumni Affairs	Everett N. Roush, D.D.S.
Director of Athletics	Joseph H. McMullen, Sc.B., A.B., M.A.
Associate Director of Athletics	Dorothy Hicks, B.S., M.A., Ed.D.
Assistant Director of Athletics	Edward M. Starling, B.S.
Business Manager	James H. Hodges, Jr., B.B.A.
Sports Information Director	Samuel H. Stanley, A.B.
Director of Institutional Research	Homer Arhelger, A.B., M.A., Ed.D.

General Information

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 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, off-campus classes, lectures, musical programs, conferences, forums, and other campus and field activities.

HISTORY

Marshall University traces its origin to 1837, when residents of the community of Guyandotte and the farming country nearby decided their youngsters needed a school that would be in session more than three months a year.

Tradition has it that they met at the home of lawyer John Laidley, planned their school and named it Marshall Academy in honor of Laidley's friend, the late Chief Justice John Marshall.

At a spot called Maple Grove they chose one and one-quarter acres of land on which stood a small log building known as Mount Hebron Church. It had been the site of a three-month subscription school and remained that for another term. Eventually \$40 was paid for the site.

On March 30, 1838, the Virginia General Assembly formally incorporated Marshall Academy. Its first full term was conducted in 1838-39.

For decades the fledgling school faced serious problems, most of them financial. The Civil War forced it to close for several years, but in 1867 the West Virginia Legislature renewed its vitality by creating the State Normal School at Marshall College to train teachers. This eased Marshall's problems somewhat, but it wasn't until the tenure of President Lawrence J. Corbly from 1896 to 1915 that the college began its real growth. In 1907, enrollment exceeded 1,000.

Since then Marshall's expansion has generally been consistent and sometimes spectacular. Teachers' College was organized in 1920 and the first college degree was awarded in 1921. The College of Arts and Sciences was formed in 1924, and the Graduate School was organized in 1948. The College of Applied Science came into being in 1960; the School of Business was formed in 1969. These were merged into the College of Business and Applied Science in 1972.

Marshall became a full-fledged university in 1961. Today it has an alumni body of more than 23,000.

Since the formation of the West Virginia Board of Regents in 1969, Marshall's progress as an urban-oriented university has been given strong impetus. As a result of this support, and because of its own active leadership and its location in the busy Tri-State Area, Marshall is a university with unbounded prospects.

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 Nursing Education program is accredited by the National League for Nursing.

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 four divisions: College of Education, College of Arts and Sciences, College of Business and Applied Science, Graduate School.

COMPUTER CENTER

The Computer Center supports activities of the university administration, research, and student instructional programs. The primary equipment is a medium speed remote batch terminal supported by the remote IBM S/370 Model 165. In addition a limited capability for interactive problem solving through the use of the FOCAL programming language is available from several slow speed keyboard terminals at various campus locations.

JAMES E. MORROW LIBRARY

The James E. Morrow Library of Marshall University was built in 1929-31 as a combination library and classroom building. In 1966-69 the demands resulting from growth in enrollment and the increase in graduate work brought about an extensive remodeling and building program which provides an additional 74,652 square feet of space. This space was literally "wrapped around" the existing building. It increased the capacity to slightly over 100,000 gross square feet of assignable space, a total shelf capacity for 375,000 volumes and reader stations for 700 students. The reading areas are comfortable with carpeted floors, complete air conditioning, electrical heating and adequate lighting. The new building created is a handsome campus landmark of imposing Georgian design.

At this time the volume count of bound periodicals and cataloged monographs is more than 250,000 volumes. The holdings also include 300,000 government documents, and microforms in excess of 220,000 pieces.

On March 13, 1972, the James E. Morrow Library converted from a closed stack library to an open stack system. Now only government documents, West Virginiana, rare books and archives are in closed stacks. Future plans call for opening most of these areas to serious scholars.

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 Mhz seven days a week during the first and second semesters.

WMUL-TV

Operated by Marshall University and Associates Broadcasting, this non-commercial television station broadcasts educational, cultural, and entertaining programs on Channel 33. Studios are located on the main campus in the Communications Building and at Nitro, West Virginia.

MARSHALL ARTISTS SERIES, INC.

This non-profit corporation provides for the appearance of artists in the performing arts and lecture authorities. There are six divisions of activity within the Marshall Artists Series: Baxter Series, Mount Series, Forum Series, Convocation Series, Young Peoples Series, and Summer Series. Marshall University students with Activity Cards may attend all but the Young Peoples Series at no charge. Inquiries should be addressed to: Marshall Artists Series, Inc., Marshall University, Huntington, W. Va. 25701.

Academic Information

FACULTY-STUDENT ADVISORY PROGRAM

Each student admitted to a graduate degree program at Marshall University is normally assigned to a graduate faculty adviser. The adviser renders academic guidance by assisting in the preparation of 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 passing a subject taken 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 in the fall and spring semesters, and six semester hours in the two summer terms. Graduate assistants take a smaller load.

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

3. **FULL-TIME GRADUATE STUDENT DEFINED.** A student carrying at least nine semester hours in a regular semester, four semester hours in a single summer term.

4. **COURSES NUMBERED 500-599** are similar to certain 400 series courses and meet jointly with undergraduate 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. For superior performance. Four quality points are earned for each semester hour with a grade of A.
- B. For performance distinctly above the average in quality. Three quality points are earned for each semester hour with a grade of B.
- C. For performance that is of average quality. Two quality points are earned for each semester hour with a grade of C.
- D. 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.
- W. Withdrawn prior to the last week of classes or withdrawn passing during the last week of classes. Not considered in determining the quality point average. (See regulations on withdrawal.)
- WF. Withdrawn failing during the last week of classes. No quality points.
- I. An I grade (Incomplete) is given to students who do not complete course requirements because of illness or some other valid reason. The student has the responsibility of completing the work satisfactorily, and if this is done the final grade may be any one of the four passing marks. If a deficiency requested by I is not made up within a calendar year, or if the makeup work is unsatisfactory, the

grade becomes an F. I grade is not considered in determining the quality point average.

QUALITY POINTS REQUIRED FOR GRADUATION

The quality point average is computed on the course work applicable to the student's graduate degree program, with the exception of courses with grades of W, WP or I.

An average of B (3.0) in the applicable graduate courses is required for a master's degree.

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

REGULATIONS ON WITHDRAWAL FROM COURSES OR COMPLETE WITHDRAWAL FROM THE UNIVERSITY

Dropping of Courses:

Dropping of classes during the Schedule Adjustment Period is described in the Schedule of Courses Bulletin published each semester by the Office of the Registrar. Dropping of classes after the Schedule Adjustment Period is accomplished by reporting to the academic dean's office and securing a drop form. It is then the responsibility of the dean to notify the Office of the Registrar who then assumes responsibility for notifying all faculty concerned of a student's dropping of a class. The regulations concerning the grade a student receives are defined below.

Official Withdrawal From the University:

A student desiring to withdraw from the University must contact the "Student Development Center" (Counseling Office). The Office of Student Development will conduct the exit interview and inform the student of the necessary administrative offices that must be cleared prior to complete withdrawal from the University. Application for withdrawal from the University must be made in person or by mail. Application for withdrawal by telephone will be accepted when followed by a letter. At the time of withdrawal from the University, the student relinquishes unused meal book tickets, activity card and student I.D. Card. The Finance Office will determine any financial refunds due to the student which will be transmitted by check. The student's I.D. Card will be deposited in the Office of the Registrar. If the student decides to attend a subsequent semester or summer term, the I.D. Card may be picked up by the student one week prior to regular registration. A student who is withdrawing by mail should include the above mentioned items with the request. In all cases of withdrawal from the University or from courses, the instructors will report grades as follows:

1. Students dropping one or more courses or completely withdrawing from the University before the final week of classes; dropping or withdrawing passing during the final week of classes will receive a grade of "W". Not considered in determining quality point average.
2. Students dropping one or more courses or completely withdrawing from the University during the final week of classes will receive a grade of "WF" if failing. No quality points.
3. Dropping one or more courses or officially withdrawing from the University during the final week of classes and 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. Dropping classes and/or complete withdrawal during

this period will be permitted only through personal conference with the student's academic dean. Grades reported for drops and withdrawals during this period are defined in paragraph 1.

4. Men and women called to active duty in the armed services of the United States of America shall be granted full refund of fees, but no credit, if the call comes before the end of the first three-fourths of the semester or term, and full credit, but no refund of fees shall be granted 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 departure to military service. The term "called to active duty" is herein defined as being drafted through the Selective Service program or being called to active duty as the result of the federal activation of a total reserve component or National Guard Unit of which the student is a bonafide member. Such reserve components and Guard Units are defined as company strength and above. The final grades, both passing and failing, for three-fourths of a semester or more 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 a grade of F at the end of the semester or summer term.

ABSENCES 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 of F. If the absence is the result of illness or some other valid reason beyond the control of the student the grade of I is reported, and the student may, upon application, take the examination at a later date. (See "Incomplete" under Grades and Quality Points.)

ATTENDANCE POLICY

A student should recognize that one of the most vital aspects of a college experience is attendance and participation in classes and that the value of this academic experience cannot be fully measured by testing procedures alone.

The members of the student body are considered sufficiently mature to appreciate the necessity of regular attendance, to accept this personal responsibility, and to demonstrate the kind of self-discipline essential for such performances.

It is the responsibility of each individual instructor to evaluate the importance of student class attendance. Accordingly, each instructor prepares at the beginning of each semester a written statement setting forth his policy for consideration of unexcused absences, make-up examinations, and related matters, which will be in force for the semester. The statement is filed with the chairman of the department and a statement of policy on attendance appropriate to each class is read at the first class meeting.

In those cases where marked violations of class attendance policy occur, the instructor may notify the dean so that every effort can be made to find and counsel the student whose academic prospects are being jeopardized by non-attendance.

Absences such as those resulting from illness, death in the family, or institutional activities (those approved by the academic deans, such as debate, artistic performances and athletics) are to be excused when a student reports and

verifies them to the instructor. For such excused absences, the students should not be penalized.

ACADEMIC DISHONESTY

Marshall University considers cheating to be a serious breach of academic discipline and absolutely condemns this and any form of academic dishonesty, on or off campus, for whatever purpose it may be pursued.

Cheating shall be defined generally as any act of a dishonorable nature which gives the students engaged in it an unfair advantage over others engaged in the same or similar course of study and which, if known to the classroom instructor in such course of study, would be prohibited. Such cheating shall include, but is not limited to, the following: securing or giving unfair assistance during examinations or required work of any type; the improper use of books, notes, or other sources of information; submitting as one's own work or creation any oral, graphic, or written material wholly or in part created by another; securing all or any part of assignments or examinations in advance of their submission to the class by the instructor; altering of any grade or other academic record; and any other type of misconduct or activity which manifests dishonesty or unfairness in academic work.

The university fully expects its students to conduct themselves in a dignified and honorable manner as mature members of the academic community, and assumes that individually and collectively they will act to discourage acts of cheating. The university also expects complete and absolute cooperation among administrators, faculty, staff and students in the prevention of cheating, in detecting those who cheat, and in providing appropriate punishment for offenders. It shall be the special responsibility of the individual classroom instructor to establish with each class learning and testing conditions which minimize possibilities of cheating, to make every reasonable effort to detect those who cheat, to take appropriate action against such persons, and to prevent repetitions of such academic dishonesty.

Since each classroom instructor may modify the general definition of cheating to fit the immediate academic needs of a particular class, it shall be the instructor's responsibility where this is done to make clear to students the details of any such departure from the general definition.

Major responsibility for punishment of cheating offenders shall lie with the individual instructor in whose classroom or course of study the offense occurred. Such punishment shall be based upon the severity of the offense, circumstances surrounding the act, causes for the behavior, whether this is a repetition of a previous offense, and such other factors as the instructor may consider pertinent, and may range from a reprimand to failure in the course with or without a remanding of the offender to other university officials for additional action. Where the offense is particularly flagrant and/or it is known to the instructor that the person has been guilty of one or more such offenses in the past, the instructor shall communicate the details of the offense and the action taken to the appropriate university officials with recommendation for additional punishment or action. If the cheating offense involves a violation of any local, State, or National law, the instructor shall communicate the details of the offense and any action taken, without delay, to the appropriate university official for additional action. Beyond the action taken by the individual classroom instructor, university officials may place the student on social and/or academic probation, place a written account of the offense in the student's permanent record file, expel the student from the university, remand the student to proper law enforcement officials for legal action, or take such other steps as may seem appropriate and reasonable.

A student charged with a cheating offense may appeal from the action of the classroom instructor to a Review Committee consisting of the Vice President for Student Affairs, the Dean of the College in which the student is enrolled, the

Chief Justice of the Student Court, and two faculty members appointed for each individual case by the University Council. This committee may make such additional investigation as it may desire, shall hear all evidence in the case, and shall affirm or reverse, in whole or in part, the action of the instructor. The Review Committee shall be a special sub-committee of the Student Conduct and Welfare Committee, and shall deposit a record of its actions with the chairman of that committee.

A student may appeal from the action of the Review Committee to the President of the University, who may affirm or reverse, in whole or in part, the action of the Review Committee.

Appeals by the student to the Review Committee or to the President shall be made within thirty days of the time disciplinary action is taken or the appeal decision has been handed down; and as a part of such appeals the student may seek such legal or other assistance as he may deem advisable.

A copy of the approved cheating regulations shall be carried in all college and university catalogs, in any student handbook distributed to incoming students, in any freshman orientation issues of the student newspaper, and in any literature generally distributed as part of orientation classes. It shall be the responsibility of each classroom instructor each semester to either remind classes of these regulations or to indicate where they may be read, indicating at this time any variations which will be followed by that instructor's classes with respect to such regulations.

In all phases of enforcement of the cheating regulations due care and diligence shall be taken by instructors and others concerned to see that charges are made only upon sufficient knowledge and that each student so charged is treated with fairness and consideration.

AUDIT 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. Adult 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.

It is not possible to change a registration from credit to audit or audit to credit after the close of the schedule adjustment period at the beginning of a semester or summer term.

TRANSCRIPTS

Every student is entitled to one free official transcript of his or her 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 at the close of a semester or summer term. At other times the service is approximately 24 hours from receipt of the request.

Students who default in the payment of any university financial obligation forfeit their right to claim a transcript.

An application for a transcript of credit earned 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.

Transcript requests must be in writing, no phone requests accepted.

ACADEMIC PUBLICATIONS OF THE UNIVERSITY

The university issues seven bulletins annually: the General Undergraduate Catalog, the Catalog of the Graduate School, admission bulletin, the schedule of courses for each semester, the summer session bulletin and Research Bulletin. Other special publications are issued from time to time.

EVENING SCHOOL

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

Classes are provided for those not interested in college credit but who wish to meet for one or more sessions to discuss some topic of vital interest to them in their daily work. A class of 15 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 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.

OFFICE OF COMMUNITY SERVICES

Marshall University regards adult-oriented programs as an extremely important dimension of higher education. As a state-supported institution it recognizes an obligation to provide for the people of West Virginia certain community services in addition to the regular academic programs.

Continuing Education Units

Marshall University, through the Office of Community Services, is participating in a non-college credit type of "Continuing Education Unit" program designed to give recognition to persons continuing their education through certain types of short courses, seminars, conferences and workshops. The program is designed for industrial, business, educational, civic, professional, and other groups.

One Continuing Education Unit is generally defined as: Ten contact hours of participation in an organized educational experience under responsible sponsorship, capable direction and qualified instruction.

Continuing Education Units may be awarded as whole units or as tenths of units. For example, a fifteen contact-hour short course would produce 1.5 C.E.U.'s, a ten contact-hour offering 1.0 C.E.U., and a five contact-hour offering 0.5 C.E.U.

A permanent record will be maintained by the University of all C.E.U.'s earned.

Speakers Bureau

The Speakers Bureau is a coordinating agency designed to centralize the speaker resources of the many departments of the University, its administrative staff and faculty, and to facilitate the scheduling of speaking engagements by members of the University community.

Off-Campus Classes

Off-campus classes are offered in various parts of the state for teachers and others who find it impossible to attend classes on the Huntington campus. The quality of instruction in off-campus classes is on the same high level as that of regularly taught classes on campus.

Fees & Expenses

GENERAL INSTRUCTIONS

1. All University fees are subject to change without prior notice. The fees listed in this catalog are those in effect at the time of publication. The rates are subject to change by the University and its governing board.
2. Enrollment fees are payable on or before the date of registration. Presently enrolled students who advance register (pre-register) for a semester or summer term will receive an invoice for enrollment fees. Payment of the invoice must be made to the University's Cashier on the due date established by the Office of Business Affairs and the Registrar. The due date will be approximately three weeks prior to the date of regular registration for any given semester or summer term. Pre-registered students who do not pay their bill on the established due date will have their class schedules cancelled by the Registrar. Students who register during the regular registration periods and any reregistering pre-registered students will pay enrollment fees on the date of regular registration. First-time enrollees and transfer students will pay tuition on their assigned registration day. All late registrants are subject to the late registration fee of \$10.00. A student who fails to pay his enrollment fees, room and board when due will be subject to administrative withdrawal from the university.
3. No financial credit shall be extended for enrollment fees. The University operates on a cash basis with payments being collected in advance. However, a student's dormitory fee (room and board) may be divided into two equal nine week installments payable in accordance with dates established by the Director of University Housing. For due dates and amounts of payments, see the section on Dormitory Fees on page 21.
4. Students who are recipients of financial aid through the University's loan or scholarship program, the University's Department of Intercollegiate Athletics, a private loan or scholarship or any governmental agency must complete arrangements for payment through the Director of Student Financial Assistance (Room 124, Old Main Building) and the University Cashier (Room 103, Old Main Building). The arrangements must be complete on or before the student's date of registration.
5. Faculty, staff and graduate assistants, who are eligible for enrollment fee waivers under the University's fee remission plan, must complete arrangements, for the remission of fees, with the University's Cashier on or before the registration date.
6. A student's registration is not complete until all fees are paid. The Cashier accepts cash, money orders, bank drafts and personal checks written for the exact amount of the obligation. All checks must be made payable to Marshall University.
7. A student's registration may be cancelled when payment is made by a check which is dishonored by the bank. A charge of \$3.00 will be made 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 Affairs may declare the fees unpaid and the registration cancelled. If the check was dishonored after the last day of regular registration, the late registration charge may be levied. In such case, the student may be reinstated upon redemption of the unpaid check, payment of the \$3.00 handling charge and payment of the late fee of \$10.00.
8. A student who owes a financial obligation to the University will not be permitted to enroll in subsequent semesters until the obligation is paid. The full payment of charges and balances outstanding on the books of the

University in account with a student will be considered prerequisite to the issuance of any certificate of attendance or credit, the awarding of a diploma or the conferring of a degree.

9. Students who withdraw properly and regularly from the institution will receive refunds of fees paid in accordance with the refunding policy which is stated in the schedule of refunds in this section of the catalog.
10. A student who is required to withdraw from the institution for disciplinary reasons may not receive refunds of fees paid.

ENROLLMENT FEES - MAIN CAMPUS

GRADUATE STUDENTS

FULL-TIME STUDENTS, NINE SEMESTER HOURS OR MORE

	Regular Semester		Summer Term (5 weeks)	
	Resident of W. Va.	Nonresident*	Resident W. Va.	Nonresident*
Tuition fee	\$ 40.00	\$205.00	\$ 40.00	\$205.00
Registration Fee	50.00	250.00	50.00	250.00
Student Activity- Services Fee**	69.00	69.00	21.20	21.20
Total Enrollment Fee	\$159.00	\$524.00	\$111.20	\$476.20

PART-TIME STUDENTS, LESS THAN NINE SEMESTER HOURS

Regular Semester and Summer Term (5 weeks)

West Virginia Resident				
Hours	Tuition	Registration	Student-Activity Services**	Total
1	\$ 9.00	\$ 5.00	\$21.20	\$ 35.20
2	18.00	10.00	21.20	49.20
3	27.00	15.00	21.20	63.20
4	36.00	20.00	21.20	77.20
5	45.00	25.00	21.20	91.20
6	54.00	30.00	21.20	105.20
7	63.00	35.00	21.20	119.20
8	72.00	40.00	21.20	133.20

Nonresident*				
Hours	Tuition	Registration	Student-Activity Services**	Total
1	\$ 22.00	\$ 28.00	\$21.20	\$ 71.20
2	44.00	56.00	21.20	121.20
3	66.00	84.00	21.20	171.20
4	88.00	112.00	21.20	221.20
5	110.00	140.00	21.20	271.20
6	132.00	168.00	21.20	321.20
7	154.00	196.00	21.20	371.20
8	176.00	224.00	21.20	421.20

*The Governing Board's policy statement defining the term nonresident for fee purposes is printed on page 27 of this catalog under the section entitled Policy Regarding Classification of Residents and Nonresidents For Admission and Fee Purposes.

**For distribution of the Student Activity-Services Fee, See the Table of Allocations

TABLE OF ALLOCATIONS
STUDENT ACTIVITY-SERVICES FEE

	Regular Semester		Summer Term (5 weeks)
	Full-time Students	Part-time Students	Full-time and Part-time Students
Artists Series	\$ 3.75		
Chief Justice	2.40		
Convocations and Forums	1.50	\$.50	\$.50
Debate	.25		
Et. Cetera	.10		
Health Service	8.00	8.00	8.00
Identification Card	.25	.25	.25
Intercollegiate Athletics (Men \$12.20; Women \$.65)	12.85		
Intramural Sports	.25		
Laboratory and Course Fee	5.00	3.65	3.65
Music Organizations	1.00		
Parthenon	3.00	.50	.50
Programming Student Activities	3.80	1.00	1.00
Student Government	1.00		
Student Legal Aid Program	.70	.20	.20
Student Relations Center	.25		
University Center Bonds	18.00	5.00	5.00
University Center Operations	6.15	2.00	2.00
University Theatre	.50	.10	.10
WMUL (Radio)	.25		
Total Student Activity-Services Fee	\$69.00	\$21.20	\$21.20

Note: With an additional payment of the applicable fee, part-time students who are enrolled in regular semesters may participate in any activity available to full-time students.

ENROLLMENT FEES - EXTENSION DIVISION

Tuition fee \$11.00 per semester hour; registration fee \$4.00 per semester hour; and a course fee of \$3.00, all payable on the date of registration.

DORMITORY FEES

Students assigned to a university residence hall are required to sign a contract to live and eat in the university facilities for the entire academic year.

Residence hall contracts are effective for the full academic year, fall and spring semester, and are binding on all students who sign a contract for this period.

Meals are available in University Dining Halls to students rooming off campus at the same rate as resident students. The food service plan is not valid during vacation periods. If it is necessary for the student to remain on campus during such periods, meals can be obtained 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.

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 deductions or refund is made in room charges for absences.

RATES

Regular Semester

	Room Rent	Board	Sales Tax	Total Per Semester*
Twin Towers				
Double occupancy	\$303.69	\$314.27	\$18.54	\$636.50
Laidley, Hodges, West, and South Halls				
Double occupancy	283.30	314.27	17.93	615.50
Private room	303.69	314.27	18.54	636.50

Summer Term - 5 weeks

Twin Towers				
Double occupancy	\$ 75.34	\$104.27	\$ 5.39	\$185.00**
Private room	94.76	104.27	5.97	205.00

Rates for Married Students Housing (84 units available)***

	Monthly
Efficiency Apartment	\$ 65.00
One Bedroom Apartment (Old Building)	85.00
One Bedroom Apartment (New Building)	115.00
Two Bedroom Apartment (New Building)	135.00

Note: Reservation for rooms in all dormitories and married students' housing, must be made through the Director of Housing, Room 126, Old Main Building.

ESTIMATE OF EXPENSES AND DATES PAYMENTS DUE

Estimate of Expenses

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

	West Virginia Resident	Nonresident
Enrollment Fee	\$159.00	\$ 524.00
Dormitory Fee	615.50	615.50
Books, supplies	65.00	65.00
Total	\$839.50	\$1,204.50

*The semester's fee of \$636.50 or \$615.50 may be paid in two equal installments of \$318.25 or \$307.75 respectively. Due dates for installments are August 1, and October 15th for the 1st regular semester and January 1 and March 1 for the 2nd regular semester. A \$25.00 reservation deposit must accompany applications. In addition to the reservation deposit a \$25.00 damage deposit is required. The damage deposit will be included with the 1st installment invoice which is mailed from the Office of the Director of University Housing.

**A \$25.00 reservation deposit must accompany application for a room. Balance of room rate due on notice from the Director of University Housing.

***A \$50.00 damage deposit required. All units are furnished and utility costs are included in the rental rate.

Note: Add \$21.00 for students residing in Twin Towers Dormitory or private rooms. Books and supplies may be purchased from the University Bookstore. Payment must be made on the purchase date.

DATES PAYMENTS DUE*

Enrollment Fee:

1. For students presently enrolled who advance register (pre-register) during:
 - a. the advance registration period of April 8-12, 1974, for the 1st regular semester beginning August 29, 1974. The final payment date is August 5, 1974.**
 - b. the advance registration period of October 28 - November 1, 1974, for the 2nd regular semester beginning January 9, 1975. The final payment date is December 6, 1974.**
2. For students presently enrolled who register during:
 - a. the regular registration period of August 27-28, 1974, for the 1st regular semester beginning August 29, 1974. The payment date is the student's date of registration August 27-28, 1974.***
 - b. The regular registration period of January 7-8, 1975, for the 2nd regular semester beginning January 9, 1975. The payment date is the student's date of registration January 7-8, 1975.***
3. For first-time enrollees and transfer students, the payment date of the enrollment fee is the student's date of registration.*

	First Regular Semester	Second Regular Semester
Dormitory Fee, Semester's fee payable in two equal installments		
1st installment	August 1, 1974	January 1, 1975****
2nd installment	October 15, 1974	March 1, 1975****

SPECIAL FEES

Cap and Gown Purchase (Keepsake cap and gown)	
Associate Degree	\$ 6.70
Baccalaureate Degree	6.70
Graduate Degree	13.34

Damage Deposit - married students apartments \$50.00

*Enrollment and Dormitory fees must be received by the University Cashier on or before the established due dates.

**An invoice for enrollment fees will be mailed to the permanent home address of a student who advance registers (pre-registers) during the advance registration periods. Payment of the invoice may be made by mail or over-the-counter to the University Cashier in Room 103, Old Main building. The payment must reach the Cashier by the close of business, 4:30 p.m. of the established due dates. Payments made after the due dates will not be accepted. The schedule of a pre-registered student who does not pay the enrollment fee on the established due date will be cancelled by the Office of the Registrar. In such case, the student will be required to reregister and pay fees during the regular registration period.

***Payment of the enrollment fee must be made over-the-counter to the University Cashier during the registration process. Invoices will not be mailed to students who register in the regular registrations.

****Invoices will be mailed from the Office of the Director of University Housing. Payment must be made on the established due dates.

Dormitory Rooms - Key Deposit	\$ 1.50
Dormitory Rooms - Key Replacement Charge	\$ 5.00
Dormitory Rooms - Damage Deposit	\$25.00
Dormitory Rooms - Reservation Deposit	\$25.00
Graduation Fees	
Associate Degree	\$ 5.00
Baccalaureate Degree	5.00
Graduate Degree	10.00

Note: Graduation fees are due and payable to the Cashier on notification from the dean of the students respective college or school.

Handling fee for checks returned by bank unpaid	\$ 3.00
Identification card replacement fee	\$ 5.00
Late Registration Fee	\$10.00

Note: Late registration fees are also applicable to payments of tuition accepted by the Cashier after the due date.

Library Charges:

1. Photographic Services
 - a. Xerox copies from 720 xerox copier - per exposure ... \$.10
 - b. Xerox copies from 3600 xerox copier - per exposure05
 - c. Facsimile copies from Microfilm - per copy10
 - d. Facsimile copies from Ultra microfilm - per copy25
2. Overdue books and materials
 - a. Books, pamphlets, and government documents two-week loan period, one renewal
 - 1-7 days no fine
 - 8th day overdue \$ 1.00
 - Each day thereafter10
 - Maximum fine 5.00
 - b. Reserve Material - Two-hour books and three-day books
 - First hour overdue \$ 1.00
 - Each hour thereafter10
 - Maximum fine 5.00
 - c. Payment for Lost Book
 - List price determined from books in print, plus a processing fee of \$10.00
 - d. Damaged Books
 - Whatever costs incurred in rebinding, replacing pages, etc. Books damaged beyond repair will be paid in accordance with the Lost Book Schedule

Nursery School enrollment fee (regular semester)	\$75.00
Summer Term	25.00

Orientation Fee, per session

New Students	\$ 8.00
Participating parents	3.00

Parking Fees	Inside	Outside
Per regular semester	\$25.00	\$15.00
Per Summer term (5 weeks)	7.50	5.00

Postage charge for mailing yearbook to graduating seniors	\$.75
Replacement charge for lost towel-Physical Ed. Dept.	\$ 2.00
Special fee for activity card for the use of the spouse of a full-time student (\$12.50 Athletics; \$5.00 Artists Series; \$1.50 convocations and forums) . .	\$ 19.00
Speech and Hearing Clinic charges:	
Speech and Hearing Evaluation	\$15.00
Hearing Evaluation	10.00
Audiometric and Short Increment Sensitivity Index Tests	10.00
Therapy (two 30 minute sessions per week)	25.00
Social Fee - Dormitories	\$ 5.00
Transcript Fees	
Each student receives the first transcript without charge. A charge of \$1.00 is made for each additional transcript.	

REMISSIONS OF TUITION AND REGISTRATION FEES

1. *Full-time Faculty*
Tuition and registration fees are waived for full-time members of faculties of any accredited college in West Virginia who register for graduate study at Marshall University. Accreditation shall be by the North Central Association of Colleges and Secondary Schools. The graduate courses enrolled for and the request for waiver of fees shall be approved by the Dean of Graduate School. THE STUDENT ACTIVITY-SERVICE FEE IS NOT WAIVED AND MUST BE PAID.
2. *Non-Academic Personnel*
Tuition and registration fees are waived for non-academic personnel at Marshall University and the state colleges who have been in the employ of the institution for 12 months or more at the time of application for admission. This waiver is not to exceed six semester hours, and the request for this work shall be approved by the applicant's immediate supervisor and the appropriate academic dean. THE STUDENT ACTIVITY-SERVICES FEE IS NOT WAIVED AND MUST BE PAID.
3. *Graduate and Teaching Assistants*
Tuition and registration fees are waived for graduate assistants, approved by the Dean of Graduate School. THE STUDENT ACTIVITY-SERVICES FEE IS NOT WAIVED AND MUST BE PAID.

The cost of the Student Activity-Service Fee applicable to the three foregoing enrollment plans may be obtained from the cashier or by the reference to Pages 20 and 21.

4. *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.

REFUND OF FEES

I. Withdrawal from the university

A. Enrollment fee: Tuition, Registration, Activity-Services

Students who withdraw regularly from the university may have a refund on enrollment fees in accordance with the following schedule:

	Main Campus and Extension Division
First Regular Semester	
1st period of refunds-August 27-September 9, 1974	90%
2nd period of refunds - September 10-September 23, 1974	70%
3rd period of refunds - September 24-October 7, 1974	50%
After October 7, 1974 - no refund	
Second Regular Semester	
1st period of refunds - January 7-January 20, 1975	90%
2nd period of refunds - January 21 - February 3, 1975	70%
3rd period of refunds - February 4 - February 17, 1975	50%
After February 17, 1975 - No refund	

All refunds are to be calculated from the first day of regular registration of a given semester or term. Every student who registers incurs a financial obligation. Refunds under \$1.00 in amount will not be made except on special request. Refund checks normally mailed within 15 days.

B. Dormitory Fee:

First Regular Semester: Cancellation of a room reservation prior to August 29, 1974, the first day of classes, will result in a refund of the dormitory fee less the \$25.00 reservation deposit. Cancellation of a room reservation during the first week of classes August 29-September 4, 1974, will result in the forfeiture of an amount equal to one-half of the semester's room rental plus one week's board. Cancellation of a room reservation after the first week of classes (after September 4, 1974) will result in the forfeiture of the total dormitory fee.

Second Regular Semester: Cancellation of room reservation prior to January 9, 1975, the first day of classes, will result in a refund of the dormitory fee less the \$25.00 reservation deposit. Cancellation of a room reservation during the first week of classes, January 9-15, 1975, will result in the forfeiture of an amount equal to one-half of the semester's room rental plus one week's board. Cancellation of a room reservation after the first week of classes (after January 15, 1975) will result in the forfeiture of the total dormitory fee.

Damage Deposit: The \$25.00 damage deposit, less any damage charges is refundable when the student severs all ties with the University Resident Halls.

All dormitory refunds must be approved by the Director of University Housing.

II. Withdrawal due to administrative action - enrollment fee only

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 Plans

Refunds when applicable 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 - enrollment fee only

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 Affairs.

VI. Late fees are nonrefundable.

**POLICY REGARDING CLASSIFICATION OF RESIDENTS
AND NONRESIDENTS FOR ADMISSION AND FEE PURPOSES**

The West Virginia Board of Regents at its meeting November 13, 1973, adopted the following regulations governing the classification of students as residents or nonresidents for admission and fee purposes at all institutions under its jurisdiction, effective January 1, 1974.

**Classification of Residents and Nonresidents
For Admission and Fee Purposes**

General- Students enrolling in a West Virginia public institution of higher education shall be classified as resident or nonresident for admission, tuition and fee purposes by the institutional officer designated by the President. The decision shall be based upon information furnished by the student and all other relevant information. The designated officer is authorized to require such written documents, affidavits, verifications, or other evidence as are deemed necessary to establish the domicile of a student. The burden of establishing residency for tuition and fee purposes is upon the student.

If there is a question as to residence, the matter must be brought to the attention of the designated officer and passed upon at least two weeks prior to registration and payment of tuition and fees. Any student found to have made a false or misleading statement concerning his residence shall be subject to disciplinary action and will be charged the nonresident fees for each session theretofore attended.

Residence Determined by Domicile - Domicile within the state means adoption of the state as a fixed permanent home and involves personal presence within the state with no intent on the part of the person to return to another state or country. West Virginia domicile may be established upon the completion of at least twelve months of continued residence within the state prior to the date of registration, provided that such twelve months residency is not primarily for the purpose of attendance at any institution of learning in West Virginia.

Establishment of West Virginia domicile with less than twelve months residence prior to the date of registration must be supported by proof of positive

and unequivocal action, such as, but not limited to, the purchase of a West Virginia home, full-time employment within the state, paying West Virginia property tax, filing West Virginia income tax returns, registering to vote in West Virginia and the actual exercise of such right, registering of motor vehicles in West Virginia, and possessing a valid West Virginia driver's license. Additional items of lesser importance include transferring or establishing local church membership, involvement in local community activities, affiliation with local social, civic, fraternal or service organizations, and various other acts which may give evidence of intent to remain indefinitely within the state. Proof of a number of these actions shall be considered only as evidence which may be used in determining whether or not a domicile has been established.

Minors - Minors are defined by the West Virginia Code (2-2-10) as persons under eighteen years of age. The residence of a minor shall follow that of the parents at all times, except in extremely rare cases where emancipation can be proved beyond question. The residence of the father, or the residence of the mother if the father is deceased, is the residence of the unmarried or unemancipated minor. If the father and the mother have separate places of residence, the minor takes the residence of the parent with whom he lives or to whom he has been assigned by court order. The parents of a minor will be considered residents of West Virginia if their domicile is within the state.

A minor student who is properly admitted to an institution as a resident student shall retain that classification as long as he enrolls each successive semester.

Emancipated Minor - An emancipated minor may be considered as an adult in determining residence, provided satisfactory evidence is presented that neither of his parents, if living, contribute to his support nor claim him as a dependent for federal or state income tax purposes.

In the event that the fact of emancipation is established, the emancipated minor assumes all of the responsibilities of an adult to establish residence for tuition and fee purposes. Proof must be provided that emancipation was not achieved principally for the purpose of establishing residence for attendance at an institution of higher education.

Students Eighteen Years of Age or Over - A student eighteen years of age or over may be classified as a resident if (1) the parents were domiciled in the state at the time the student reached majority and such student has not acquired a domicile in another state, or (2) while an adult the student has established a bona fide domicile in the State of West Virginia. Bona fide domicile in West Virginia means that the student must not be in the state primarily to attend an educational institution and he must be in the state for purposes other than to attempt to qualify for resident status.

Any nonresident student who reaches the age of eighteen years while a student at any educational institution in West Virginia does not by virtue of such fact alone attain residence in this state for admission or tuition and fee payment purposes.

A student who is properly classified as a resident at the time that he reaches the age of eighteen shall continue to be classified as a resident as long as he enrolls each successive semester and does not establish a domicile, or legal residence, in another state.

Change of Residence - An adult student who has been classified as an out-of-state resident and who seeks resident status in West Virginia must assume the burden of proving conclusively that he has established domicile in West Virginia with the intention of making his permanent home in this state. The intent to remain indefinitely in West Virginia is evidenced not only by a person's statements but also by his actions. The designated institutional officer in making his determination shall consider such actions as, but not limited to, the purchase of a West Virginia home, full-time employment within the state, paying West Virginia property tax, filing West Virginia income tax returns, registering to vote in West Virginia and the actual exercise of such right, registering of motor

vehicles in West Virginia and possessing a valid West Virginia driver's license. Additional items of lesser importance include transferring or establishing local church membership, involvement in local community activities, affiliation with local social, civic, fraternal or service organizations, and various other acts which may give evidence of intent to remain indefinitely within the state. Proof of a number of these actions shall be considered only as evidence which may be used in determining whether or not a domicile has been established. Factors militating against a change in residence classification may include such considerations as the fact that the student is not self-supporting, that he is carried as a dependent on his parents' federal or state income tax returns or his parents' health insurance policy, and that he customarily does not remain in the state when school is not in session.

Marriage - The residence of a married person is determined by the same rules of domicile which would apply if he or she were not married.

Military - An individual who is on active military service or an employee of the federal government may be classified as a resident for the purpose of payment of tuition and fees provided that he established a domicile in West Virginia prior to entrance into federal service, entered the federal service from West Virginia, and has at no time while in federal service claimed, or established a domicile in another state. Sworn statements attesting to these conditions may be required. The wife and dependent children of such individuals shall also be classified as residents of the State of West Virginia for tuition and fee purposes. Persons assigned to full-time active military service and residing in West Virginia may be classified as in-state residents for tuition and fee purposes after twelve months continuous location in the state.

Aliens - An alien in the United States on a resident visa, or who has filed a petition for naturalization in the naturalization court, and who has established a bona fide domicile in West Virginia may be eligible for resident classification, provided he is in the state for purposes other than to attempt to qualify for residency status as a student.

Appeal Process - The decisions of the designated institutional officer charged with the determination of residence classification may be appealed to the President of the institution. The President may establish such committees and procedures as he determines necessary for the processing of appeals. The decision of the President of the institution may be appealed in writing with supporting documentation to the West Virginia Board of Regents in accord with such procedures as may be prescribed from time to time by the Board.

Adopted: West Virginia Board of Regents, November 13, 1973

University Housing

Comfortable, healthful, and congenial living conditions contribute much to the success of university life and work. Comfortable living conditions aid students to do their best in their studies and contribute, through the experience of group life, to the building of character and personality. Hence the university is vitally concerned with student housing.

UNIVERSITY DORMITORIES

Six halls of residence are maintained on the campus by the institution, accommodating approximately 2,100 students. Individual halls accommodate from 180 to 500 occupants, largely in rooms for two persons, although there are a limited number of private rooms. The halls are planned to provide each student with the best possible living and learning conditions. Student Government experiences, social programs, recreational facilities and association with trained residence staff members provide opportunity for sound academic and social development. Most of the halls are relatively new and modern, located at points convenient to most parts of the campus.

ROOM APPLICATIONS AND RESERVATIONS

A university residence hall application is automatically sent to a student after his application for admission to the university has been accepted by the Office of Admissions. Room reservations should be made as early as possible. Contracts for dormitory accommodations are for room and board for the entire academic year. Applications must be made on an official form and must be accompanied by a room deposit of \$25.00 which will be applied to the first term's room and board payment. Room assignments are made without regard to a student's race, religion, or natural origin.

DORMITORY LIVING EXPENSES

Board and room costs in university dormitories range from approximately \$615.50 to \$636.50 per semester, depending on the facility -- a total of approximately \$1231.00 for the academic year. (These figures are tentative and are subject to change without prior notice.) Room rents for each hall are found under the title "Fees" in this catalog.

CANCELLATIONS AND REFUNDS

Failure to pay the balance of the first installment by the date due will result in an automatic cancellation of the room reservation. Cancellation of a room reservation during the first week of classes of any semester will result in the forfeiture of an amount equal to one-half of the semesters' room rental plus one weeks board. Cancellation of a room reservation after the first week of classes of any semester will result in the forfeiture of the entire amount of the prepaid quarterly fee. The \$25.00 room reservation deposit is non-refundable unless the student is declared academically ineligible to return to the university.

ROOM

Rooms are furnished with study desks, chairs, single beds, chests of drawers and study lamps. Linens, (Blankets, sheets, pillows, pillow cases) are provided by the student. Draperies are provided only in Twin Towers Dormitory.

BREAKAGE

In addition to room and board expenses, each resident is required to deposit a \$25.00 damage fee with the university. The fee will be carried forward from year to year and will be refunded only when the student severs all ties with the Residence Hall Program. Students 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.

REQUIRED HOUSING POLICIES

The West Virginia Board of Regents policy pertaining to University housing for freshmen and sophomores is that all full-time freshmen and sophomores must live in a Marshall University Residence Hall unless they reside with their parents and commute from that residence to the main campus. An exception to this policy is married students.

HOUSING FOR MARRIED STUDENTS

Housing for married students is provided in 84 furnished family dwelling units owned and operated by the university. The units include a wide variety of accommodations. The rents range from \$65.00 to \$135.00 per month. Applications may be procured from the university housing office. To be eligible for married-student housing, students must be enrolled for course work, as follows: graduate students, 9 hours; undergraduate students, 12 hours.

The university housing office maintains a list of privately-owned apartments and houses to assist married students and staff. This list contains information regarding rental rates, whether the apartment is furnished or unfurnished, approximate distance from the campus, etc. This is available during the regular office hours. Staff members are available during these same hours for consultation regarding specific listings as well as other related matters.

Student Life

THE HUMAN RELATIONS CENTER

The Human Relations Center coordinates student personnel services to special campus interest groups. The Human Relations Center offers special assistance to handicapped students, international students, Black students, and veterans. Administrative services to these groups include assistance in personal, academic, and institutional affairs. In addition to these services, the Human Relations Center provides a broad program of activities designed to educate students in general about the need for understanding and acceptance among persons of differing life styles, the goal of such efforts being to contribute to the educational growth of all students.

CENTER FOR STUDENT DEVELOPMENT AND HEALTH SERVICE

The Center for Student Development and Health Service offers four (4) basic programs of service to students. The Center is located on the first floor of Prichard Hall.

1. *The Counseling Office* - provides individual and small group counseling services, testing, vocational information, and referral services. These services can be utilized to assist in resolving problems of an educational, vocational or personal nature. The center is also involved in providing growth experiences to students to assist in building stronger relationships with others.
2. *Special Services-Upward Bound Offices* - is a federally funded program which provides counseling services, testing, vocational information, and qualify under federal economic guidelines. Interested students should apply directly to the Student Development Center for application and/or information. Upward Bound is a part of this program and provides educational and enrichment activities for area high school students who qualify.
3. *Career Planning and Placement Office* - provides a placement service to all students and alumni. This service includes face-to-face interviews with prospective employers, career counseling, part-time job placement, assistance in developing personal resumes and individual files for employment, a library of employer and occupational information, seminars in interviewing techniques, and job opportunity bulletins. Participation in employment interviews is limited to those who have completed placement registration.
4. *The Student Health Service* - provides students with outpatient medical care, and in cooperation with a local hospital, provides 24-hour emergency medical care to both full-time and part-time students. The Student Health Service is located on the first floor of Prichard Hall and is staffed by licensed medical personnel. The Student Health Service is financed by student fees. For additional information, students should contact the Student Health Service. The university's medical examination form completed by the family physician and submitted as part of the admission credentials *must* be on file in the Student Health Service.

HEALTH INSURANCE

The Marshall University Student Government offers a specially designed student accident and sickness group insurance plan providing coverage for hospital and medical expenses. The plan provides annual coverage, on-campus

and away from the university.

Information and application forms can be obtained from the Student Government Office in the Memorial Student Center or from the Dean of Student's Office.

THE SPEECH AND HEARING CLINIC

The Department of Speech operates a clinic to provide free assistance to any Marshall student who wants to 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.

THE READING CENTER

The Reading Center provides special reading programs for Marshall University students, who may enroll for periodic short-term intensive reading improvement courses. These courses are available for students who are presently deficient readers and for students competent in reading but who would like to develop greater reading proficiency.

STUDENT GOVERNMENT

The Student Government provides an instrument for all students to have a voice in any program which would make Marshall a better university. It is constructed to represent democratically all members of the student body. It is designed to reflect student opinion, and to crystallize and make effective any constructive program. It encourages initiative and civic development; it trains for intelligent citizenship.

DEBATE, SPEECH CONTESTS, AND THE SPEAKERS BUREAU

Marshall University's forensics program, under the direction of the Department of Speech, provides students with opportunities for intercollegiate competition and for appearances before audiences in the Huntington area.

Marshall's debaters meet teams from other colleges and universities through a season which culminates in the regional or national Pi Kappa Delta Meet. Marshall students also compete in intercollegiate contests in oratory, extemporaneous speaking, discussion, after-dinner speaking, and interpretive reading. Tryouts for the debate squad and for the individual speaking events are open to all full-time undergraduates.

Pi Kappa Delta is the national honorary forensics fraternity. Membership is conferred on those achieving distinction in intercollegiate debate and other intercollegiate speaking events.

The Speakers Bureau is an honorary service organization offering 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. Membership in the Speakers Bureau, open to all Marshall University students, is earned through auditions.

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, selfreliance, and cooperativeness. A further purpose is to encourage appreciation of dramatic literature, and to help keep alive the plays which have made dramatic history.

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 Cappella 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, the campus newspaper, is published four times a week by students working in the Department of Journalism.

The Student Handbook is published annually and contains general information for all students with particular emphasis on information for freshmen.

The Chief Justice, the university annual, is published by students constituting the Chief Justice Board.

Et Cetera is a campus literary magazine and is published semiannually.

RELIGIOUS LIFE

A number of local churches, representing a variety of faiths, have joined together in a united effort to operate the Campus Christian Center. The Center is located at the corner of 17th Street and Fifth Avenue, which is contiguous with the Marshall University campus.

The purpose of the campus ministry is to develop as 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 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.

INTRAMURALS

The intramural program at Marshall University is a program of competitive athletics and recreational activities promoted for every student on the campus. The program is sponsored jointly from student activity fees and the physical education department and conducted by members of the physical education staff. It includes a variety of activities in every field of athletics and recreational interests designed for lifelong participation.

INTERCOLLEGIATE ATHLETICS

The Athletic Committee 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 Director of Athletics who reports to the president is responsible for implementing the athletic policy of the university. The athletic program is advised by the Athletic Committee.

Athletic coaches also serve as academic instructors and are required to have degrees for teaching on a college level.

The university participates in the following intercollegiate sports: football, basketball, baseball, track, cross country, tennis, golf, swimming and wrestling.

STUDENT ORGANIZATIONS

Nearly 100 clubs and organizations are active on the Marshall University campus offering extra-curricular activities for students in the following interest areas: drama, forensics, music, religion, honorary, professional, Greek, and social. For more information, contact the Dean of Students Office.

STUDENT CONDUCT

The faculty and administration of Marshall University recognize fully the rights and responsibilities of 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.

In order for Marshall University to function properly as an educational institution, students must assume full responsibility for their actions and behavior. Too, students are expected to respect the rights of others, to respect public and private property, and to obey constituted authority. A student's registration in this institution constitutes his (or her) acceptance of these responsibilities, and this registration serves as an agreement between the student and the University. Failure to adhere to the rules and conduct regulations of the University places the student in violation of the Marshall University Code of Conduct and may, therefore, subject the student to disciplinary action such as disciplinary warning, a period and degree of probation, or suspension.

Students, therefore, are expected to be thoroughly familiar with University rules and regulations as are expressed in this catalog and in the Student Handbook. Copies of the Student Handbook are available in the Dean of Students Office or the Student Government Office.

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.

The Graduate School

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 Graduate School awards the Master of Arts, the Master of Science, the Master of Arts in Journalism and the Master of Business Administration degrees. A master's degree may be earned in the following graduate programs:

Adult Education	M.S.
Art	M.A., M.S.
Biological Sciences	M.A., M.S.
Business and Commerce	M.B.A.
Business Education	M.A.
Chemistry	M.S.
Communication Arts	M.A., M.S.
Counseling	M.A.
Education, Early Childhood	M.A.
Education, Elementary	M.A.
Education, Secondary	M.A.
Educational Administration	M.A.
Educational Supervision	M.A.
English	M.A., M.S.
Geography	M.A., M.S.
Health and Physical Education	M.A., M.S.
History	M.A., M.S.
Home Economics	M.A., M.S.
Journalism	M.A.J.
Library Science Education	M.A.
Mathematics	M.A.
Music	M.A., M.S.
Physical Science	M.A., M.S.
Political Science	M.A., M.S.
Psychology	M.A., M.S.
Reading Education	M.A.
Social Studies	M.A., M.S.
Sociology	M.A., M.S.
Special Education	M.A.
Speech	M.A., M.S.
Speech Pathology & Audiology	M.A.
Vocational Technical Education	M.S.

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 THE GRADUATE SCHOOL

Admission to the Graduate School is based on a baccalaureate degree from an accredited college or university, and on the information provided on the "Application for Admission" form.

The application for admission must be filed in the Office of Admissions at least one month prior to the opening of the term of enrollment. Three official copies (two official copies for applicants with undergraduate degrees from Marshall University) of the applicant's undergraduate transcript showing the degree earned and the date on which it was conferred must be mailed directly from the student's undergraduate college or university to the Office of Admissions when the application is filed.

Under special circumstances (for instance, justifiable delays in the forwarding of undergraduate transcripts), the Dean of the Graduate School may permit students who have not been admitted to the Graduate School to enroll in graduate courses. However, if admission is not completed within a reasonable time, it is the prerogative of the Dean of the Graduate School to withdraw the student from the courses by administrative action, or to direct that the credit may not be applied toward an advanced degree in any program.

SENIORS - On recommendation by the Department Chairman and with the approval of the undergraduate Dean and the Dean of the Graduate School, seniors with superior academic undergraduate records may be permitted to enroll in graduate courses. Complete applications must be on file in the Graduate School Office and permission secured *prior* to the opening of the term of enrollment. Credit for graduate courses completed as a senior cannot be applied to both an undergraduate and a graduate degree at Marshall University.

FOREIGN STUDENTS- Foreign students are admitted to Marshall when they demonstrate proficiency in written and spoken English by the successful completion of the Test of English as a Foreign Language, administered by the Educational Testing Service of Princeton, New Jersey. Information concerning this test can be secured through U. S. Embassies and Consulates throughout the world or by writing to TOEFL, 1755 Massachusetts Avenue, N. W., Washington, D. C. 20036.

The applicant must also file an application for admission and an official transcript of all academic credits and grades in the Office of Admissions. The transcript must be sent by the institution last attended. The "Application for Admission to an Educational Institution in the United States" form may be secured by writing to the Director of Admissions, Marshall University, Huntington, West Virginia 25701.

Foreign students admitted to the university must have sufficient funds to take care of all expenses. Further inquiries should be addressed to: Director, Student Relations Center, Memorial Student Center, Marshall University, Huntington, West Virginia 25701.

ADMISSION TO CANDIDACY

Admission to the Graduate School does not imply admission to candidacy for a master's degree. The student must apply, and be approved, for admission to candidacy before he can be considered a candidate for a graduate degree.

Upon completion of at least twelve hours of Marshall University graduate credit, application may be made to the Graduate School Office for admission to candidacy. To be considered for such admission, the student must have earned a quality point average of 3.0 (B) in the completed graduate courses applicable to his program. Special departmental requirements for admission to candidacy, detailed in the "Courses of Instruction" section of this catalog, also must have been met.

The student will be asked to complete the "Application for Admission to Candidacy" form in conference with his designated adviser. If necessary, letters of evaluation may be requested from the instructors of the graduate courses he has completed. After careful consideration of the student's total record, the adviser shall forward his recommendation to the Dean of the Graduate School for his approval.

THE ADVISER

The Graduate 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 comprehensive examinations, assembles questions for the written and oral examination and reports the result of the examination 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 Graduate Dean, the requirement of a minor may be waived.

Graduate courses are numbered 500 to 699. Selected courses with 400 series numbers for undergraduate credit have 500 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 paper, 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) in the graduate courses presented for the degree. 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.

COMPREHENSIVE EXAMINATIONS

In addition to these general requirements for the master's degree, the department may require that a comprehensive examination be taken under the direction of the Graduate Dean after it appears that the course work in progress will be completed successfully. The examination may be written, oral or both.

The examination is not solely based upon the specific courses completed, but affords the student an opportunity to demonstrate a broad comprehension and synthesis of the major subject.

The examination is graded and/or conducted by an examining committee consisting of three graduate faculty selected by the graduate student and his or her graduate adviser, and approved by the Graduate Dean. It is the responsibility of the student and the adviser to obtain the written assent of the graduate faculty to serve on the examining committee. Forms for this purpose are available in the Graduate School Office.

The graduate adviser, who acts as chairman of the examining committee, prepares the questions for the written examination in consultation with other faculty in the subject, and conducts the oral examination. Sample examination questions are on file in each department office, in the Graduate School Office, and in the University Library, and shall be made available to the graduate student.

The grade given on the examination is "pass" or "not pass". The decision on the grade is made by a majority vote of the members of the committee, and forwarded by the chairman to the Graduate Dean on a form provided by the Graduate School Office. If the grade given on the examination is "not pass," there are no restrictions on the number of times the examination may be retaken, except that it may not be retaken in the same semester or summer term.

APPLICATION FOR GRADUATION

Applications for Graduation **MUST** be filed in the Office of the Graduate School **NOT LATER** than the date printed in the calendar of the final term or semester in which the degree requirements will be completed. Forms for applying for graduation may be obtained from the Office of the Graduate School. A receipt for a diploma fee of \$10.00, payable at the Cashier's Office, must be attached to the application before it will be accepted by the Graduate School Office. Students who fail to apply and to pay the diploma fee may not take the final comprehensive examination and will not be included on the graduation lists.

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 of 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 number of hours per semester as agreed to between the student and the thesis adviser. 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. When the thesis is completed, the adviser assigns a grade which applies to all 6 hours earned for the thesis. 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 prepared according to the form furnished by the Graduate School Office, or according to guidelines available in the department which have been approved by the Graduate Dean. Three unbound copies of the thesis must be submitted to the adviser and filed with the Dean of the Graduate School by the dates printed in the calendar of the term in which the student intends to graduate. If the student fails to meet these dates, the Graduate Dean may postpone his graduation until the end of the following term. 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.

TIME LIMITATIONS

All requirements for the master's degree must be met within five years from date of admission to a graduate degree program, unless an extension in time not to exceed three years is granted by the Graduate Dean. Absence in one of the armed services, long serious illness, or similar circumstances may be regarded as proper reasons for an extension of time. Validation by special examination on credit that is more than five years old is optional with the major department.

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 should limit their schedules in proportion to the time available for graduate study. As a general practice, the maximum graduate load recommended for a student in full-time employment is six hours in a semester or three hours in a five-week summer term.

TRANSFER OF GRADUATE CREDIT

The Graduate Dean may grant to a student the privilege of transferring to Marshall University credit earned in graduate course work completed at another accredited graduate institution provided that the courses are appropriate to the student's program and the grades earned are "A", "B" or "C" (courses with "C" grades are accepted on the same basis as those taken at Marshall University). The amount of such transfer credit cannot exceed nine semester hours in one field or total more than 12 hours. Graduate credits transferred from other institutions may only be accepted if they are not superannuated toward meeting degree requirements by time limitations.

RESIDENCE REQUIREMENT

Except for transfer credit, all work counted toward a master's degree must be taken in courses offered or approved by the Graduate School of Marshall University. Such courses shall be considered as residence credit whether they are taken on or off the Huntington campus.

ADMISSION TO THE GRADUATE SCHOOL

For those students who wish to begin or to complete graduate work in off-campus courses, the same admission and graduation requirements apply as for all other graduate students. Off-campus students who fail to comply with these regulations may be refused admission to the Graduate School or be withdrawn from courses by administrative action of the Graduate Dean.

GRADE APPEAL PROCEDURE FOR GRADUATE COURSES AND COMPREHENSIVE EXAMINATIONS

A graduate student may appeal the grade received in a graduate course or comprehensive examination by adhering to the following procedure:

1. The graduate student shall confer with the graduate course instructor or the chairman of the graduate examining committee.
2. If Step One does not lead to a resolution of the issue, the student may make a written appeal to the Department Chairman within sixty days of the mailing of the grade from the Registrar's Office or the Graduate School Office. The Chairman shall attempt to mediate the issue on the departmental level, and shall notify the parties concerned in writing of the decision reached in the matter.
3. Either party may appeal in writing from the Departmental level to the Dean of the Graduate School. The Dean shall attempt to mediate the issue, and shall notify the parties concerned in writing of the decision he has reached.
4. Either party may appeal the Dean's decision in writing to the Chairman of the Graduate Council, who will appoint a sub-committee of the Graduate Council to review the appeal.
 - a. Membership of the sub-committee shall consist of:
 - (1) two members of the Graduate Council, one of whom shall serve as Chairman.
 - (2) the Dean of the Graduate School.
 - (3) two graduate students, including, whenever possible, the elected graduate student representative member of the Graduate Council.
 - b. the sub-committee shall investigate the matter, shall hold hearings if necessary, and shall make a written report together with a recommended course of action to the Graduate Council.
 - c. the Graduate Council, after carefully considering the sub-committee's report, shall reach a decision on the appeal. The Chairman shall communicate the Council's decision in writing to the parties concerned.
5. Further appeals may be taken to the Vice President for Academic Affairs and to the President of the University.

THE GRADUATE RECORD AND OTHER EXAMINATIONS

Individual departments may require the Graduate Record Examination, the Graduate Record Examination-Aptitude Test, the National Teacher Examination, the Admission Test for Graduate Study in Business, or other

examinations prior to the student's admission to candidacy for a master's degree. Appropriate lists of such examination requirements are maintained in the Graduate School Office.

These examinations will be administered at Marshall University and other testing centers on dates listed in the Office of the Graduate School and the Registrar's Office. The student wishing to take any of these examinations must make proper application and pay the required fees directly to the organization in charge of the examination, which should be notified to send an official copy of the examination scores to the Dean of the Graduate School, Marshall University, Huntington, West Virginia 25701.

GRADUATE ASSISTANTSHIPS AND FINANCIAL AID

Most departments offering the master's degree have funds for graduate assistantships. The amount of the award may vary but includes the waiver of tuition and some fees. Graduate assistants perform duties required and carry a lighter load than do full time students. Information about graduate assistantships may be secured by contacting the department chairmen or the Graduate School Office.

Inquires about graduate fellowships, work-study opportunities, loans and other forms of financial assistance should be directed to the Graduate School Office or to the Director of Financial Aid, Marshall University, Huntington, West Virginia, 25701.

RESPONSIBILITY

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

Courses of Instruction

ABBREVIATIONS

PR Prerequisite

CR Corequisite

REC Recommended

I,II,S I - Fall semester; II - Spring semester; S - Summer

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

ART (ART)

Professor June Kilgore (chairman)

Applicants for admission to the graduate program should have adequate preparation in art. A portfolio or colored slides of previous art work, to be evaluated by the Art Department faculty, is required. Applicants revealing studio deficiency may be required to do additional work in the area of weakness. The quality of the student's work is reviewed by the faculty when application for admission to candidacy is made.

A thesis is optional. Prior to graduation, the candidate shall exhibit creative work achieved during the program of study.

Course Requirements	hours
Minimum	32 - 36
Studio major in painting, sculpture, printmaking, drawing, ceramics, or art history	15 - 21
Art history (minor)	.6
Seminar	.3
Electives in related courses	.6

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 present.

503. ORIENTAL ART. 3 hrs.

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

504. 20th CENTURY ART. 3 hrs.

A survey of the development of architecture, painting and sculpture in the western world during the present century.

505. ART IN AMERICA. 3 hrs.

A survey of the development of architecture, painting, and sculpture from colonial times to the present.

506. FIGURE DRAWING. 3 hrs.

Practice in drawing from the posed human figure.

507. PREHISTORIC AND PRIMITIVE ART. 3 hrs.

An introduction to the unique Arts of so-called precivilized peoples with a two-fold emphasis: First, the European Pre-Historic, Second, the Non-European Primitive.

508. **BLACK ART.** 3 hrs.
A survey of the development of black arts from ancient Africa to contemporary expressions in both old and new world.
- 555-556. **PAINTING: ACRYLIC AND OIL.** 3;3 hrs.
Study and practice of painting in expressing still life, landscape and the human figure.
570. **GRAPHIC PROCESSES.** 3 hrs.
Experiments in the media of etching, drypoint, lithography and wood cuts as means of pictorial expression.
601. **ADVANCED PROBLEMS IN ART EDUCATION (GRADES K-12)**
3 hrs.
For graduate students with limited experience in the arts and crafts wishing to familiarize themselves with methods and materials used in art education.
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 hrs.
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 (BR)

Professor Jennings (chairman)
Associate professor Goodwin
Assistant professor McNearney

The Department of Bible and Religion offers a minor field of study which is open to majors in all fields.

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
(BSC)**

Professors Ward (chairman), Fisher, Mills, Plymale, Warren
Associate Professors Ash, Gillespie, Tarter
Assistant Professors Binder, Bird, Gain,
Joy, Kahle, Modlin, Taylor, Weak

The Master of Arts or the Master of Science degree 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.

Admission to the graduate program in the biological sciences will depend upon the student's admission to the Graduate School, completion of the graduate record examination (verbal, quantitative, and advance), and acceptance by the department.

The student will select his graduate program in consultation with a committee composed of the department chairman and at least two members of the graduate faculty, one of whom may be the thesis adviser. This should be done early in the program, preferably prior to or during the first registration.

Graduate degree candidates must have adequate knowledge in both plant and animal sciences. Students who are admitted to the program with a concentration in one of these fields and with little work in the other are expected to diversify their studies in the biological sciences. This diversification should begin early in the graduate program.

The student may elect to submit a thesis as a part of this program. The thesis must conform to the guidelines established by the Graduate School and the department. The maximum amount of credit that may be earned for the thesis is six hours. It must be completed and submitted to the department and to the Graduate School by the dates specified in the University Calendar. Students selecting this option must complete at least thirty-two hours of graduate work including the maximum of six hours for the thesis.

Students may elect to enroll in additional graduate courses in lieu of a thesis. If this option is selected, at least thirty-six hours of graduate credit must be included in the program.

Each candidate must submit at least two hours of credit in seminar, and must enroll in seminar in each fall and spring semester that he is a full-time student or serves as a graduate assistant.

At least six hours of graduate work must be completed in a minor field. The department may recommend to the Graduate Dean that the minor requirement be waived. Upon the completion of the course requirements and of the thesis (if the thesis option is selected), the candidate must pass a comprehensive oral examination.

Students interested in the special program for biology teachers should see the section of this Catalog: Education-Curriculum and Instruction, Secondary 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.

503. **BIOLOGICAL MICROTCHNIC.** 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.
504. **CELLULAR PHYSIOLOGY.** 4 hrs. I,II,S.
The physio-chemical nature of intracellular processes in plant and animal cells with emphasis on the functional significance of microscopic and submicroscopic structure and organization.
REC: Background in biological sciences, chemistry and physics.
505. **ECONOMIC BOTANY.** 3 hrs. I,S.
Plants used by man for food, ornamental purposes, building materials, textiles and other industrial purposes: economic importance of conservation. No laboratory.
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. I,S.
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. I,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. I.
Nature, cause and control of plant diseases. 2 lec.-4 lab.
524. **ANIMAL PARASITOLOGY.** 4 hrs. I,II, or S.
(Offered every third semester).
Morphology, life histories, classification, and host relationships of common parasites. 2 lec.-4 lab.
REC: Zoology 212 or equivalent.
526. **MEDICAL ENTOMOLOGY.** 4 hrs. I,II, or S.
(Offered every third semester).
The characteristics and control of certain insects and other arthropods which transmit disease-causing organisms. 2 lec.-4 lab.
REC: Zoology 212 or equivalent.
530. **ECOLOGY.** 4 hrs. II,S.
The interrelationships of plants and animals. Local and world distribution of biotic communities. 2 lec.-4 lab.

531. LIMNOLOGY. 4 hrs. II,S.
The study of inland waters; ecological factors affecting lake and stream productivity and various aquatic communities. 2 lec.-4 lab.
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. HISTORY AND DEVELOPMENT OF SCIENTIFIC THOUGHT
3 hrs. II,S.
A study of men who have influenced science; their ideas; the philosophy of their periods; and the conditions leading to scientific advancement.
601. VERTEBRATE EMBRYOLOGY. 4hrs. I,S.
Vertebrate development based on frog, chick and pig embryos. 2 lec.-4 lab.
608. PLANT PHYSIOLOGY: GROWTH AND DEVELOPMENT.
4 hrs. II, S.
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 (504) or equivalent.
- 613-614. GENERAL ENTOMOLOGY. 2;2 hrs. S.
Collection, identification, classification and mounting of insects. I lec.-4 lab.
- 620-621-622. TAXONOMY OF VASCULAR PLANTS. 1-2 hrs. II.
Field studies in the taxonomy of higher plants. (Limited to 4 hours credit per student).
625. HUMAN ANATOMY AND PHYSIOLOGY. 4 hrs. II,S.
The structure and functions of the human body. 3 lec.-2 lab.
626. PROTOZOOLOGY. 4 hrs.(Offered every third Semester).
A study of free-living and parastic protozoa important to agriculture, wild-life, and man. Morphology, physiology, reproduction, ecology, and life histories of parasitic protozoa will be emphasized.
631. ANIMAL ECOLOGY. 4 hrs. I,S.
A study of population and behavior ecology; community dynamics and field techniques. 2 lec.-4 lab.
- 650-651-652. SPECIAL PROBLEMS. 1-3; 1-3; 1-3 hrs.
By permission of adviser.
- 660-661-662. SEMINAR. 1; 1; 1 hrs.
679. PROBLEM REPORT. 1-3 hrs.
681. THESIS. 1-6 hrs.
By permission of adviser.

BUSINESS
(ACC, BED, FIN, MGT, MKT)

Professors Anderson, Ashford, Drewry
Associate Professors Alexander (M.B.A. Director),
Balsmeier, Bromley, Chen, Cyrus, Miller, Toulouse
Assistant Professors Kademani, Wiswell

MASTER OF BUSINESS ADMINISTRATION PROGRAM

Marshall University, through its Graduate School and College of Business and Applied Science, offers an excellent opportunity for qualified candidates to earn the Master of Business Administration degree. In keeping with its purpose of providing professional preparation and foundation, the M.B.A. program gives emphasis to building a strong fundamental framework and the development of skills in managerial problem-solving and decision-making.

In addition, a degree of specialization is provided for the student through his selection of an area of concentration. To this end, programs are prepared on an individual basis in an attempt to accomplish the student's professional objectives.

PROGRAM DESIGN

Business policies and procedures, reflecting rapid advances in technology, are subject to change over time. Methods and practices in current use may be totally inadequate for coming decades. For this reason, greater emphasis is placed on sound general principles and decision-making techniques which provide a base for continuous learning.

To accomplish this purpose the program involves:

1. A series of business foundation courses which assist the student with an undergraduate degree in a field other than business to continue his professional development.
2. A broad study of functional areas of business and their inter-relationships, with emphasis on application of knowledge, concepts, and analytical methods for problem-solving.
3. Elective subject matter areas to provide for each candidate's specific professional objectives. Within the framework of the basic program, each candidate has considerable choice in selecting an area of professional concentration. Areas currently offered are: accounting, marketing, finance, and management.

The program may be completed in one calendar year, attending on a full-time basis and depending on the candidate's previous training, experience, and objectives.

Business foundation courses required as needed for those lacking	Hours
in undergraduate background	18
Functional studies	24
Specialization	6
Thesis (or electives)	6

ADMISSION TO THE M.B.A. PROGRAM

Admission to the M.B.A. program conforms with existing policies for the Graduate School. Decisions on applications for admission to the M.B.A. program shall be based upon a careful consideration of the applicant's total record, which may include undergraduate work, graduate work completed at the time of application, letters of reference, test scores (such as the A.T.G.S.B. - Admission

Test for Graduate Study in Business), and other relevant data. Undergraduate preparation in business administration is not a prerequisite for admission to the program.

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 (B).

2. Candidates must pass a comprehensive, written examination in their area of specialization. The examinations will normally be given each semester or term.

COURSE REQUIREMENTS

BUSINESS FOUNDATION COURSES

It is to be expected that students applying for admission to the M.B.A. degree program will hold different undergraduate degrees and have diverse backgrounds. Those with undergraduate degrees other than business administration can be accepted into the program by completing business foundation courses designed to prepare them for graduate level courses in the School of Business. Generally, but not inflexibly, these business foundation courses are:

	Hours
Management 320-Principles of Management	3
Marketing 340-Principles of Marketing	3
Finance 323-Principles of Finance	3
Management 600-Analytic Methods and Tech	3
Accounting 610-Financial Accounting	3
Economics 648-Economic and Financial Concepts	3

FUNCTIONAL STUDIES

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

	Hours
Management 601-Quantitative Controls in Business	3
Accounting 612-Accounting Functions in Business	3
Finance 620-Financial Management	3
Management 672-Theories of Administration	3
Marketing 682-Advanced Marketing Management	3
Management 691-Government and Business Relationships	3
Economics (graduate courses)	6

AREAS OF SPECIALIZATION

The student must select six hours in one of the four areas of specialization. Six additional elective hours must be selected from any of the specialization areas, from some area outside the School of Business (with advisory approval), or a thesis may be written.

ACCOUNTING SPECIALIZATION:

	Hours
Accounting 613-Profit Planning and Controls	3
Accounting 614-Theory of Accounting	3
Accounting 615-Auditing theory and Practice	3

FINANCE SPECIALIZATION:

	Hours
Finance 625-Financial Problems in Business	3
Finance 626-Security Analysis and Portfolio Management	3
Finance 627-Financial Institutions and Markets	3

MANAGEMENT SPECIALIZATIONS:

	Hours
Management 673-Problems in Personnel Management	3
Management 674-Administrative Policies and Planning	3
Management 675-Problems in Labor-Management Relations	3

MARKETING SPECIALIZATION:

	Hours
Marketing 685-Marketing Problems	3
Marketing 686-Marketing Theory	3
Marketing 687-Seminar in Marketing	3

COURSES

ACCOUNTING
(ACC)

610. FINANCIAL ACCOUNTING. 3 hrs.
Principles, concepts, and problems underlying the evaluation, 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.
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 CONTROLS. 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.
681. THESIS. 1-6 hrs.

**FINANCE
(FIN)**

620. **FINANCIAL MANAGEMENT.** 3 hrs.
An examination of business corporations practicing at the level of the individual form with emphasis on quantitative analysis of the variables which affect liquidity and profitability.
625. **FINANCIAL PROBLEMS IN BUSINESS.** 3 hrs.
Recognizing and solving financial problems through the use of case presentations and/or corporate annual and interim reports.
626. **SECURITY ANALYSIS AND PORTFOLIO MANAGEMENT.** 3 hrs.
Analytical procedures used by institutional portfolio managers to measure both past performance of holdings and anticipated market performance of current offerings. Emphasis in this course may be expected to be more centralized in the area of fundamental analysis.
627. **FINANCIAL INSTITUTIONS AND MARKETS.** 3 hrs.
An in-depth study of the flow of funds in the aggregate financial systems, with emphasis on those in the United States. Because interest rates, bank reserve requirements, of Federal Reserve System are all dynamic in character, the content of this course may be expected to vary as financial events of the future dictate.
681. **THESIS.** 1-6 hrs.

**MANAGEMENT
(MGT)**

600. **ANALYTIC METHODS AND TECHNIQUES.** 3 hrs.
Provides 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.
602. **MANAGEMENT INFORMATION SYSTEMS.** 3 hrs.
To familiarize students with the characteristics and functions of management information systems, as well as the benefits, limitations, and applications for advanced management information systems.
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.
(Also Psychology 673).

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 system; 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 decision. Alternative directions for future developments are studied.
681. **THESIS.** 1-6 hrs.
691. **GOVERNMENT AND BUSINESS RELATIONSHIPS.** 3 hrs.
Emphasis implaced 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.

MARKETING (MKT)

681. **THESIS.** 1-6.
682. **ADVANCED 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.
685. **MARKETING PROBLEMS.** 3 hrs.
Determination of the marketing mix within the framework of the problem-solving and decision-making process.
686. **MARKETING THEORY.** 3 hrs.
An analytic framework and its application to devision areas in marketing.
687. **SEMINAR IN MARKETING.** 3 hrs.
An advanced study of basic concepts of current problems in Marketing. Seminar discussions and research projects.

BUSINESS EDUCATION (BED)

The student may opt for the Master of Arts degree in Business Education or the Master of Arts degree in Secondary Education with a specialization in business education. For further details of these programs, see pp. 69.

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 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
(CHM)**

Professors Chakrabarty, Douglass, Hanrahan (chairman), Hoback, Lepley
Associate Professors Kong, Larson, Roberts,
Assistant Professors Babb, Mosher, Price

DEGREES OFFERED

MASTER OF SCIENCE (CHEMISTRY): This program is intended primarily for individuals interested in advanced training in chemistry and related disciplines in preparation for scientific careers in industry, government or post-secondary school education. The program emphasizes individual instruction, independent study and research. A minimum of thirty-two semester hours is required for the degree, of which no more than twelve semester hours may be in Chemistry 682 (Research). The student is required to present an acceptable thesis, based on an original research project, and to present the results of his research in an oral examination.

MASTER OF SCIENCE (PHYSICAL SCIENCE): This degree program, offered in cooperation with the Departments of Geology and Physical Science and Physics, is intended to provide a broadly based advanced science program for individuals whose undergraduate program in science lacks depth or breadth. Programs will be designed to meet individual needs. The writing of a thesis is optional. Specific degree requirements are listed in the section: Physical Science and Physics.

MASTER OF ARTS (PHYSICAL SCIENCE): This degree program, offered in cooperation with the Departments of Geology, Physical Science and Physics, and Curriculum and Foundations, is intended to meet the needs of public school teachers (1-12). Programs will be designed to meet individual needs. Specific degree requirements are listed in the section: Education-Curriculum and Instruction, Secondary Education.

ADMISSION TO CANDIDACY: After being admitted to the Graduate School, and prior to registration, the student will meet with his designated advisor to determine the specific program of studies necessary to prepare for admission to candidacy for the degree. Programs will be adjusted to reflect major interests and prior training of the student. Normally, the student will be eligible to apply for admission to candidacy after the satisfactory completion of twelve hours of graduate course work.

COURSES

510. **ADVANCED SYNTHESIS AND ANALYSIS.** 4 hrs.
 Advanced problems in synthesis, separation and analysis with
 emphasis on modern instrumental methods. 2 lec.-6 lab.
 REC: Chemistry 256 or equivalent.
520. **FUNDAMENTALS OF CHEMISTRY.** 4 hrs. S. Offered on demand.
 Open only to M.A. candidates. 3 lec.-3 lab.
540. **THERMODYNAMICS.** 3 hrs.
 An introduction to chemical thermodynamics and statistical
 mechanics. 3 lec.
 REC: Chemistry 358, or equivalent.
548. **ADVANCED INORGANIC CHEMISTRY I.** 2 hrs.

- A study of physical and chemical properties and periodic relationships of inorganic materials. 2 lec.
549. ADVANCED INORGANIC CHEMISTRY II. 2 hrs.
A detailed consideration of bonding, structure, reaction rates and equilibrium involving inorganic materials. 2 lec.
REC: Chemistry 448 or equivalent.
556. ADVANCED ANALYTICAL CHEMISTRY. 2 hrs.
Modern theories and methods of analysis with emphasis on instrumental methods. 2 lec.-3 lab.
REC: Chemistry 345 or equivalent.
560. MOLECULAR SPECTROSCOPY. 3 hrs.
A study of the emission and absorption of radiant energy and its relation to molecular structure. 3 lec.
REC: Chemistry 358 or equivalent.
562. NUCLEAR CHEMISTRY AND PHYSICS. 3 hrs. II.
An introduction to the phenomena of nuclear physics and chemistry. 3 lec.
REC: Mathematics 221 or equivalent.
563. NUCLEAR CHEMISTRY AND PHYSICS LABORATORY. 2 hrs. II.
4 lab.
REC: Chemistry 462 or equivalent.
575. ADVANCED BIOCHEMISTRY. 3 hrs. I.
A discussion of energy relationships in biological systems and the mechanism of metabolism. 3 lec.
REC: Chemistry 300 or equivalent.
576. ADVANCED BIOCHEMISTRY LABORATORY. 2 hrs. II.
Laboratory methods for the preparation, purification, and characterization of biochemical systems.
REC: Chemistry 475 or equivalent.
580. QUANTUM MECHANICS. 3 hrs.
An introductory course in quantum mechanics. 3 lec.
REC: Mathematics 231 or equivalent.
582. ADVANCED ORGANIC CHEMISTRY I. 3 hrs. I.
Studies of the dynamics of organic reactions with emphasis on mechanisms and stereochemistry. 3 lec.
REC: Chemistry 256 or equivalent.
583. ADVANCED ORGANIC CHEMISTRY II. 3 hrs. II.
A continuation of Chemistry 582 with emphasis on synthetic methods. 3 lec.
PR: Chemistry 582.
604. THEORIES OF ANALYTICAL CHEMISTRY. 2 hrs.
Offered on demand.
PR: Chemistry 556.
607. THEORETICAL ORGANIC CHEMISTRY. 2 hrs.
The application of quantitative methods to problems in structure and dynamics. 2 lec.
PR: Chemistry 582.

616. X-RAY DIFFRACTION. 3 hrs.
Offered on demand. The properties of X-rays and crystal structure.
2 lec.-3 lab.
REC: Mathematics 221 or equivalent.
618. KINETICS. 3 hrs.
An advanced study of reaction rates and mechanisms.
626. ORGANIC CHEMISTRY FOR TEACHERS. 5 hrs. S.
Offered on demand. Open only to M.A. candidates. 3 lec.-6 lab.
PR: Chemistry 520 or equivalent.
627. PHYSICAL CHEMISTRY FOR TEACHERS. 5 hrs. S.
Offered on demand. Open only to M.A. candidates. 3 lec.-6 lab.
PR: Chemistry 520 or equivalent.
628. SPECIAL TOPICS (INORGANIC). 1-3 hrs. Offered on demand.
629. SPECIAL TOPICS (ORGANIC). 1-3 hrs. Offered on demand.
630. SPECIAL TOPICS (PHYSICAL). 1-3 hrs. Offered on demand.
- 631-632. SEMINAR. 1 hr. I,II.
639. ADVANCED QUANTUM MECHANICS. 3 hrs.
Offered on demand. 3 lec.
PR: Chemistry 580.
682. RESEARCH. 1-12 hrs. I, II, S.
Credit in the course is earned by pursuing a directed original investigation in a field of chemistry. Twelve semester hours credit in research are applied toward the M.S. degree. Students may sign for one or more credit hours per semester depending upon the time to be spent on research. A grade of PR may be reported at the close of each term or semester.
PR: Approval of Department Chairman.

CLASSICAL STUDIES

Professor Hoy (chairman)

The Department of Classical Studies offers minor fields of study in Latin and in classics. These minors are appropriate for graduate programs in English and in history.

LATIN (LAT)

501. ROMAN LIFE: PLINY, MARTIAL, JUVENAL. 3 hrs.
REC: Four years high school Latin or equivalent in college courses.
502. VERGIL'S AENEID. VII-XII. 3 hrs.
REC: Four years high school Latin or equivalent in college courses.
503. THE ROMAN STAGE: COMEDIES OF PLAUTUS AND TERENCE.
3 hrs.
REC: Four years high school Latin or equivalent in college courses.

- 550-551. SPECIAL TOPICS IN LATIN. 1-4; 1-4 hrs. I, II.
REC: Ten hours of Latin.

CLASSICS (CL)

These courses are given in English and require no knowledge of Greek or Latin.

535. GREEK CIVILIZATION. 3 hrs.
536. ROMAN CIVILIZATION. 3 hrs.

COMMUNICATION ARTS

Administered by the Department of Educational Media with assistance from the cooperating areas, this interdepartmental program is adaptable to the needs of persons in public relations, journalism, advertising, broadcasting, school library service, audiovisual and instructional media service, and similar fields where a wide knowledge of related communication skills is required.

Students lacking the undergraduate equivalent of any course in Group 1 must complete this course for graduate credit. Work selected from group 2 must be distributed so that at least nine hours are outside any area of emphasis. Not more than one course in research methods will be accepted. Students successfully completing EDM 679 and EDM 681 or their equivalent will have the total hours reduced by three. Educational Administration 601 and 606 are open only to students with a teacher's certificate.

Admission to candidacy is based upon completion of at least twelve semester hours of graduate work at Marshall University with at least a 3.0 (B) average, and the recommendation of the department.

Minimum Requirements 33-36 hrs.

Group 1 3-12 hrs.
Educational Media 565 and 621
Educational Media 510 or Journalism 601
Speech 532

Group 2 18-27 hrs.
Any graduate course in Educational Media
Any graduate course in Journalism
Any graduate broadcasting course
Speech 507, 508, 545, 550, 575, 679, 681
English 575, 580-583, 630

Group 3 3-9 hrs.
Curriculum and Instruction 543, 545, 610
Educational Administration 601, 606, 609
Sociology 539, 603, 604
Art 650
Geography 530
Other courses with consent of adviser

**ECONOMICS
(ECN)**

Professor La Cascia (chairman)
Associate Professor Akkihal,
Assistant Professor Pathak,

The Department of Economics offers a minor field of study which is appropriate to many graduate programs, such as Business Administration, Business Education, Educational Administration, History, Home Economics, Political Science, and Social Studies.

508. **COMPARATIVE ECONOMIC SYSTEMS.** 3 hrs.
Marxism, capitalism, communism, fascism and socialism considered as theories, movements and actual political economies.
REC: Economics 241, 242, 300 or equivalent.
515. **REGIONAL ECONOMICS.** 3 hrs.
A study of location theory and regional development within a framework of economic theory.
REC: Economics 241, 242.
520. **INTERNATIONAL ECONOMICS.** 3 hrs.
Movement of goods and balance of payments among nations; exchange rates; exchange controls and tariffs; problems and policies.
REC: Economics 241-242, or 300 or equivalent.
522. **INTRODUCTION TO MATHEMATICAL ECONOMICS.** 3 hrs.
Modern mathematical methods for use in economics and other social sciences.
REC: Economics 241-242, Mathematics 120 or equivalent.
523. **INTRODUCTION TO ECONOMETRICS.** 3 hrs.
Combines economic theory with real data to obtain quantitative results for purposes of explanation and prediction. The development of useful economic models applicable to present-day world problems.
REC: Economics 241, 242, Management 318, Mathematics 120 or equivalent.
530. **MANAGERIAL ECONOMICS.** 3 hrs.
The use of economic principles by management; pricing, sales policies, budgeting, forecasting, inter-firm relations.
REC: Economics 241, 242, 300 or equivalent.
540. **HISTORY OF ECONOMIC THOUGHT.** 3 hrs.
Economic theories and ideas from the earliest economists to those of Marshall and Keynes.
REC: Economics 241-242, or 300 or equivalent.
546. **MONETARY THEORY.** 3 hrs.
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 or stabilization policies of monetary or fiscal authorities, fiscal formulas, automatic stabilizers, Bank reserves, and open market operations.
REC: Economics 310, or equivalent.

550. PUBLIC FINANCE. 3 hrs.
Analysis of governmental activities pertaining to raising of revenue and expenditure of monies; analysis of public debt and fiscal programs at all levels of government.
REC: Economics 241, 242, or equivalent.
560. ECONOMIC DEVELOPMENT. 3 hrs.
A study of the problems, dynamics and policies of economic growth and development in underdeveloped and developed countries.
PR: Economics 241-242, 300 or equivalent.
561. ECONOMIC EDUCATION WORKSHOP. 3 hrs. S.
Intensive review of subject matter and teaching methods in economics for elementary and high school teachers.
PR: Consent of instructor or grant 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.
580. ECONOMICS OF HUMAN RESOURCES 3 hrs.
Theoretical and empirical analysis of various influences affecting the level of wages and salaries in the firm and the economy as a whole. Consideration of wages, general economic activity, demographic and other factors in the determination of unemployment, labor force participation, labor force composition and mobility, and the allocation of the human resource among various geographic, industrial, and occupational areas.
REC: Economics 241, 242 or equivalent.
- 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 and department chairman.
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.
REC: 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.
REC: Economics 326, 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-ADMINISTRATION (EDA)

Professors Gibbins (chairman), Ritchie
Associate Professors Gordon, McCoy

Admission to Candidacy and degree requirements

In addition to Graduate School requirements, students admitted to these programs must have a professional teaching certificate based upon fifteen semester hours in education. One year of successful teaching experience is required before admittance to candidacy.

Students with a master's degree who wish to qualify for additional certification must apply for admission to the program. Students with a 3.0 in their master's degree and who have a professional teaching certificate and one year's teaching experience may be admitted to the program.

A. PRINCIPAL*

	Hours
Minimum requirements .....	.36
1. Education .....	.30
a. Educational Administration 601, 604, 606, 630 .....	.12
b. Educational Foundations 560, 616, or 648, 621 .....	.9
c. Curriculum and Instruction 609 or 610 .....	.3
d. Educational Administration electives 582, 602, 603, 608, 617, 618, 625, 631, or 675 .....	.6
2. Electives (non-professional Education) .....	.6
(Secondary Principals take Curriculum and Instruction 610 and Educational Foundations 648; Elementary Principals take Curriculum and Instruction 609 and Educational Foundations 616.)	

B. SUPERVISOR*

(Must be employed as a supervisor and have 3 years teaching experience).

	Hours
Minimum requirements .....	.36
1. Education .....	.26
a. Educational Administration 601, 606, 671, 672, 673, 674 .....	.14
b. Educational Foundations 560, 616, or 648, 621 .....	.9
c. Curriculum and Instruction 609 or 610 .....	.3
2. Electives .....	.10
(Special supervisors requires 12 hours in specialization for certification).	

C. ADVANCED STUDY IN SCHOOL ADMINISTRATION

(North Central Accrediting Association preparation for high school principal, assistant superintendent or superintendent.)

The Certificate in advanced study in School Administration is earned by completing a minimum of two years of graduate work in residence including

*These degree programs are for certification in the State of West Virginia. North Central Accrediting Association requirements are greater than this and may be completed by enrolling in the Advanced Study in School Administration program.

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 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 Educational Administration 601 and 606, Educational Foundations 560 and 621. 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 at 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.

Among the 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 Measurements and Statistics.

COURSES

582-583-584-585. SPECIAL TOPICS. 1-4; 1-4; 1-4; 1-4 hrs. I, II, S.

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.

PR: One year of teaching experience.

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: Educational Administration 601.
603. GENERAL SCHOOL ADMINISTRATION: PLANT AND EQUIPMENT.
3 hrs. I or II, S.
The use of the school building survey and educational specification are studied in relation to how the building may enhance the educational program. Some field trips are taken to exemplary school buildings.
PR: Educational Administration 601.
604. THE SCHOOL PRINCIPAL. 3 hrs. I or II, S.
Duties and responsibilities of elementary and secondary principals; problems in organizing and directing the school program. Course content is adjusted to the needs of either elementary or secondary school principals.
PR or CR: Education 601.
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.
608. SCHOOL COMMUNITY RELATIONS. 3 hrs. I, or II, S.
Basic principles, rationale and need for a school-community relations program. Roles of the various participants, structure and form of an effective program. Communication theory and practice and community involvement are emphasized.
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 Educational Administration 601.
- 617-618. FIELD COURSE IN CURRENT SCHOOL PROBLEMS.
3; 3 hrs. I, II.
Investigations in current problems of local schools; content determined by needs of students.
PR: Permission of instructor and Educational Administration 601.
625. SCHOOL BUSINESS MANAGEMENT. 3 hrs. I, or II, S.
Development of the basic skills involved in school business management. Includes personnel, finance, budgeting, purchasing, school lunch program, pupil transportation, plant maintenance and operation, and federal programs.
630. STAFF PERSONNEL ADMINISTRATION. 3 hrs. I, or II, S.
Recruitment, selection, orientation, in-service education, professional growth and staff differentiation of personnel will be considered.
PR: Educational Administration 601.

631. **ADVANCED LEADERSHIP TECHNIQUES.** 3 hrs. S.
An introduction to new techniques of administration and supervision, including interaction analysis, sensitivity training, program and research dissemination, strategies for change, micro-teaching, gaming and related simulation and evaluation.
640. **LITERATURE.** 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 Educational Administration 640 is permitted.
PR: Permission of instructor.
641. **SEMINAR.** 2-3 Hrs. I, II, S.
A guided program of readings, reports and discussions. No student may register for this course a second time.
PR: Permission of instructor.
- 671-672-673-674. **PRACTICE IN SUPERVISION.** 2; 2; 2; 2 hrs. I,II.
Practice of supervisory techniques presented in theory courses; sharing the responsibility for carrying forward a supervisory program in a school system.
PR: Permission of instructor and 3 years of teaching experience.
675. **SCHOOL LAW.** 3 hrs. I or II, 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.
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.
681. **THESIS.** 1-6 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 as 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.

EDUCATION-COUNSELING (CR)

Professors Hess, Wallace (chairman)
Associate Professor Dingman
Assistant Professor McDowell

Courses and programs in the Department of Counseling and Rehabilitation serve the professional needs of those involved in the human consultative services. Curricula are developed for secondary and elementary school counselors, rehabilitation and employment counselors and personnel specialists. All programs are developed in accord with the needs of the student, including state certification requirements.

Students desiring to enter graduate programs in counseling must indicate a vocational goal consistent with the purposes of the program. Graduates of accredited four year colleges who are eligible for admission to Marshall University Graduate School and who are approved by the admissions committee

of the Department of Counseling and Rehabilitation are eligible to pursue a Master of Arts degree with a major in counseling.

Majors in counseling plan their programs with the assistance of their advisers. Students desiring certification for public school counseling must plan their programs in accord with state certification requirements. Courses may be selected from any graduate department of the university offering appropriate areas of study. It is recommended that candidates earn credit for at least one course in each of these broad areas:

1. Principles of guidance and rehabilitation
2. Study of the individual
3. Counseling theories and practice
4. Social, educational and occupational information
5. Psychological foundations
6. Research techniques

Following completion of twelve hours of graduate work, six of which must have been taken in residence at the Huntington campus, the student must apply for admission to candidacy. Failure to do so may delay graduation. Majors in Counseling must take the Graduate Record Examination prior to application for admission to candidacy.

The required courses, Counseling and Rehabilitation 649 and 651, usually are taken toward the end of the program and must be taken in residence at the Huntington campus.

COURSES

582-583-584-585. SPECIAL TOPICS. 1-4; 1-4; 1-4; 1-4 hrs. I, II, S.

590. PRINCIPLES AND PRACTICES OF GUIDANCE. 3 hrs. I, II, S.
Objectives, principles, and practices of guidance.

605. GROUP GUIDANCE. 3 hrs. I, II, S.
Gives graduate students an understanding in the use of procedure for guidance and counseling in groups.
PR: Permission of instructor.

613. ORGANIZATION AND ADMINISTRATION OF GUIDANCE PROGRAMS. 3 hrs. I, S.
Problems in planning, organizing and administering guidance programs in elementary and secondary schools.

614. COUNSELING THEORIES. 3 hrs. I, II, S.
Survey of philosophies of counseling as related to the interpersonal relationships involved in the counseling process.
PR: Permission of instructor.

617-618. FIELD COURSE IN CURRENT PROBLEMS IN COUNSELING AND REHABILITATION. 3; 3 hrs. I, II, S.
Investigations in current problems of counseling agencies; content determined by needs of student.

640. LITERATURE. 1-3 hrs. I, II, S.
A program of reading, either extensive or intensive, and reports on a group of outstanding contributions to counseling and rehabilitation; readings selected with guidance of adviser. Only one registration for Counseling and Rehabilitation 640 is permitted.
PR: Permission of adviser.

641. SEMINAR. 2-3 hrs. I,II,S.
A guided program of reading, reports and discussions. No student may register for this course a second time.
PR: Permission of adviser.
646. INDIVIDUAL INVENTORY TECHNIQUES. 3 hrs. II,S.
Techniques of collecting, recording, and interpreting data.
PR: Educational Foundations 417-517 or 435-535.
647. OCCUPATIONAL INFORMATION TECHNIQUES. 3 hrs. II,S.
Techniques used in selecting, filing and using materials pertaining to occupations.
649. SEMINAR IN COUNSELING. 3 hrs. I,II,S.
The nature of the counseling relationship with emphasis upon self-evaluation.
CR: Counseling and Rehabilitation 651 and permission of instructor.
650. SEMINAR IN COUNSELING. 3 hrs. I,II,S.
Counseling tools and techniques with emphasis on problem categories and patterns as related to the psychology of individual differences.
PR: Permission of adviser.
651. PRACTICUM IN COUNSELING. 3 hrs. I,II,S.
Practical experiences in counseling under professional supervision.
CR: Counseling and Rehabilitation 649 and permission of instructor.
653. INTERNSHIP IN COUNSELING. 3 hrs. I,II.
Supervised on-the-job experiences in counseling. Limited to students employed with full responsibilities as counselor.
PR: Permission of instructor.
654. SUPERVISION OF COUNSELING. 3 hrs. I,II.
Supervisory experiences of counselor-candidates in practicum. Limited to students with a masters degree in counseling who are employed as supervisors, expect to be employed as supervisors, or plan to work toward an advanced degree in the field.
PR: Permission of instructor.
655. ADJUSTMENT PROBLEMS OF THE HANDICAPPED. 3 hrs. I,II.
Study of the problems faced by the handicapped in making social, vocational and educational adjustment.
679. PROBLEM REPORT 3 hrs. I,II,S.
The preparation of a written report on a research problem, experiment or field project in counseling or rehabilitation. 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 hrs. I,II,S.
May be taken for 3 hours of credit by students whose reports in 679 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.

EDUCATION-CURRICULUM AND FOUNDATIONS (CI)

Professors Jenkins, Queen (chairman)
Associate Professors Bauer, Campbell, Collins, Fulks,
Hale, Jervis, Koontz, Necco, Regula, Turner, Wellman
Assistant Professors Harvey, Hunter, Lewis

The undergraduate prerequisite for a graduate major is 15 semester hours in Professional Education. Obtaining a teaching certificate by passing the National Teacher Examination does not exempt the applicant from the undergraduate Professional Education course requirements. 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.

To be admitted to candidacy for the master's degree students must:

1. Earn a 3.0 grade point average in at least 12 semester hours of graduate work presented for the degree.
2. Complete Educational Foundations 621 or an equivalent course.
3. Present the results of the common examination of the National Teachers Examination or submit to a written qualifying examination.
4. Have a professional teaching certificate valid in West Virginia or the equivalent.

All students shall earn a minimum of twelve credit hours after admission to candidacy.

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

TEACHER EDUCATION CURRICULA

A. EARLY CHILDHOOD EDUCATION

For teachers with professional certificates valid for teaching in grades K-3 or N-K-6.

	Hours
Minimum requirements	32-36
1. Education	21
a. Educational Foundations 616, 621	6
b. Curriculum and Instruction 631, 632*, 633*	9
c. Counseling and Rehabilitation 614	3
d. Educational Administration 609	3
2. Electives	15
a. Education	6-9
b. Outside of Education	6-9

B. ELEMENTARY EDUCATION

Students in this program may take not more than six hours in counseling

*Teachers with certificates valid for grades 1-9 who wish an Early Childhood Education endorsement will be admitted to these courses after Home Economics 431-531, 3 hours; Speech 445-545, 3 hours; Curriculum and Instruction 671, 3 hours; Curriculum and Instruction 630, 3 hours; and Speech 418-518, 3 hours.

and rehabilitation to be chosen from Counseling and Rehabilitation 590, 614, 646.

	Hours
Minimum requirements	32-36
1. Education	27-30
a. Educational Administration 609	.3
b. Educational Foundations 560, 616, 621	.9
c. Curriculum and Instruction 609	.3
d. Electives	12-15
Select from the following courses:	
Educational Foundations 515, 535, 560, 615, 619, 648	
Curriculum and Instruction 543, 618, 623, 635, 656, 657, 670, 671, 678	
2. Electives (outside education)	6-9

C. SPECIAL EDUCATION

For teachers with professional certificates endorsed for teaching special education pupils. Students without background in special education should anticipate two years of graduate study.

	Hours
Minimum requirements	33-36
1. General Education	15
a. Educational Foundations 616, 621	.6
b. Educational Administration 609	.3
c. Curriculum and Instruction 520, 629	.6
2. Special Education - Select one area of emphasis	15
a. Crippling Conditions (COHI), Curriculum and Instruction 525, 544, 596, 627	12
Electives	.3
b. Emotionally Disturbed Curriculum and Instruction 524, 640, 645, 649	12
Electives	.3
c. Mental Retardation	
Curriculum and Instruction 533, 540, 553	.9
Speech 518	.3
Electives	.3
3. Electives (outside of education)	6

Teachers with professional certificates valid for teaching in grades 7-12 will be limited to grade levels and subject in their Special Education endorsement. For additional grade level endorsements to be Diversified Specialization for elementary teachers must be completed.

D. ART

See the section: ART for admission requirements.

	Hours
Minimum requirements	32-36
1. Education	.6
Select from the following courses:	
a. Educational Foundations 616, 621, 648, 660	
b. Curriculum and Instruction 528, 610, 623	
c. Counseling and Rehabilitation 590	
2. Art	26-30
3. Exhibit creative work achieved during program of study.	

E. LIBRARY SCIENCE EDUCATION

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. Admission to candidacy is based upon completion of at least twelve semester hours of graduate work at Marshall University with at least a 3.0 (B) average, and the recommendation of the department.

	Hours
Minimum requirements	33-36
1. Education	12
a. Educational Administration 609	
b. Curriculum and Instruction 528 or 610	
c. Curriculum and Instruction 543 or 545	
d. Counseling and Rehabilitation 590	
2. Library science, including Educational Media 621	18
3. Electives	6

Completion of EDM 679 and EDM 681 reduces the total hours required for a major in this field to 33. Students majoring in another field may secure a minor in library science by completion of at least six hours in library science courses selected with the approval of the student's major adviser and the Chairman of the Department of Educational Media.

F. MUSIC EDUCATION

The degree Master of Arts in Music 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 or, if a thesis is not submitted, a minimum of 36 hours of course work. The thesis may be a written report, graduate recital, or music composition of merit. 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, 6 hours in music history and literature, 6 hours from other fields of music and 6 hours in professional education.

Majors in Music Education are given an examination in basic skills and capacities in music and 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

	Hours
Minimum requirements	32-36
1. Education	6
Curriculum and Instruction 520, 618, 623, 624 or 678	
2. Music 601a, 610, 611, 615, 630, 676	16
3. Electives in music	10-14

VOCAL

	Hours
Minimum requirements	32-36
1. Education	6
Curriculum and Instruction 520, 618, 623, 624 or 678	

- | | | |
|----|--------------------------------------|-------|
| 2. | Music 601a, 610, 611, 629, 676 | 14 |
| 3. | Electives in music | 12-16 |

G. READING EDUCATION

For teachers who wish to have a professional certificate endorsed for serving as reading specialist in kindergarten through grade 12.

	Hours
Minimum requirements	32-36
Education	
1. Educational Administration 609	3
2. Curriculum and Instruction 611 or 638, 636, 637, 639, 642, 681 ..	15-18
3. Educational Foundations 535, 560, or Curriculum and Instruction 609 or 610, Educational Foundations 616, 619, 621, 648	18

Secondary teachers must take Curriculum and Instruction 610 and 611, elementary teachers must take Curriculum and Instruction 609 and 638.

H. SECONDARY SCHOOL

(For programs in art, library science, music, reading, and special education, refer to Sections D, E, F, G, and C, respectively).

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 Curriculum and Instruction 528.

BUSINESS EDUCATION

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 school. Deficiencies in undergraduate preparation may be corrected while taking graduate courses.

	Hours
Minimum requirements	32-36
1. Education including EDF 621	6
2. Business Education	15
Select from the following courses:	
a. 621, 624, 625, 626, 627	9
b. 629, 630, 631	6
3. Business Administration	9
To be selected from Accounting, Finance, Management, Marketing or Economics.	
4. Electives	2-6
Note: Not to include Business Education 624, 625, 626, 627 or courses in Education except Educational Foundations 679 and Curriculum & Instruction 681.	

SECONDARY EDUCATION

A program open to teachers of all subject areas at the junior high and senior high school levels.

The course work consists of professional education courses designed to increase the teacher's professional skills and competencies and, at the same time, permit the teacher to expand his/her knowledge in the respective academic disciplines by enrolling in a minimum of twelve (12) semester hours in the area of teaching specialization.

	Hours
Minimum requirements	36
1. Humanistic and Behavioral Sciences	3-9
a. Ed.F. 616* Advanced Studies in Child Development or Ed.F. 648 Advanced Studies in Human Adjustment	
b. Electives to be selected from: Ed.F. 619, 660, Ed.A. 606 or C&I 622**	
2. Theory Relevant to the Program	12-21
a. C&I 610* Curriculum in the Modern Secondary School or C&I 528 Secondary Education: Middle School-Junior High School Curriculum	
b. C&I 623* Instructional Models and Assessment Techniques	
c. C&I 624* Advanced Instructional Strategies	
d. C&I 641* Seminar in Education	
e. Electives may be selected from: C&I 541, 545, 609, 611, 635, 636, 637, 638, 640, 652, 657, 668, 678; Ed.A. 606, 609; Ed.M. 565, 566; C&R 590, 605, 613, 615, 647, or others with approval of advisor	
3. Research and Measurement	3-9
a. Ed.F. 621* Research and Writing	
b. Elective Ed.F. 617 and/or Ed.F. 535	
4. Content for Teaching Specialization(s)	12-18

*Required Courses

**With Adviser Approval

SOCIAL STUDIES

For this program, social studies includes economics, geography, history, political science, and sociology (including anthropology). Teachers with less than 30 hours of undergraduate work in this area may be asked to make up their deficiencies prior to admission to candidacy.

	Hours
Minimum Requirements	32-36
1. Education	9
a. Educational Foundations 616 or 648	
b. Curriculum and Instruction 640, 667, or 670	
2. Social studies and electives	23-27
a. Six semester hours must be selected in each of two of the following fields: economics, geography, history, political science, and sociology (including anthropology).	
b. The remaining 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.	

I. 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 or she supervises student teachers.
 - b. Any fifteen (15) or more semester hours completed from the required areas in 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. Educational Administration 606 or Curriculum and Instruction 609, 610-3 hrs.
3. Shall hold a valid professional license endorsed for the specialization(s) in which he or she 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 or she supervises student teachers.
5. Shall be recommended by the Coordinator of Student Teaching at Marshall University, after he or she has completed a minimum of six (6) semester hours including Curriculum and Instruction 678.

COURSES

520. SPECIAL EDUCATION: INTRODUCTION TO EXCEPTIONAL CHILDREN. 3 hrs. I,II,S.

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

REC: Educational Foundations 319 or equivalent.

521. SPECIAL EDUCATION: BEHAVIORAL CHARACTERISTICS OF EXCEPTIONAL CHILDREN. 3 hrs. I,II,S.

Behavioral characteristics of children with exceptional development, dynamics of family-community interaction, and attitudes toward exceptional conditions. Implications for amelioration and educational planning.

522. SPECIAL EDUCATION: INTRODUCTION TO EDUCATION OF DISADVANTAGED. 3 hrs. I,II,S.

Analysis and exploration of causes of difficulties that accompany the disadvantaged learner. Strategies for structuring learning experiences according to needs will be considered.

523. SPECIAL EDUCATION: INTRODUCTION TO LEARNING DISABILITIES. 3 hrs. I,II,S.

An integrated, concise overview of specific learning disabilities; definitions, etiology; observable and identifiable symptoms and implications for amelioration.

PR: Curriculum and Instruction 520

524. SPECIAL EDUCATION: INTRODUCTION TO EMOTIONAL DISTURBANCES. 3 hrs. I,II,S.

Characteristics of emotional-social disturbances in children; dysfunction in behavior, academic achievement, and social relationships; etiology and educational implications are presented.

PR: Curriculum and Instruction 520 and 521.

525. SPECIAL EDUCATION: ADVANCED CURRICULUM DEVELOPMENT FOR EXCEPTIONAL CHILDREN. 3 hrs. I, II, S.
A study of trends in curriculum development for exceptional children. Directive teaching approaches for children with problems in learning are emphasized.
PR: Curriculum and Instruction 520.
528. SECONDARY EDUCATION: 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. SPECIAL EDUCATION: THE MENTALLY RETARDED CHILD. 3 hrs. I, II, S.
Acquaints teachers with the characteristics and needs of the mentally retarded child. The status of the mentally retarded in our society and the impact of mental retardation on education.
PR: Curriculum and Instruction 520.
540. SPECIAL EDUCATION: STUDENT TEACHING WITH MENTALLY RETARDED CHILDREN. 4 hrs. I, II, S.
All-day supervised teaching in special classes in the public schools Required of all students who are completing curriculum for teachers of mentally retarded children.
PR: Curriculum and Instruction 520 and 533.
541. SECONDARY EDUCATION: LITERARY MATERIALS FOR ENGLISH AND SOCIAL STUDIES. 3 hrs. I, S.
To acquaint teachers of English and social studies with a variety of literary selections suitable for students, grades 7-12.
REC: Foundations 319 or equivalent.
543. ELEMENTARY EDUCATION: TEACHING READING IN ELEMENTARY SCHOOLS. 3 hrs. I, II, S.
Presenting modern techniques and practices in the teaching of reading.
REC: Educational Foundations 319 or equivalent.
544. SPECIAL EDUCATION: CHARACTERISTICS OF CRIPPLED CHILDREN. 3 hrs. I, II, S.
Psychological, social, emotional and educational problems which may accompany crippling conditions.
PR: Curriculum and Instruction 520.
545. SECONDARY EDUCATION: TEACHING READING IN SECONDARY SCHOOLS. 3 hrs. I, II, S.
Principles underlying the teaching of reading in junior and senior high schools.
REC: Educational Foundations 319 or equivalent.
553. SPECIAL EDUCATION: CURRICULUM DEVELOPMENT FOR TEACHERS OF THE MENTALLY RETARDED. 3 hrs. II, S.
Principles and current trends in curriculum development are reviewed and evaluated toward the development of specific curricula for the mentally retarded. Methods and materials are presented in relation to this development.
PR: Curriculum and Instruction 520 or 533 or permission of department chairman.

- 582-583-584-585. SPECIAL TOPICS. 1-4; 1-4; 1-4; 1-4 hrs. I,II,S.
596. SPECIAL EDUCATION: STUDENT TEACHING WITH PUPILS WITH CRIPPLING CONDITIONS. 3 hrs. I,II,S.
Teaching under supervision in cooperating public schools.
PR: Curriculum and Instruction 544 or permission of department chairman.
609. ELEMENTARY EDUCATION: CURRICULUM IN THE MODERN ELEMENTARY SCHOOL.. 3 hrs. I,II,S.
Examination of traditional and current assumptions undergirding the modern elementary school curriculum with emphasis on converting germane theoretical bases into plans for significant curriculum change and modernization.
610. SECONDARY EDUCATION: CURRICULUM IN THE MODERN SECONDARY SCHOOL. 3 hrs. I,II,S.
Analysis of the sociological and political implications which affect secondary school curriculum with an in-depth analysis of current trends and developments in secondary education today.
611. SECONDARY EDUCATION: PRACTICUM IN DIAGNOSIS AND CORRECTION OF READING DIFFICULTIES. 3 hrs. S.
Clinical experience in teaching reading for teachers in the secondary schools with emphasis on skills and understandings necessary for teaching remedial reading.
PR: Curriculum and Instruction 637.
615. EARLY CHILDHOOD EDUCATION: EARLY CHILDHOOD EDUCATION. 3 hrs. I,S.
An overview of principles, objectives, and practices in programs for the education of the young child. Restricted to students not majoring in Early Childhood Education.
618. ELEMENTARY EDUCATION: INFORMAL LEARNING IN ELEMENTARY SCHOOLS. 3 hrs. I,S.
Informal learning in the elementary school with an emphasis on the significance of natural child development, learning through games and play, and the British model for infant and junior schools.
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.
623. INSTRUCTIONAL MODELS AND ASSESSMENT TECHNIQUES. 3 hrs. I, S..
A study of selected teaching-learning models (Woodruff, Rogers, Skinner, Ausubel) with emphasis on implications for the role of the teacher; assessment and analysis of possible influences of the teacher through a study of interaction analysis, questioning patterns, and teacher appraisal behaviors.
624. ADVANCED INSTRUCTIONAL STRATEGIES. 3 hrs. II, S.
Performance-based laboratory experiences in a micro-teaching clinic dealing with such teaching tasks as varying the stimulus situation, using higher order questions, affecting closing, establishing set, and verbal reinforcement.
PR: Curriculum and Instruction 623.

625. SPECIAL EDUCATION: SUPERVISION. 3 hrs. I, S.
Problems of supervision of programs for the mentally retarded.
Preparation of budgets, state regulations, and school relationship.
PR: Curriculum and Instruction 520, 533, 540, and 553.
626. SPECIAL EDUCATION: DIAGNOSTIC-CLINICAL PRACTICES.
3 hrs. II, S.
Team approach to diagnosis and treatment of exceptional children.
PR: Curriculum and Instruction 520, 540, and 553.
627. SPECIAL EDUCATION: MEDICAL-PSYCHOLOGICAL ASPECTS OF
EXCEPTIONAL CHILDREN. 3 hrs. I, S.
Theoretical and practical approaches to identifying programming
for atypical children. Community resources, from the medical, clinical,
psychological and pathological fields, are utilized.
628. SPECIAL EDUCATION: REHABILITATION TECHNIQUES.
3 hrs. II, S.
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: Curriculum and Instruction 520, 533 or permission of
department chairman.
629. SPECIAL EDUCATION: SEMINAR. 3 hrs. I, II, S.
Research methods and current significant findings in special
education. Guest speakers.
PR: Curriculum and Instruction 520.
630. EARLY CHILDHOOD EDUCATION: PRACTICUM IN
KINDERGARTEN EDUCATION. 3 hrs. I, S.
Supervised experience in teaching kindergarten with a concurrent
seminar in organization and administration.
631. EARLY CHILDHOOD EDUCATION: CURRENT INFLUENCES
ON EARLY CHILDHOOD EDUCATION. 3 hrs. II, S.
A study of recent findings in the behavioral sciences and their
implications for early childhood education.
632. EARLY CHILDHOOD EDUCATION: EARLY CHILDHOOD
PROGRAMS. 3 hrs. I, S.
An examination of past and present programs for young children
with opportunity provided for curriculum development.
PR: Curriculum and Instruction 631.
633. EARLY CHILDHOOD EDUCATION: ADULT INVOLVEMENT IN
EARLY EDUCATION. 3 hrs. II, S.
Ways of communicating and involving paraprofessionals, parents,
volunteers, staff in the education of young children.
PR: Curriculum and Instruction 632.
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. **READING EDUCATION: MODERN ELEMENTARY SCHOOL READING PROGRAM.** 3 hrs. I,S.
Survey, analysis and evaluation of methodology as related to educational objectives, learning theory and principles of human growth and development.
PR: Curriculum and Instruction 543 for elementary teachers.
PR: Curriculum and Instruction 545 for secondary teachers.
637. **READING EDUCATION: DIAGNOSIS AND CORRECTION OF READING DIFFICULTIES.** 3 hrs. II,S.
Study and the causes of reading difficulties, diagnostic devices and techniques, and remedial methods and materials.
PR: Curriculum and Instruction 636 and Educational Foundations 535.
638. **READING EDUCATION: PRACTICUM IN DIAGNOSIS AND CORRECTION OF READING DISABILITIES.** 3 hrs. I,S.
Practical experience in diagnosis and corrective treatment of reading disabilities.
PR: Curriculum and Instruction 637.
639. **READING EDUCATION: SEMINAR: PLANNING, ORGANIZING AND SUPERVISING A READING PROGRAM.** 3 hrs. II,S.
This course is designed as an in-depth study and analysis of the planning and organizing of reading programs at various administrative levels.
PR: Curriculum and Instruction 638 or 611.
640. **LITERATURE.** 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 advisor. Only one registration for Curriculum and Instruction 640 is permitted.
641. **SEMINAR.** 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. **READING EDUCATION: SEMINAR: READING INSTRUCTION FOR INDIVIDUALS WITH SPECIAL NEEDS.** 3 hrs. I,II,S.
Study of research findings, methodology and instructional materials for atypical learners, illiterate adults and others.
PR: Curriculum and Instruction 638 or 611.
645. **SPECIAL EDUCATION: EDUCATION OF PERSONS WITH EMOTIONAL DISTURBANCES.** 3 hrs. II,S.
Recognition of emotional-social disturbances, assessment of educational needs, establishment of programs to implement behavioral change and provide necessary modification in educational programs to remediate learning and behavioral difficulties of children.
PR: Curriculum and Instruction 520.
646. **SPECIAL EDUCATION: FIELD EXPERIENCES: LEARNING DISABILITIES.** 3 hrs. II,S.
Supervised experiences of one semester in field work with children or youth who exhibit symptoms of problems in learning.
PR: Curriculum and Instruction 520, 523, 626 and 647.

647. SPECIAL EDUCATION: EDUCATION OF THE LEARNING DISABLED. 3 hrs. I,S.
Theories, diagnosis, and teaching strategies concerning children who exhibit symptoms of any or several learning disabilities.
PR: Curriculum and Instruction 520
649. SPECIAL EDUCATION: FIELD EXPERIENCES: EMOTIONAL DISTURBANCES. 3 hrs. I,S.
Supervised field experiences (one semester) working with children who exhibit symptoms of emotional disturbances-behavioral disorders.
PR: Curriculum and Instruction 520.
650. SPECIAL EDUCATION: DIAGNOSTIC EVALUATION AND PRESCRIPTIVE TEACHING TECHNIQUES 3 hrs. II,S.
Educational assessment and diagnostic evaluation for remediation-amelioration; advanced course for providing understanding and utilization of evaluation, teacher assessment, and analysis for programming for exceptional individuals.
PR: Curriculum and Instruction 520, 521 and 524
652. SECONDARY EDUCATION: INVESTIGATIONS IN TEACHING ENGLISH IN SECONDARY SCHOOLS. 3 hrs.
Emphasis on specific problems in teaching English rather than general techniques.
656. TEACHING LANGUAGE ARTS. 3 hrs. S.
Current methods and available materials for teaching handwriting, spelling, and oral and written expression.
657. ELEMENTARY EDUCATION: ADVANCED TECHNIQUES IN TEACHING ELEMENTARY MATHEMATICS. 3 hrs. II,S.
Historical, social, psychological, and philosophical foundations of mathematics education; individual investigations of experimental and standard programs and materials in elementary school mathematics, e.g. Nuffield Project, IPI, CAMP, Cuisenaire, EMI, MSG.
REC: Curriculum and Instruction 300 or equivalent.
658. ELEMENTARY EDUCATION: 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: Curriculum and Instruction 657.
667. SECONDARY EDUCATION: TEACHING SOCIAL STUDIES IN SECONDARY SCHOOLS. 2-3 hrs. S.
Plans for teaching social studies with suggestions for procurement and use of materials.
668. SECONDARY EDUCATION: TEACHING BIOLOGICAL SCIENCES. 3 hrs. S.
Methods, materials and techniques for teaching biology using demonstrations and laboratory experiences, projects and reports, field trips, and audiovisual aids. Providing and maintaining equipment.
670. ELEMENTARY EDUCATION: 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. **ELEMENTARY EDUCATION: ADVANCED TECHNIQUES IN TEACHING SCIENCE.** 3 hrs.
Intensive concentration on helping children inquire into the earth, physical, and biological sciences through modern methods and media.
REC: Curriculum and Instruction 307 or equivalent.
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.
681. **THESIS.** 1-6 hrs. I, II, S.
Students completing 681 must defend their thesis in an oral examination.

EDUCATION-FOUNDATIONS (EDF)

Professors Arhelger, Irvin, Khatena, Lichtenstein, Willey
Associate Professors Simpkins, Williams
Assistant Professors Barker, Broadwater, Smith

515. **HISTORY OF MODERN EDUCATION.** 3 hrs. I,II,S.
Our debt to the ancient Hebrews, Greeks, and Romans. Emphasis also is placed upon the movements since the beginning of the Renaissance.
517. **STATISTICAL METHODS.** 3 hrs. I,II,S.
Descriptive statistics, a foundation course in methods and analysis for students in education and social science.
535. **TESTS AND MEASUREMENTS.** 3 hrs. I,II,S.
History, philosophy and elementary statistical methods for testing, measuring and evaluating pupil behavior are studied.
REC: Educational Foundations 319 or equivalent.
560. **PHILOSOPHY OF EDUCATION.** 3 hrs. I,II,S.
Surveys basic philosophy schools and concepts and their application to educational practice.
REC: Educational Foundations 319 or equivalent.
- 582-583-584-585. **SPECIAL TOPICS.** 1-4; 1-4; 1-4 hrs. I,II,S.
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 HUMAN DEVELOPMENT.** 3 hrs. I,II,S.
The nature of human growth and development from infancy to adulthood.
619. **EDUCATIONAL PSYCHOLOGY.** 3 hrs. I, or II,S.
Study of learning theories and their application to teaching.
621. **EDUCATIONAL RESEARCH AND WRITING.** 3 hrs. I,II,S.
Research methods and techniques and their application.

640. LITERATURE. 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 this course is permitted.

641. SEMINAR. 2-3 hrs. I,II,S.

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

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.

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; students must complete an additional 33 credit 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 as 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.

EDUCATIONAL MEDIA (EDM)

Associate Professors Felty (chairman), Theis

Requirements for the school librarianship curriculum are listed under Education-Curriculum and Instruction, Library Science Education.

501. HISTORY OF BOOKS AND LIBRARIES. 3 hrs.

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

504. BOOK SELECTION FOR CHILDREN. 3 hrs. II.

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.

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

510. FOUNDATIONS OF MASS COMMUNICATIONS. 3 hrs. I.
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 librarians, educational media specialists, and other communications personnel.
550. LIBRARY PRACTICE (FIELD WORK). 3 hrs. I,II,S.
Experiences in the application of techniques of library service, adapted as far as possible to the student's needs.
PR: Fifteen hours of library science.
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 when approved.
565. UTILIZATION OF EDUCATIONAL MEDIA. 3 hrs. I,II,S.
Utilization of educational media materials, equipment, and techniques.
566. PRODUCTION OF AUDIOVISUAL AIDS. 3 hrs. I,S.
Basic techniques in making slides, photographs, dry and wet mountings, transparencies, posters, charts, and similar graphic instructional materials.
582. SPECIAL TOPICS. 1-4 hrs. I,II,S.
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.
Survey of elementary and secondary school curricula with emphasis on materials which enrich the teaching of various subjects.
610. ADMINISTRATION AND OPERATION OF LIBRARIES. 3 hrs.
Introduction to the fundamental processes and activities of various types of libraries including the purposes and relationships of routines and records.
612. AUDIOVISUAL ADMINISTRATION AND SUPERVISION.
3 hrs. II,S.
Theory and practice related to financing, maintaining, and improving audiovisual programs; based upon internship activities in one or more audiovisual or media center.
PR: Six hours of work in educational media or permission of instructor.
615. ADVANCED REFERENCE. 3 hrs.
Study of specialized reference tools.
REC: Educational Media 315 or equivalent.
620. ADVANCED CATALOGING AND CLASSIFICATION. 3 hrs.
Covers Library of Congress and Dewey Decimal classification systems. Practice in detailed descriptive and subject cataloging of special materials, including non-print materials.

621. **EDUCATIONAL MEDIA RESEARCH AND WRITING.** 3 hrs. II.
Materials and methods of research useful for librarians, audiovisual, and educational media supervisors.
630. **TECHNICAL PROCESSES.** 3 hrs.
Methods of acquisition, processing routines in preparation work, conservation and circulation of print and non-print 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: Educational Media 615.
640. **READINGS IN EDUCATIONAL MEDIA.** 3 hrs. I,II,S.
Readings and reports on significant publications in the educational media field, stressing print, non-print, or both types of media. 640 may only be taken once.
641. **SEMINAR.** 3 hrs.
Supervised program of readings, reports, and individual and group projects.
PR: Six hours of graduate work in educational media or equivalent field experience as approved by the instructor.
679. **PROBLEM REPORT IN EDUCATIONAL MEDIA.** 3 hrs. I,II,S.
Preparation of a written, filmed, graphic or similar research project. Must be completed by those who later enroll for EDM 681, Thesis, but is not restricted to such persons.
PR: Six hours of graduate work in educational media or equivalent field experience as approved by the instructor.
681. **THESIS IN EDUCATIONAL MEDIA.** 3 hrs. I,II,S.
Available only to those whose work in EDM 679 or equivalent was exemplary and worthy of expansion. The theses must be defended in an oral examination. Successful completion of EDM 679 and EDM 681 reduces the total credit hours required for the degree by three hours.
PR: EDM 679 or equivalent.

EDUCATION-VOCATIONAL TECHNICAL (VTE)

Professor Jones (chairman)
Associate Professor Moore
Assistant Professors Allen, Harris, L. Olson

The program for the Master of Science degree with a major in Vocational-Technical Education prepares individuals for an effective role in vocational education. The student's goals, educational and experiential qualifications, and the nature of vocational education are used to select courses for each student's program of graduate study. Students admitted must have or qualify for a professional teaching certificate.

The following plan provides a framework for an individualized program of study.

	Hours
Minimum requirements	32-36
1. Vocational-technical education	18
(Must include Vocational-Technical Education 500 and 660).	

2. Minor field(s)12
A total of nine hours in a single discipline, plus 3 hours electives, or 6 hours in each of two disciplines. The minor field(s) should be related to the student's program of studies. Minor field(s) may be selected in: Anthropology, Economics, Guidance, Media, Political Science, Public School Administration, Sociology, Special Education, or Statistics.
3. Thesis or electives 2-9
Application for admission to candidacy should be made by the student after the completion of 12 semester hours and before completing 18 semester hours. To be eligible to apply for admission to candidacy the student must possess a 3.0 grade point average in the graduate courses applicable to the degree program. Approval for admission to candidacy will be made by the student's graduate committee which must include the student's adviser and the department chairman.
500. PHILOSOPHY OF VOCATIONAL EDUCATION. 3 hrs.
An overview of the historical origins of vocational education and their relationship to major educational philosophies; study of the philosophical foundations of each area of vocational education; analysis of questions fundamental to an overall philosophy of vocational education.
506. VOCATIONAL EDUCATIONAL LEGISLATION. 3 hrs.
An overview of the historical evolution of vocational education legislation; analysis of the Vocational Education Act of 1963 and the Vocational Amendments of 1968 as they relate to state and local planning of occupational education programs.
510. DEVELOPING INSTRUCTIONAL MATERIALS FOR OCCUPATIONAL COURSES. 3 hrs.
Study of procedures for analyzing an occupation to identify essential knowledge and skills; use of the analysis to develop behavioral objectives and an instructional plan for a specific occupation, with emphasis on innovative and multimedia approaches to facilitate student achievement of the stated objectives to a specified level.
520. PRINCIPLES AND PRACTICES IN COOPERATIVE EDUCATION. 3 hrs.
Study of principles for planning, implementing, and evaluating a cooperative program within the various categorical service areas of vocational education; analysis of factors which must be considered in selection of the cooperative design for certain educational levels and for student groups with special needs.
522. COORDINATION OF COOPERATIVE PROGRAMS IN VOCATIONAL EDUCATION. 3 hrs.
Study of the types of data needed for planning a cooperative program within one or more service areas of vocational education, operational procedures for implementing the plan, and techniques for evaluating the program and individual progress; each student will conduct a study of the community to identify appropriate work stations for a specified level and develop a detailed plan for utilization of such facilities; for maximum credit, the student will implement and evaluate the program he designed throughout an academic year.
530. OCCUPATIONAL EDUCATION FOR THE DISADVANTAGED. 2 to 3 hrs.
Study of conditions which mitigate against success in school for

students of all ages; emphasis on the potential of occupational education programs for assisting such students to achieve a level of employability and to achieve a higher level of academic achievement through materials related to personal interests and employment goals; emphasis on cooperative planning and teaching involving academic teachers and counselors. Implementation of a plan for maximum credit.

579. PRACTICUM IN OCCUPATIONAL EDUCATION PROGRAMS. 1-4 hrs.

Individually designed to provide field experience under supervision of the faculty, such experience to be related to the student's projected role in vocational education (instruction, administration program planning, research).

582-583-584-585. SPECIAL TOPICS IN VOCATIONAL-TECHNICAL EDUCATION. 1-3 hrs.

Concentrated study of a special topic in vocational or technical education, to be selected cooperatively by student and faculty adviser; hours of credit to be determined by magnitude of the project and number of hours commitment the student makes to its completion.

600. SUPERVISION OF VOCATIONAL EDUCATION PROGRAMS. 3 hrs.

Study and application of basic principles of supervision to vocational education at the state, system, and institutional levels; identification of specific supervisory responsibilities required at the secondary and postsecondary levels, and functional differences in full-time and part-time types of vocational programs.

602. ADMINISTRATION OF OCCUPATIONAL EDUCATION PROGRAMS. 3 hrs.

Study of federal and state legislation related to vocational education, to identify those elements which affect local administration of vocational programs; emphasis on administrative responsibilities in relation to planning, implementation, and evaluation of vocational programs.

606. DEVELOPING A LOCAL PLAN FOR VOCATIONAL EDUCATION. 3 hrs.

Analysis of factors which must be considered in developing a local plan for vocational education, with emphasis on implication of the state plan and federal guidelines; study of factors and influences which impinge upon the program during the implementation phase; development of one or more procedures for evaluating the total program.

640. LITERATURE OF VOCATIONAL-TECHNICAL EDUCATION. 3 hrs.

A program of reading, either extensive or intensive, and reports on specific areas of vocational education or particular problems within an area of vocational-technical education; reading selected cooperatively with adviser. Limited to three semester hours.

660. VOCATIONAL EDUCATION AND MANPOWER NEEDS. 3 hrs.

Study of the sources of data on manpower needs and employment opportunities; relationship to planning techniques for conducting a community survey, organizing data for computer analysis, and applying the findings to the decision-making and planning processes.

662. OCCUPATIONAL EDUCATION AND THE COMMUNITY. 3 hrs.

Study of community organization and the relationship of the

vocational education program to the occupational structure of the community; consideration of models for analyzing employment opportunities and occupational training needs and of the processes involved in securing community involvement and commitment.

670. RESEARCH APPLICATION IN OCCUPATIONAL EDUCATION.
3 hrs.

A study of methodology, application, analysis and synthesis of research in occupational education. A review of current occupational education studies, clustered by areas, with attention to statistical techniques, data collecting, data handling, and the audience and impact of particular projects and research organizations.

674. EVALUATION IN OCCUPATIONAL EDUCATION. 3 hrs.

Study of the concepts and methods of occupational education evaluation, with attention to techniques for determining the extent to which educational goals are being achieved, to locate the barriers to advancement of these goals, and to discover the consequences of educational programs.

681. THESIS. 3-6 hrs.

Individual research on a specific problem of concern to the student and of significance to occupational education.

ENGLISH (ENG)

Professors Brown, Mitchell, Sullivan, Tyson, Williams
Associate Professors Adkins, Chapman, Fei, Gerke, Hart, Pittman, Wooden
Assistant Professors Deutsch, Ramsey, Ten Harnsael

Admission to Candidacy and Major Degree Requirements

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 candidate for the Master of Arts in English must select an area of specialization. The areas include linguistics, Medieval literature, Renaissance literature, Eighteenth century literature, Nineteenth century literature, American literature, Modern literature, and criticism. The candidate may complete his specialization by taking three courses in an area or by taking two courses and writing a thesis in an area. In addition to this specialization each candidate must take at least one course in four other areas.

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 but may be asked to take undergraduate courses suggested by the department before admission to candidacy for the degree. A minimum of six hours of college credit in a foreign language or demonstrated reading ability is required for admission to candidacy.

English 630 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.

To complete his work for the Master's degree in English the candidate must take 36 hours of course work or, if he writes a thesis, 32 hours, six of which may be earned by the writing of the thesis. The required grade average is 3.0 (B), and the candidate must pass a comprehensive examination upon the completion of his course work.

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

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.
515. VICTORIAN POETRY. 3 hrs.
Emphasis on Tennyson, Browning, Arnold, Hopkins, Hardy and the pre-Raphaelites.
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.
Non-dramatic 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 NON-DRAMATIC LITERATURE OF THE SIXTEENTH CENTURY. 3 hrs.
Non-dramatic prose and poetry including Sidney, Spenser, Lyly, Dekker, Lodge, Nash, Greene and Bacon.
538. ENGLISH NON-DRAMATIC LITERATURE OF THE SEVENTEENTH CENTURY. 3 hrs.
Non-dramatic prose and poetry of the period.
540. AMERICAN LITERATURE FROM 1800 TO 1855. 3 hrs.
Prose and poetry of Bryant, Irving, Poe, Hawthorne, Emerson, Thoreau, and their contemporaries.
541. AMERICAN LITERATURE FROM 1855 TO 1925. 3 hrs.
Study of major American poetry and non-fictional prose of the late nineteenth and early twentieth centuries. Whitman, Dickinson, and others.
542. AMERICAN NOVEL TO 1900. 3 hrs.
Historical and critical study from the beginnings.

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.
576. **MODERN GRAMMAR.**
A descriptive analysis of the structure of present day American English, utilizing the basic theory of generative transformational grammar.
PR: English 575.
- 580-581-582-583. **SPECIAL TOPICS.** 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.
604. **THE ENGLISH LANGUAGE TO THE EARLY MODERN PERIOD.** 3 hrs.
The development of English sounds, grammar, syntax and vocabulary from selected texts. Emphasis is upon middle English and the transitional period to early modern English, especially in the areas of dialect and vocabulary.
605. **THE ENGLISH LANGUAGE FROM THE EARLY MODERN PERIOD.** 3 hrs.
An examination of early modern and 18th century English sounds, grammar, syntax and vocabulary from selected texts, illustrating the literary uses of language and the development of grammatical theory.
609. **MILTON.** 3 hrs.
Biographical and critical study, including Milton's English poetry and prose, and his literary and intellectual milieu.
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.

611. INDEPENDENT READINGS. 3 hrs.
Independent readings and research. Open only to students with an M.A. degree with a major in English or English Education.
616. ESSAYISTS OF THE 19TH CENTURY. 3 hrs.
620. CONTEMPORARY DRAMA. 3 hrs.
Major British and American dramatists since 1870.
624. CONTEMPORARY BRITISH NOVEL. 3 hrs.
Major British novelists of the twentieth century.
625. CONTEMPORARY AMERICAN NOVEL. 3 hrs.
Major American novelists of the twentieth century.
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 Master of Arts degree with a major in English.
640. TEACHING COLLEGE ENGLISH. 3 hrs.
Required for graduate assistants in English.
679. PROBLEM REPORT. 1-3 hrs.
681. THESIS. 1-6 hrs.

GEOGRAPHY (GEO)

Professor Clagg (chairman)
Assistant Professors Adkins, Gillenwater

Admission to Candidacy and Degree Requirements

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 graduate studies to the doctoral level.

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 to the program.

In general, requirements for admission to candidacy are identical with those required by the Graduate School, except that the department may require a qualifying examination. Requirements for the Master's degree consist of meeting the general requirements and completing not fewer than 24 hours in geography. At least one-half of the hours must be earned in 600 series courses. The degree of Master of Arts or Master of Science may be earned and is largely determined by the selection of courses in the minor field.

Hours

A major must include:

Geography 529 and 530	6
Geography 505 or 605	3
Geography 603	3
Geography 602 or 604 or 608	3

- Geography 6203
Geography 606 or 6093
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.
A systematic and regional survey of world political problems and international relations stressing studies of the United States, Europe, and the Soviet Union.
508. GEOGRAPHY OF MEXICO. 3 hrs.
Regional study of the relation of man's activities of the natural environment.
509. GEOGRAPHY OF CANADA. 3 hrs.
Regional study of the relation of man's activities to the natural environment.
510. URBAN GEOGRAPHY. 3 hrs.
Study of city function, patterns, past and current problems confronting the city including planning, zoning, housing, and urban renewal.
512. GEOGRAPHY OF SOVIET LANDS. 3 hrs.
Russian agriculture, grazing, mining, industry, and transportation examined in environmental terms.
513. GEOGRAPHY OF BRITISH ISLES. 3 hrs.
Climate, minerals, and land forms considered in explaining economic activities.
520. FIELD GEOGRAPHY OF WEST VIRGINIA. 3 hrs.
Type areas in lumbering, mining, agriculture, and industry studied through field methods.
525. CLIMATOLOGY. 3 hrs.
A study of elements of weather and climate, methods of climatic classification, and distribution and characteristics of world climatic regions.
529. MAP INTELLIGENCE AND PROJECTIONS. 3 hrs.
Principles and practice in construction of map grid, relation of maps to compass, use of drafting equipment, and understanding of earth features as shown on maps.
530. APPLIED CARTOGRAPHY. 3 hrs.
Map making with regard to projection selection, source materials, compilation, restitution, and air photo interpretation.
PR: Geography 529 or permission of instructor.

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 (GLY)

Professor Rogers (chairman)
Assistant Professors Bailey, Bonnett, Sanderson

DEGREES OFFERED

MASTER OF SCIENCE (PHYSICAL SCIENCE): This degree program, offered in cooperation with the Departments of Chemistry and Physical Science and Physics, is intended to provide a broadly based advanced science program for individuals whose undergraduate program in science lacks depth or breadth. Programs will be designed to meet individual needs. The writing of a thesis is optional. Specific degree requirements are listed in the section: Physical Science and Physics.

MASTER OF ARTS (PHYSICAL SCIENCE): This degree program, offered in cooperation with the Departments of Chemistry, Physical Science and Physics,

and Curriculum and Foundations, is intended to meet the needs of public school teachers (1-12). Programs will be designed to meet individual needs. Specific degree requirements are listed in the section: Education-Curriculum and Instruction, Secondary Education.

In addition, the Department offers coursework leading to a minor in Geology which is appropriate to the programs in Biological Sciences, Chemistry, Geography and Physical Science.

500. SPECIAL TOPICS AND RESEARCH IN GEOLOGY. 1-4 hrs. I, II, S.
Independent field and/or laboratory research in a selected phase of the major or minor field. Majors and minors only.
PR: 10 hrs. of Geology.
515. ANALYTICAL MINERALOGY. 4 hrs. II, Alternate years (even numbers)
A study of the internal symmetry, bonding a structure, and crystal chemistry of minerals by analytical methods. 3 lec.-2 lab.
PR: Geology 314 or consent.
518. INVERTEBRATE PALEONTOLOGY. 3 hrs. I., Alternate years (even numbers)
Taxonomy and morphology of the major invertebrate phyla with an introduction of biometrics as applied to paleontology. 2 lec.-2 lab.
REC: Geology 201 and 325 or Zoology 212 or equivalent.
521. PETROLOGY. 4 hrs. I. Alternate years (even numbers)
Identification and classification of igneous, sedimentary and metamorphic rocks, their origin and occurrence; their geologic and economic. 2 lec.-4 lab.
PR: Geology 200, Geology 314 or consent.
522. ECONOMIC GEOLOGY. 4 hrs. II., Alternate years (odd numbers)
Origin, distribution and economics of the metallic and non-metallic ore deposits. 3 lec.-2 lab.
REC: Geology 201, 314, or equivalent.
523. SEDIMENTARY PETROGRAPHY. 3 hrs. II., Alternate years (even numbers)
Megascopic and microscopic identification and a depositional and post-depositional interpretation of the sedimentary rocks. 2 lec.-2 lab.
REC: Geology 201 and 314 or equivalent.
525. GEOCHEMISTRY. 4 hrs. I., Alternate years (even numbers)
Introduction to the principles of geochemistry. The application of elementary chemistry to geologic problems. 3 lec.-2 lab.
REC: Geology 200, Geology 210 or equivalent.
526. GEOPHYSICS. 3 hrs. II, Alternate years (odd numbers)
Development of seismic, gravity, magnetism, electrical and thermal methods to study the structure and dynamics of the earth.
PR: Geology 201, Physics 203, Mathematics 131.
551. PRINCIPLES OF GEOMORPHOLOGY. 3-4 hrs.
Principles of identification and analysis of the world's surficial features in terms of stratigraphy, structure, processes, tectonics and time. 3 lec.-2 lab. (optional)
REC: Geology 200, Geology 210 or equivalent.

552. REGIONAL GEOMORPHOLOGY. 3 hrs. II., Alternate years (odd numbers)
Description and classification of North America surface morphology and its relationship to bedrock; climate, processes and history. 3 lec.
REC: Geology 451 or equivalent.
560. EARTH SCIENCE I. 4 hrs.
A presentation through both laboratory and lecture of the basic concepts of astronomy, earth processes, and time and earth development. 10 lec.-10 lab., one all-day field trip per week. Open only to Institute participants.
561. EARTH SCIENCE II. 1 hr.
This course is designed to reinforce the material presented during the summer by 8 monthly seminars and 8 workshops at the teaching center of 3-4 hours each, and as practical classroom visitations by the Institute staff. Open only to Institute participants.
PR: Geology 560.

HEALTH AND PHYSICAL EDUCATION

See Physical Education

HISTORY (HST)

Professors Moffat (chairman), Weill, Woodward
Associate Professors Aldred, Gould, Hemphill
Assistant Professor Galgano

Admission to Candidacy

A student pursuing the Master of Arts degree in history must apply for admission to candidacy in the semester or term immediately following the semester or term in which 12-15 hours of Marshall University graduate credit are completed. To be considered for admission to candidacy a student must have earned a quality point average of at least 3.0 (B) on all graduate work applicable to the degree. The application, bearing a record of courses completed, must be made on a form secured from the Graduate School Office.

General Requirements for the Master's Degree

A history 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. The student must enroll in History 681 Thesis 1-6 hours, for which he is allowed not more than 6 hours of credit. A history student whose program does not require a thesis must complete 36 hours of graduate course work.

A minimum of 18 hours must be earned in the major field and a minimum of 6 hours in a minor field. On recommendation of the Graduate Dean the requirement of a minor may be waived. History students are required to complete History 618 (Methodology). Students must earn credit hours in as many "600 level courses" as in "500 level courses."

It is recommended that a student earn credit hours in a wide distribution of historical areas and periods taught by a broad diversity of instructors.

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.

- 506-507. SPECIAL PROBLEMS. 3; 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 1914 TO PRESENT. 3 hrs.

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

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

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

528. INTELLECTUAL AND CULTURAL HISTORY OF MODERN EUROPE. 3 hrs.

A survey of the main currents in European thought and culture in the nineteenth and twentieth centuries.

532. THE UNITED STATES SINCE 1914. 3 hrs.

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

602. STUART ENGLAND 1603-1714. 3 hrs.

An analysis of the Social, Intellectual, Economic, Cultural, and Political History of England in the Stuart Century.

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.

607. PROBLEMS IN EUROPEAN HISTORY, 1890-1923. 3 hrs.

An analysis of the politics, diplomacy and military strategy of the period of the First World War. Special emphasis is given to the origin of the war, the war itself, the peace settlement and the Russian Revolution and its aftermath.

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

610. READINGS IN HISTORY. 2-3 hrs.

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.

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.

The impact of outstanding men and women upon American history from 1865 to the present.

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 WORK. 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, 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 (HEC)

Professor Bennett (chairman)
Associate Professors Blankenship, Vickers

The Master of Arts degree in home economics requires 32 semester hours of graduate work, of which not more than 6 hours may be earned by a thesis. If a thesis is not submitted, a minimum of 36 hours of course work must be completed. Each graduate is expected to conduct independent research through a special problem and problem report or thesis.

A minimum of 18 hours in home economics is required, including Home Economics 600. The remaining hours are to be planned to meet the individual student's professional needs.

One or two minors with a minimum of 6 hours in each are required. Suggested minors include Education, Sociology, Economics, or Business Administration (Management).

501. MATERNAL AND CHILD NUTRITION. 3 hrs.
Nutritional requirements during prenatal and early growth periods; surveys of nutritional status.
502. FOODS OF THE WORLD. 3 hrs.
Characteristics and cultural aspects of the foods of Europe, Mid East and Far East.
REC: Home Economics 203 or equivalent.
503. ADVANCED NUTRITION. 3 hrs.
Metabolism of food nutrients as related to nutritional requirements of man. Reports of current research and other topics to add depth and perspective in nutrition.
REC: Chemistry 300 or equivalent.
505. QUANTITY FOOD SERVICE. 3 hrs.
Basic principles of quantity food selection, preparation, and service. Laboratory application in local food institutions.
REC: Home Economics 110 and 203 or equivalent.
506. METHODS IN ADULT HOME ECONOMICS EDUCATION. 3 hrs.
Vocational home economics at the secondary, post secondary and adult levels with emphasis on types and organization of programs, legislation, and groups served.
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.
REC: Home Economics 110 and Chemistry 204 or equivalent.
515. **FAMILY RELATIONSHIPS.** 3 hrs.
Relationships in the family during its life cycle, with some consideration of family life in other cultures.
516. **PRENATAL AND INFANT CARE.** 3 hrs.
Prenatal and postnatal care for mothers, development of the fetus and care of the infant to two years of age.
519. **TAILORING.** 3 hrs.
Contemporary methods of custom tailoring with emphasis on suitable fabric and construction processes for particular styles.
REC: Home Economics 213 or equivalent.
520. **HOUSEHOLD EQUIPMENT.** 3 hrs.
Principles underlying the selection, care and use of household equipment.
527. **HOME MANAGEMENT LABORATORY.** 3 hrs.
Home management laboratory to develop competencies in decision making, activity analyses, use of limited resources, and work simplification through individual and group analysis.
REC: Home Economics 358 or equivalent.
531. **DEVELOPMENT AND GUIDANCE OF THE YOUNG CHILD.** 3 hrs.
Techniques of guidance of young children with emphasis on adult child interaction.
540. **NUTRITION IN THE HOME AND SCHOOL.** 3 hrs.
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 hrs.
Workshop in selected areas of home economics. Credit for not more than two workshops may be counted for the master's degree.
600. **PHILOSOPHY AND TRENDS IN HOME ECONOMICS.** 3 hrs.
Major contemporary educational theories and their relationship to trends in the field of home economics.
PR or CR: Educational Foundations 621.
601. **EVALUATION IN HOME ECONOMICS.** 3 hrs.
Procedures for appraising student progress in the attainment of objectives; construction of evaluation instruments; analysis and interpretation of data.
602. **CURRICULUM DEVELOPMENT IN HOME ECONOMICS.** 3 hrs.
Examination of bases for home economics curricula; development

of curricula for junior and senior high school programs, utilizing various organizational patterns.

605. RECENT DEVELOPMENTS IN CLOTHING. 3 hrs.
Survey of recent literature and theory in the field of clothing.
606. RECENT DEVELOPMENTS IN FOODS. 3 hrs.
Survey of recent literature and theory in the field of foods.
607. FUNCTIONS OF NUTRIENTS. 3 hrs.
Metabolic functions, determination of requirements and inter-relations of proteins, vitamins, minerals and energy sources.
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 561 or 3 hrs. economics.
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 527.
679. PROBLEM REPORT. 1-3 hrs.
681. THESIS. 1-6 hrs.
- 684-685. SPECIAL PROBLEMS IN HOME ECONOMICS. 1-3; 1-3 hrs.
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.

JOURNALISM (JRN)

Professor Leaming (chairman)

The program for the Master of Arts in Journalism degree 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 540, 601 and 602 to provide a foundation of theory and research methods as applied in mass communications. However, a student who has received credit for Journalism 440 at Marshall University or for a similar course in "Mass Communication and Society" at another university on the undergraduate level cannot receive graduate credit for Journalism 540. An alternate course will be selected by the student in consultation with his adviser.

A student may 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.

500. NEWS PHOTOGRAPHY II. 3 hrs.

A course in advanced techniques for newspaper and magazine photography, concentrating on the creation of, design and use of photographic essays and picture stories.

PR: Journalism 360.

525. ADVERTISING STRATEGY AND THE COMMUNICATIONS PROCESS. 3 hrs.

Principles and concepts of advertising strategies as communications processes applied to consumerism, salesmanship, promotions and campaigns.

528. HIGH SCHOOL PUBLICATIONS. 3 hrs. I, II, S.

A study of high school newspapers and yearbooks; practical experiences in writing for school publications. Designed primarily for Teachers College English majors but open to students of all colleges.

530. MAGAZINE ARTICLE WRITING. 3 hrs. I, II.

Fundamentals of researching and writing popular, factual magazine articles; techniques of selling articles to magazines.

540. MASS COMMUNICATION AND SOCIETY. 3 hrs. I, II.

Study of the interaction between the mass media and other social institutions, and between the media and the government; problems and responsibilities of the media in social change. Primary emphasis on print media. Required of all majors.

601. THEORY OF MASS COMMUNICATIONS. 3 hrs. I, S.

Major theoretical concepts in mass communications are studied as a basis for understanding the communications process and the institutional impact of the mass media on the individual and on society. Required of all majors.

602. MASS COMMUNICATIONS RESEARCH AND METHODOLOGY. 3 hrs. II.

Research techniques applied to problems of mass communications including computer applications, with emphasis on mastery gained by participation in specialized research projects. Required of all majors.

603. PROFESSIONAL MEDIA INTERNSHIP. 3 hrs.

For those with no professional experience in mass communications, an internship will be arranged to provide a minimum of 16 hours of professional experience per week. For those with professional experience, the internship will be specialized study or research project.

605. INTERNATIONAL COMMUNICATIONS. 3 hrs. I, S.

Overview of mass media internationally; comparative evaluation of free, authoritarian and communist communications systems, with special attention given to the underlying theories which have produced them.

606. DEPTH REPORTING. 3 hrs.

In-depth reporting of social and environmental activities and problems, with emphasis on thorough research and documentation. Stories will be submitted for publication.

608. SEMINAR IN ADVERTISING RESEARCH. 2 hrs. I or S.
Lectures, readings, and discussions relating to all media advertising. Students may select special areas of interest.
609. SEMINAR IN PUBLIC RELATIONS. 3 hrs. II or S.
Theoretical and practical aspects of public relations, with special projects and readings to provide skills and insights requisite to success in the profession. Seminar discussions and research projects.
610. MAGAZINE EDITORIAL PRACTICES. 3 hrs.
Study of the organization and functions of the magazine editorial department, with practice in planning magazine content, laying out pages and establishing production procedures.
611. MOTION PICTURE PRODUCTION AND EDITING. 3 hrs. I, II.
Planning and production of motion picture segments.
REC: Journalism 350, 351, and 360 or equivalent.
612. HISTORY OF MASS COMMUNICATIONS, SPECIALIZED STUDY.
3 hrs. I, II.
Analysis of mass media development in the United States and of current media problems, with emphasis on research.
REC: Journalism 300 or equivalent.
614. CRITICAL FUNCTION OF THE MASS MEDIA. 2 hrs.
Examination of the critical function of the mass media; practice in writing critical reviews and evaluations of literary works, theatrical productions, motion pictures, artistic and musical works.
- 650-651. SPECIAL TOPICS. 1-3, 1-3 hrs.
Independent studies or projects in areas of interest to the student, conducted under the direction of a faculty member and taught by arrangement. Projects and studies may include mass communications research studies or special group field projects.
681. THESIS. 1-6 hrs.
PR: Consent of the advisor.

LIBRARY SCIENCE EDUCATION

Offered by the Department of Educational Media. For degree requirements, see the section: Education-Curriculum and Instruction, Library Science Education.

MATHEMATICS (MTH)

Professors Bauserman, Hogan (chairman)
Associate Professors Sisarcick, Thompson, Whitley
Assistant Professors Cusick, D. Fields, J. Fields,
Greenough, Lancaster, Pankin, Peele

The Master of Arts degree with a major in mathematics is offered by the Department of Mathematics to meet the needs of various individuals. Course

offerings may be used to satisfy requirements in the Education-Curriculum and Instruction programs of Elementary Education and Secondary Education, or to satisfy minor requirements in other programs of the Graduate School.

Master of Arts Degree With A Major in Mathematics

The student who expects to earn the Master of Arts degree with a major in mathematics should have completed an undergraduate major in mathematics with a minimum of 18 semester hours credit above the level of an elementary calculus sequence, or he should have completed the equivalent of such preparation.

Upon completion of at least 12 hours of Marshall University graduate credit in mathematics, the student may file application for admission to candidacy with the Dean of the Graduate School. Approval of such admission will be recommended provided the student has earned a quality point average of 3.0 (B) in all completed graduate courses applicable to his program.

The following departmental requirements must be satisfied. A minimum of 36 hours credit is required. If the student decides to write a thesis, the minimum is 32 hours, including not more than 6 hrs. for the thesis. A minor of 6 hours credit in any area is required, but may be waived on recommendation of the Chairman of the Department of Mathematics and concurrence of the Dean of the Graduate School. At least 6 hours credit, selected in consultation with the student's adviser, must be earned in each of three of the areas of algebra, topology, geometry, and analysis. At least 18 hours, excluding thesis, must be earned in mathematics courses numbered 600 to 699.

The final (oral) comprehensive examination is administered by a committee of three members of the graduate faculty in mathematics, including the student's adviser. The student who fails to pass the comprehensive examination on a given attempt may be asked to enroll in courses as determined by his committee before taking the examination again.

500. **STRUCTURE OF ALGEBRA.** 3 hrs.

Emphasis on the language of Modern Elementary Algebra. Recommended for pre-service elementary teachers and for elementary and secondary in-service teachers. May not be used for either a mathematics specialization (grades 7-12) or for a degree offered by the Department of Mathematics.

501. **STRUCTURE OF MODERN GEOMETRY.** 3 hrs.

Informal development of geometry. Recommended for pre-service elementary teachers and for elementary and secondary in-service teachers. May not be used for either a mathematics specialization (grades 7-12) or for a degree offered by the Department of Mathematics.

527. **ADVANCED CALCULUS I.** 4 hrs. I.

The number system, limits, sequences, partial differentiation with applications, maxima and minima of functions of several variables.

REC: Elementary calculus or equivalent.

528. **ADVANCED CALCULUS II.** 4 hrs. II.

Theory of definite integrals, multiple integrals, line and surface integrals, improper integrals, infinite series.

PR: Mathematics 527 or equivalent.

530. **VECTOR AND TENSOR ANALYSIS.** 3 hrs.

The algebra of vectors, the calculus of vectors with applications, introduction to tensor analysis.

REC: Elementary calculus or equivalent.

543. NUMERICAL ANALYSIS. 3 hrs.
The theory and technique of numerical computation involving interpolation methods, solution of systems of equations, and methods of solving ordinary differential equations.
REC: Elementary calculus or equivalent.
- 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.
REC: Elementary calculus or equivalent.
548. FUNDAMENTAL CONCEPTS OF MODERN GEOMETRY. 3 hrs. I.
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.
REC: Mathematics 231 or equivalent.
- 550-552. FUNDAMENTAL CONCEPTS OF MODERN ALGEBRA.
3; 3 hrs. I, II.
Structure of the abstract mathematical systems; groups, rings, fields, with illustrations and applications from Number Theory.
REC: Mathematics 231 or equivalent.
- 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.
REC: Elementary calculus or equivalent.
- 610-611. MODERN ALGEBRA. 3; 3 hrs.
The structure of semigroups, groups, rings, fields, modules, vector spaces, lattices and related topics.
PR: Mathematics 550 or equivalent.
620. NON-EUCLIDEAN GEOMETRY. 3 hrs.
A study of the historical development of Non-Euclidean Geometries, followed by a detailed study of these geometries.
621. PROJECTIVE SPACES. 3 hrs.
An introduction to current work on projective planes through a study of the real projective plane. A study of synthetic and analytic projective spaces through theorems concerning the connections between their structures. Some finite geometries.
REC: Undergraduate modern and linear algebra.
- 630-631. TOPOLOGY. 3; 3 hrs.
General topology including separation axioms, connectedness, compactness, convergence, continuity, metric spaces, product and quotient spaces.
PR: Undergraduate topology or Mathematics 528 or equivalent.
- 640-641. THEORY OF FUNCTIONS OF COMPLEX VARIABLES. 3; 3 hrs.
A study of algebra, topology, and geometry of the complex plane; holomorphic functions; conformal mappings; analytic functions and analytic continuation; complex integration; representation theorems; convergence theorems and related topics.
PR: Mathematics 528 or Mathematics 561 or equivalent.

- 650-651. **THEORY OF FUNCTIONS OF REAL VARIABLES.** 3, 3 hrs.
A study of measure and integration and related topics.
PR: Mathematics 528 or equivalent.
660. **STOCHASTIC PROCESSES.** 3 hrs.
Theory and applications of Markov chains.
PR: Undergraduate probability and statistics.
665. **OPTIMIZATION MATHEMATICS.** 3 hrs.
Classical optimization of functions of one or more variables, theory and methods of linear and nonlinear programming.
PR: Undergraduate linear algebra.
670. **INDEPENDENT STUDY.** 1-4 hrs.
An independent program of study of advanced topics not normally covered in other courses. The topics are chosen upon mutual agreement between the student and the instructor.
PR: Consent of instructor and Department Chairman.
681. **THESIS.** 1-6 hrs.

MODERN LANGUAGES

Professors Almalel, J. Martin (chairman)
Associate Professor Parrish

At present the Department of Modern Languages does not offer a major. Courses in modern languages are taken as minors by students in other departments, such as History, Journalism, and English. Courses in modern languages are also taken by teachers in service who wish to enhance their competence in language and literature and to qualify for a higher salary.

In cooperation with the Department of Education-Curriculum and Foundations, the Department of Modern Languages offers a program leading to the Master's degree in secondary education and Spanish. For further details consult the section: Education-Curriculum and Instruction, Secondary Education, in this catalog.

FRENCH (FRN)

535. **19TH CENTURY LITERATURE.** 3 hrs.
The French romantic movement as exemplified in the poetry, drama, and the novel of the period.
REC: 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.
REC: French 224 or equivalent.
- 555-556. **SPECIAL TOPICS.** 2-4; 2-4 hrs. On demand.
A course for advanced students sufficiently prepared to do constructive work in phases of the language or literature of interest to them.
REC: Three hours of literature from courses numbered 327 or above or equivalent.

**SPANISH
(SPN)**

510. **SPANISH LITERATURE FROM THE CID TO THE 17TH CENTURY.** 3 hrs. On demand.
Readings, lectures, reports, and discussions of significant literary works from the Cid to the 17th century.
REC: Spanish 204 or equivalent.
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.
REC: Two courses in Spanish beyond 204, one of which should be a course in Spanish or Spanish American literature or equivalent.
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.
REC: Spanish 204 or equivalent.
- 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.
REC: Three hours of literature from courses numbered 320 or above, or equivalent.
PR: Permission of the department chairman.
610. **READINGS IN SPANISH OR SPANISH AMERICAN LITERATURE.** 1-3 hrs.
Readings designed for the graduate student who has the interest and the ability to study in depth a certain author, genre, or literary movement.
612. **SPANISH AMERICAN ROMANTICISM.** 3 hrs.
Leading writers and trends in thought and versification of the romantic period.
REC: Two courses in Spanish beyond 204, at least one of which should be a literature course, or equivalent.
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.
REC: Two courses in Spanish beyond 204, at least one of which should be a literature course, or equivalent.
625. **SPANISH LITERATURE OF THE TWENTIETH CENTURY.** 3 hrs.
Emphasis on prose, poetry, and the theatre since 1936, including writers in exile.
REC: Two courses in Spanish beyond 204, at least one of which should be a literature course, or equivalent.
679. **PROBLEM REPORT.** 1-3 hrs.

681. THESIS. 1-6 hrs.

**MUSIC
(MUS)**

Professors Kumlien (chairman), Shepherd, Whear, Wolff
Associate Professors Balshaw, Barbour, Caudill, Cerveris, Clark,
Creighton, Davidson, DeVos, Imperi, Jones, Lanegger, O'Connell, Taggart
Assistant Professors Mead, Stacy

To be admitted to the graduate program in music, students must have received a bachelor's degree from an accredited institution with a major in music or the equivalent. A conference and audition may be required with the Chairman of the Department of Music as a part of the admission procedure. At this conference the conditions of admission are defined. The applicant may submit an audition tape if it is inconvenient to appear on campus.

Majors in all music programs are given an examination in basic skills and capacities in music not later than the time of completion of twelve semester hours of graduate work and before being admitted to candidacy. Applicants are encouraged to take this examination prior to registering for graduate courses.

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, or applied music. A minimum of 6 hours is required in a subject other than music. Not more than six hours may be earned by a thesis. The thesis may be a written report, graduate recital, or musical composition of merit. The student will plan his program with his adviser. (See also the section: Education-Curriculum and Instruction, Music Education of this catalog.)

601a. SURVEY OF MUSIC LITERATURE. 3 hrs.

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

601b. SYMPHONIC LITERATURE. 3 hrs.

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

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

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

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

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

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

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

603b. CONTEMPORARY MUSIC. 3 hrs.

Musical developments since Wagner; Debussy, Stravinsky, Mahler, Strauss, Schoenberg, Bartok and their contemporaries. Developments in electronic and aleatoric music, and new notations.

- 604a. **KEYBOARD LITERATURE.** 2 hrs.
A survey of keyboard literature from the 14th to the 20th century. Emphasis is on stylistic developments and formal procedures.
- 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 Western Europe and America, also including contemporary material from other countries; interpretation, song study, program building, languages, and interpretation of accompaniments. For singers and accompanists.
- 604d. **CHORAL LITERATURE.** 2 hrs.
A comprehensive study of the forms and styles of Choral Composition from Renaissance to present day.
605. **INTRODUCTION TO MUSICOLOGY.** 3 hrs.
A survey of the various fields of musicology with emphasis on basic research techniques, procedures, and bibliography.
606. **MUSIC OF THE CHURCH.** 2 hrs.
Survey of the development of church music from the early Christian era to the 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.
Vibrational stimuli, resultant reactions, and factors involved in development of musical skills, as well as measures of aptitude and achievement.
612. **PROJECTS AND PROBLEMS IN MUSIC.** 3 hrs.
Special problems and projects chosen by the student for investigation. Extensive study of a single problem or project in detail.
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 public school curricula and their effect on music offerings. Preparation of course and curricular content.
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.
A study of the organization of choral music programs including: recruitment, auditions, scheduling, rehearsal arrangement, programming, touring, and budget.
- 619a. SEMINAR IN VOCAL PEDAGOGY. 2 hrs.
A study of the techniques of singing and their application to private and class voice instruction. Emphasis placed upon diagnosis of problems, and teaching under supervision.
- 619b. SEMINAR IN PIANO PEDAGOGY. 2 hrs.
An analytical survey of developments in piano techniques and pedagogical procedures with open discussions on various facets of piano teaching.
- 619c. SEMINAR IN CHURCH MUSIC. 3 hrs.
A basic course dealing with the problems and practices in Church Music. Projects are assigned to fulfill individual needs of students.
- 620a. INSTRUMENTAL WORKSHOP. 2 hrs.
Problems of the instrumental teacher at all levels; practical work in the techniques of handling beginning classes and ensembles of all types.
- 620b. CHORAL WORKSHOP. 2 hrs.
A practicum approach to problems of choral techniques and materials with special emphasis placed upon high school and junior high school levels.
- 625a. WOODWIND TECHNIQUES. 1 hr.
Advanced instrumental techniques courses to strengthen the student's playing-teaching knowledge of 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 may be applied 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.
Performance analysis of choral music from the Renaissance, Baroque and Classical periods as a basis for the expansion of ability in conducting. Students will conduct university ensembles in rehearsal and performance.
- 629b. CHORAL CONDUCTING AND INTERPRETATION. 2 hrs.
Continuation of Music 629a with emphasis upon Romantic and Contemporary music. Some opportunity given to work with operatic conducting. Does not require Music 629a as a pre-requisite.
- 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.
A comprehensive examination of music of the 19th and 20th century through analytical and writing techniques with coordinated aural perception.
- 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 and marching bands, 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 ORCHESTRATION. 2 hrs.
Scoring compositions from other media for modern orchestras of various sizes.

- 648b. **ADVANCED ORCHESTRATION.** 2 hrs.
A continuation of 648a.
649. **STAGE BAND ARRANGING.** 2 hrs.
A study of the special techniques involved in scoring for the contemporary stage band, including harmony used, voicing of the various instruments, and a study of current practices.
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.
Investigative methods and application, problem sensitivity, expository writing style, statistical analyses, and advanced professional literature for individual study in all areas of music.
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 (PHL)

Professor Slaatte, (chairman)
Associate Professors Mininni, Plott

The Philosophy Department offers only a minor on the graduate level consisting of twelve credit hours. Any set of courses is permissible, although it is advisable to take them in relative sequence.

507. **WORLD HISTORY OF PHILOSOPHY, ANCIENT AND MEDIEVAL.** 3 hrs.
Survey of patterns of synchronological developments of philosophies in India, China and the Mediterranean region.
508. **WORLD HISTORY OF PHILOSOPHY, MODERN.** 3 hrs.
Survey of patterns of synchronological developments of philosophy in Europe, Japan, the Islamic world, Latin America and North America.
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.
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 20th century.
- 521-522-523-524. **SEMINAR 3; 3; 3; 3 hrs. I, II.**
Shared study and research on a special topic as announced.
PR: Permission of the chairman.
525. **ANCIENT AND MEDIEVAL POLITICAL THOUGHT.** 3 hrs.
Selective study of classics of Western political theory from earliest times through the 15th century, such as that of Plato, Aristotle, the Romans, Augustine, and Aquinas.
526. **MODERN POLITICAL THOUGHT.** 3 hrs.
Selective study of classics of Western political theory from the 16th through the 18th century, such as that of Machiavelli, Bodin, Hobbes, Locke, Rousseau, Hume and Burke.
551. **PHILOSOPHY OF HISTORY AND CULTURE.** 3 hrs. I.
Ancient and modern theories of the meaning and consequence of history and culture.
REC: 12 hours of history courses or equivalent.
553. **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.
555. **PHILOSOPHY OF RELIGION.** 3 hrs. II.
Theories of the nature and functions of religion, including the meaning of religious language and problems of belief.
565. **EXISTENTIALISM.** 3 hrs. I.
A survey of the contributions of leading existentialist philosophers of the past and present from Kierkegaard and Nietzsche to Sartre and Tillich; course is conducted much like a seminar.
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 (PE)

Professors Hicks (chairman-women), Railey (chairman-men)
Associate Professors Mills, Williams
Assistant Professors Barnett, Eisenman, Hammond, Taylor

Admission to the graduate program in health and physical education is dependent upon the student satisfying the minimum admission requirements established by the Graduate School. Students who have an undergraduate major in physical education or students who have earned 15 hours in physical education theory courses are eligible to pursue a Master of Science degree with a major in health and physical education.

Prior to admission to candidacy, all students must have completed the following Marshall University undergraduate courses or have achieved an equivalent level of competency: Kinesiology, Tests and Measurements, and Physiology of Exercise. The Coordinator of the graduate program in Health and Physical Education, in conjunction with advisement from the departmental graduate faculty, will be responsible for determining which courses are equivalent to those listed.

COURSE REQUIREMENTS

Graduate students must choose a course of study either from Option A or Option B.

Option A.	Hours
Minimum Requirements	32
1. Physical Education (Select one course from four of the six core areas*)	12
2. Physical Education (Select three hours from any of the core areas*)	3
3. Thesis (Physical Education 681)	6
4. Educational Foundations 621	3
5. Electives (six hours in minor areas)	8
Option B	Hours
Minimum Requirements	36
1. Physical Education (Select one course from four of the six core areas*)	12
2. Physical Education (Select six hours from any of the core areas*)	6
3. Applied Project (Physical Education 680)	3
4. Educational Foundations 621	3
5. Electives (six hours in minor area)	12
531. 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.	

*Core Areas: Sociocultural perspectives (Physical Education 654, 582-585), Biological perspectives (Physical Education 651, 610, 621, 582-585), Philosophical perspectives (Physical Education 626, 624, 582-585), Psychological perspectives (Physical Education 610, 608, 582-585), Research perspectives (Physical Education 670, 665, 582-585, 565), Professional perspectives (Physical Education 640, 655, 531, 635, 582-585, 696).

565. TESTS AND MEASUREMENTS IN HEALTH AND PHYSICAL EDUCATION. 3 hrs.
The course includes information which will aid the prospective teacher in the location, evaluation, administration, interpretation, use of test results and test construction in physical education. 3 lec.-2 lab.
- 582-585. SPECIAL TOPICS. 1-3 hrs.
PR: Approval by department chairman and instructor.
- 586-589. WORKSHOP IN PHYSICAL EDUCATION. Credit arranged.
608. MOTOR LEARNING AND PERFORMANCE. 3 hrs.
Investigation of variables influencing the learning motor skills. Primary emphasis on psychological factors influencing motor performance. 2 lec.-2 lab.
610. PHYSICAL GROWTH AND MOTOR DEVELOPMENT. 3 hrs.
The study of physical growth and motor development of children from infancy through adolescence. Stages in the development of motor patterns and motor skills will be traced with consideration given to neurological changes and external forces which influence motor development.
621. SCIENTIFIC ASPECTS OF PHYSICAL EDUCATION.
3 hrs.
The study of the physiological effects of exercise. Content includes study of three organic systems (muscular, cardiovascular, and respiratory), discussion of practical applications, and identification of potential research problems. 2 lec.-2 lab.
REC: Physical Education 301 and 440, or equivalent.
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.
624. ISSUES IN PHYSICAL EDUCATION. 3 hrs.
Critical selection and analysis of current controversies in physical education. Analysis includes identification of the content fostering each issue and the systematic probing of administrative tenets and philosophical positions taken by all factions. Attempts at resolution are secondary to exploration and analysis of viewpoints.
626. HISTORY AND PHILOSOPHY OF PHYSICAL EDUCATION AND SPORTS. 3 hrs.
An investigation of historical events, political and social climates, and personalities as well as philosophies which have influenced physical education and sports from early civilizations to the present.
635. CURRICULUM DEVELOPMENT IN PHYSICAL EDUCATION. 3 hrs.
General principles of curriculum development as they apply to physical education are studied. Opportunities to develop and evaluate curriculum.
640. ADMINISTRATION OF PHYSICAL EDUCATION. 3 hrs.
A systematic approach to effective administration. Contemporary problems in physical education will be viewed and approached through the case study technique.

651. MECHANICAL ANALYSIS OF MOTOR SKILLS. 3 hrs.
Analysis of motor skills through the application of the principles of physics.
REC: Physical Education 321 or equivalent.
654. CONTEMPORARY AND COMPARATIVE PHYSICAL EDUCATION. 3 hrs.
A study of objectives, methods, personnel, facilities, and program uniqueness of the physical education of selected nations and world regions. National sport programs, international sport programs and competition, and international professional organizations are considered.
655. ADMINISTRATION OF THE ATHLETIC PROGRAM. 3 hrs.
An in-depth study of the organization and administrative procedure and processes of interschool athletics, including both the interscholastic and intercollegiate level.
665. ADVANCED TESTS AND MEASUREMENTS IN PHYSICAL EDUCATION. 3 hrs.
Construction and analysis of measurement instruments, techniques in the use of laboratory equipment, and evaluation techniques applied to physical education. 2 lec.-2 lab.
Rec: Physical Education 465 or equivalent.
670. EXPERIMENTAL RESEARCH IN PHYSICAL EDUCATION. 3 hrs.
An examination of experimental research design, laboratory methods, construction of instruments, execution of research, and presentation of research papers.
680. APPLIED PROJECT. 3 hrs.
A creative and scholarly approach to the solution of a problem selected by the student. The project may be one which attempts to solve or alleviate a problem of local, state, or national interest to physical educators. Problems that can be approached by conventional research techniques may also be selected. A prospectus must be approved by the student's faculty committee.
681. THESIS. 1-6 hrs.
696. SEMINAR IN PHYSICAL EDUCATION. 3 hrs.
A course designed for library research and discussion of critical questions in physical education. Topics to be selected will vary according to the interests of the students.

SAFETY EDUCATION (SE)

Associate Professor Mills

The following courses in safety education may be selected for a minor:

580. TRAFFIC LAW ENFORCEMENT. 3 hrs.
A course designed to study and evaluate the varied and complex system of laws governing the control of all forms of human traffic and the influences and responsibilities of traffic law enforcement on present and future societies.

585. **INDUSTRIAL SAFETY.** 3 hrs.
Safety functions in industry. Principles of organization and application of safety programs. Prevention, correction and control methods are outlined and evaluated.
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.
REC: Safety Education 235 and 385 or equivalent.
595. **INDUSTRIAL SAFETY MANAGEMENT.** 3 hrs.
Concerned with instruction of industrial management personnel interested in accident prevention and safety administration. Emphasis will be on principles, facts and methodology involving safety management.

PHYSICAL SCIENCE AND PHYSICS

Associate Professors Dumke, Manakkil, Shanholtzer
Assistant Professor Oberly (co-chairman)

DEGREES OFFERED

MASTER OF SCIENCE (PHYSICAL SCIENCE): This degree program, offered in cooperation with the Departments of Chemistry, Geology and Mathematics, is intended to provide a broadly based advanced science program for individuals whose undergraduate program in science lacks depth or breadth. Programs will be designed to meet individual needs. The writing of a thesis is optional. If the thesis option is chosen, a minimum of 32 hours are required, including not more than 6 hours for the thesis; without the thesis, 36 hours are required.

	Hours
Minimum requirement	32-36
Major area	18
Minor area	6
Electives in Chemistry, Geology, Mathematics, Physical Science or Physics ..	8-12

MASTER OF ARTS (PHYSICAL SCIENCE): This degree program, offered in cooperation with the Departments of Chemistry, Geology and Curriculum and Foundations, is intended to meet the needs of public school teachers (1-12). Programs will be designed to meet individual needs. Specific degree requirements are listed in the Section: Education-Curriculum and Instruction, Secondary Education.

The Department of Physical Science and Physics also offers minor fields in physical science and in physics.

PHYSICAL SCIENCE (PS)

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.
REC: Physics 200 or 203 or Physical Science 109 or equivalent.

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.
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.

**PHYSICS
(PHY)**

562. NUCLEAR CHEMISTRY AND PHYSICS.. 3 hrs. II.
An introduction to the phenomena of nuclear chemistry and physics 3 lec.
REC: Physics 203, 204 and Mathematics 221, or equivalent.
563. NUCLEAR CHEMISTRY AND PHYSICS LABORATORY. 2 hrs. II.
Laboratory course to accompany or follow Physics 562. 4 lab.
REC: Physics 203, 204, and Mathematics 221, or equivalent.
570. MATHEMATICAL METHODS OF PHYSICS. 3 hrs.
Offered on demand.
Applications of advanced topics in mathematics to problems in physics.
REC: Physics 203 and Mathematics 335 or equivalent.
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.
REC: Physics 320 or Chemistry 358 and Mathematics 221, or equivalent.
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.
REC: Physics 331 and Mathematics 335 or equivalent.
- 601-602. ADVANCED MECHANICS. 3; 3 hrs. Offered on demand.
Variational principles 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.
REC: Physics 331 and Mathematics 335, or equivalent.

- 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.
REC: Physics 302 and Mathematics 335, or equivalent.
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.
REC: Physics 203, 204 and Mathematics 335 or equivalent.
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.
REC: Chemistry 358 or equivalent.
617. SPECTROSCOPY. 3 hrs. Offered on demand.
A study of emission and absorption spectroscopy. 2 lec.-3 lab.
REC: Chemistry 358 or equivalent.
624. MAGNETIC RESONANCE. 3 hrs. Offered on demand
A course in nuclear and electron spin resonance. 3 lec.
PR: Physics 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 580 or Chemistry 580, or equivalent.
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.
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.
- 671-672. SEMINAR. 1; 1 hr. I, II.
682. THESIS RESEARCH. 1-6 hrs. I, II, S.
PR: Graduate status and approval of adviser.

POLITICAL SCIENCE (PSC)

Professors Choi, Perry, P. Stewart (chairman)

Associate Professors Abbas, Neely

Assistant Professors Feuerle, Matz, Rosswurm, T. Stewart

The graduate curriculum in political science provides a wide range of opportunities for students of various interests or goals. The M.A. program affords both concentration and flexibility so that majors may acquire in-depth knowledgeability in selected aspects of politics as well as appropriate skills in political analysis. Majors may arrange a program to prepare themselves for such endeavors as law school, further graduate work, teaching, or government service. The curriculum also serves interested students in other majors, such as business, education, economics, English, geography, history, journalism, psychology, social studies, or sociology, who wish to enhance their backgrounds by taking a minor or specific course work.

Completion of the master's degree in political science entails fulfillment of both the general Graduate School requirements and the specific departmental requirements listed below. A major may select either the thesis or the non-thesis option. Once an option has been selected, any change in the option must be approved by the department.

The graduate curriculum in political science is divided into six areas of specialization. The student who elects to write a thesis must take at least nine course hours in one of these, and the topic must be within this area of specialization. Under the non-thesis option, at least twelve course hours must be taken in one area of specialization.

Upon approval of the chairman and of the Graduate Dean, a student might take 6 hours in methodology or other related courses so that not all the hours for the minor would necessarily be in the same department.

Under the non-thesis option the candidate must take a comprehensive written examination. All candidates must take a general oral examination.

	Hours
Minimum requirements	32-36
1. Political Science 602 (required of all majors)	3
2. Area of Specialization (minimum)	9-12
3. Minor (minimum)	6
4. Thesis (maximum)	6
5. Electives	5-15
Areas of specialization and present course offerings:	
American State, Local and Urban Politics: Political Science 529, 540, 561, 611, 621, 624, 648, 675.	
American National Politics: Political Science 529, 533, 540, 585, 586, 603, 604, 606, 611, 624.	
Public Administration: Political Science 533, 621, 633.	
Political Theory: Political Science 525, 526, 527, 529, 604, 629	
Comparative Politics: Political Science 507, 508, 509, 510, 511, 518, 519, 521, 529, 614.	
International Politics: Political Science 505, 506, 515, 518, 519, 521, 529, 609.	

Courses numbered Political Science 500 through 504, 601, 650, and 651 may be counted in an appropriate area of specialization upon the approval of the adviser.

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

To offer a course, seminar or workshop on some special topic in the field of political science which is not adequately treated in the regular course offerings.

505. **INTERNATIONAL ORGANIZATIONS.** 3 hrs.
Study of world and regional organizations as reflections of world politics, as instruments of foreign policies, and as forces for change and order, with emphasis on their role as channels for management of cooperation and conflict.
506. **INTERNATIONAL POLITICS.** 3 hrs.
Study of major issues in world politics, with emphasis on theoretical approaches, problems of war and peace, and contemporary trends.
507. **ASIAN POLITICS.** 3 hrs.
Study of such nations as India, China, Japan, and Korea in the contemporary setting.
508. **MIDDLE EASTERN POLITICS.** 3 hrs.
Study of the Arab States and such nations as Israel, Iran and Turkey in the contemporary setting.
509. **WESTERN DEMOCRATIC POLITICS.** 3 hrs.
Study of such nations as Canada and those of Western Europe, particularly Great Britain and France.
510. **EUROPEAN COMMUNIST POLITICS.** 3 hrs.
Study of the Soviet Union and Eastern Europe.
511. **LATIN AMERICAN POLITICS.** 3 hrs.
Study of selected Latin American nations in the contemporary setting.
515. **INTERNATIONAL LAW.** 3 hrs.
Study of theories, origins, sources, development, present state, and trends of international law as a factor in various aspects of international politics.
518. **FOREIGN POLICIES OF WESTERN NATIONS.** 3 hrs.
Study of the formulation, implementation, and consequences of the foreign policies of selected Western nations such as the U.S., Great Britain, and France, with consideration of variables influencing the content and direction of their international behavior.
519. **FOREIGN POLICIES OF COMMUNIST NATIONS.** 3 hrs.
Study of the formulation, implementation, and consequences of the foreign policies of selected Communist nations such as the Soviet Union and China, with consideration of variables influencing the content and direction of their international behavior.
521. **FOREIGN POLICIES OF DEVELOPING NATIONS.** 3 hrs.
Study of the formulation, implementation, and consequences of the foreign policies of selected developing nations such as India, Nigeria, and Brazil, with consideration of variables influencing the content and direction of their international behavior.
525. **ANCIENT AND MEDIEVAL POLITICAL THOUGHT.** 3 hrs.

Selective study of classics of Western political theory from earliest times through the 15th century, such as that of Plato, Aristotle, the Romans, Augustine, and Aquinas.

526. MODERN POLITICAL THOUGHT. 3 hrs.

Selective study of classics of Western political theory from the 16th through the 18th century, such as that of Machiavelli, Bodin, Hobbes, Locke, Rousseau, Hume, and Burke.

527. RECENT POLITICAL THOUGHT. 3 hrs.

Selective study of political thought of the 19th and 20th century, such as the philosophy, theory and ideology of democracy, socialism, elitism, communism, and fascism.

529. THE POLITICS OF CONFLICT AND REVOLUTION. 3 hrs.

✱ Study of major theories of conflict and revolution, and analysis of conflict-inducing and conflict-inhibiting factors related to system maintenance, with emphasis on the relevance of the literature in this area to the black community.

533. PUBLIC ADMINISTRATION AND POLICY DEVELOPMENT. 3 hrs.

Study of economic, sociological, psychological, and political factors in the shaping of public policy and planning, with stress on inter-relationships between politics, administration, and planning.

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.

561. THE FUNCTIONAL DIMENSIONS OF URBAN POLITICS. 3 hrs.

Study of policy problems of metropolitan political systems in terms of the functional requirements of a viable urban community, with emphasis on problems having special relevance to the black community.

585. AMERICAN CONSTITUTIONAL LAW: POWERS AND RELATIONSHIPS. 3 hrs. I.

The basic structural and functional principles of American constitutional government with emphasis on leading cases relative to judicial, congressional, and presidential powers; separation of powers; and federalism.

586. AMERICAN CONSTITUTIONAL LAW: CIVIL LIBERTIES. 3 hrs. II.

The basic substantive and procedural principles of American constitutional liberty, with emphasis on leading cases and readings relative to the freedoms, equality, and due process of law.

601. READINGS IN POLITICAL SCIENCE. 2-3 hrs.

Readings to meet the needs and interests of individual students.

602. RESEARCH DESIGN AND METHODOLOGY. 3 hrs.

Study to give the student a working knowledge of various forms of empirical and quantitative research in political science, treating such topics as concept formation, experimental method, data-collection techniques, measurement, probability and statistical inference, correlation and regression, scaling, and survey research.

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.
606. SEMINAR IN AMERICAN CONSTITUTIONAL LAW. 3 hrs.
609. SEMINAR IN INTERNATIONAL RELATIONS THEORY AND
✱ METHODOLOGY. 3 hrs.
611. SEMINAR IN THE AMERICAN LEGISLATIVE PROCESS. 3 hrs.
614. COMPARATIVE POLITICS. 3 hrs.
Critical consideration of key concepts in the contemporary comparative study of politics, such as political cultures, sub-cultures, and socialization; elite requirement; and interest articulation. Exploratory testing of the utility of such concepts through their applications to selected political systems and phenomena.
621. URBAN ADMINISTRATIVE PROBLEMS. 3 hrs.
Principles and methods of urban administration in the U.S.
624. SEMINAR IN THE AMERICAN JUDICIAL PROCESS. 3 hrs.
629. SEMINAR IN POLITICAL THOUGHT. 3 hrs.
633. ADMINISTRATIVE ORGANIZATION AND BEHAVIOR. 3 hrs.
Study of some contributions of the behavioral sciences to the study of organizations, with stress on such concepts as leadership, motivation, conflict, power, role theory, organizational design, and decision-making.
648. PROBLEMS IN WEST VIRGINIA GOVERNMENT. 3 hrs.
Readings, lectures, and reports on contemporary governmental problems in West Virginia.
- 650-651. SEMINAR. 3-3 hrs.
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 department chairman.
681. THESIS. 1-6 hrs.

PSYCHOLOGY (PSY)

Professors G. Ward, (chairman), Wolf
Associate Professor Chezik
Assistant Professors Alsip, Baker, Chait, Collen, Walton

Applicants for admission to the graduate program in psychology must

present a minimum of twelve hours in undergraduate psychology courses, including psychological statistics and laboratory experimental psychology, or have achieved equivalent competency. Scores on the aptitude section of the Graduate Record Examination are required and letters of recommendation may be requested.

Students intending to earn a graduate degree to qualify for employment as a master's-level clinical psychologist or mental health technician complete 36 credit hours of course work without a thesis.

Students earning a master's degree as preparation for further graduate study complete 32 credit hours of course work, including up to 6 credit hours for a research-based thesis.

Students in both programs take a written comprehensive examination at the end of their program.

502. **ADVANCED SOCIAL PSYCHOLOGY.** 3 hrs.
 Advanced study of selected topics in social psychology.
506. **PSYCHOMETRICS.** 3 hrs. I, S.
 Mental test theory and applications.
 REC: Psychology 223 or equivalent.
508. **ABNORMAL PSYCHOLOGY.** 3 hrs. II.
 Study of the nature, causes and treatment of maladaptive human behavior.
 REC: Psychology 201 or equivalent.
516. **PSYCHOLOGY OF LEARNING.** 3 hrs. II.
 Critical study of the major theories of learning and related research.
 REC: 12 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.
 REC: Psychology 323, 324, 406 and Mathematics 120, or equivalent.
518. **PSYCHOLOGY OF PERSONNEL.** 3 hrs. I, II.
 Psychological principles and methods applied to functions in personnel administration.
 REC: Psychology 201 or equivalent.
560. **HISTORY AND SYSTEMS OF PSYCHOLOGY.** 3 hrs. I.
 REC: 12 hours of psychology or equivalent.
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.
 REC: 12 hours of psychology or equivalent.
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.
 REC: 12 hours of psychology, including Psychology 406, or its equivalent.
 PR: Consent of Department Chairman.

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.
REC: 12 hours of psychology, including Psychology 406, or its equivalent.
PR: Consent of Department Chairman.
613. PSYCHOLOGICAL TESTS III. 3 hrs.
Instruction and practice in the administration, scoring, and interpretation of standard projective devices.
PR: Psychology 611 and 612.
614. PSYCHOLOGY OF PERSONALITY. 3 hrs. I.
The nature of personality structure and dynamics.
REC: 12 hours of psychology or equivalent.
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: Consent of Department Chairman.
621. CLINICAL PSYCHOLOGY II. 3 hrs.
Appraisal and counseling of individuals presenting abnormal adjustments.
PR: Consent of Department Chairman.
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.
REC: 12 hours of psychology, including statistics equivalent to Psychology 417, or equivalent.
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.
673. PROBLEMS IN PERSONNEL MANAGEMENT (Also Mgt. 673). 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 man power administration.
681. THESIS. 1-6 hrs. I, II, S.
- 690-691-692-693-694-695. SEMINAR. 1-3; 1-3; 1-3; 1-3; 1-3; 1-3 hrs.
Reports on current problems and literature in psychology and related fields; professional ethics.
PR: Consent of Department Chairman.

SOCIAL STUDIES (SOS)

Professors Cubby (chairman), Brown
Associate Professor Coffey
Assistant Professors Cox, Karr, Riddel

This inter-disciplinary degree program is primarily intended to meet the needs of public school teachers. Each student's program will be designed to meet the individual's academic background and interests. Specific degree requirements are listed in the section: Education-Curriculum and Instruction, Social Studies.

SOCIOLOGY AND ANTHROPOLOGY

Professors Comfort, Sill, Simpkins (chairman)
Assistant Professor Singh

Applicants for admission to the graduate program in sociology must present: (1) a minimum of twelve hours of undergraduate sociology courses, including three hours of statistics; (2) Graduate Record Examination scores.

Applicants for admission to candidacy must have completed satisfactorily twelve hours of resident graduate sociology courses including Sociology 503 and 545. To complete the requirements for the master's degree, either the thesis or the non-thesis option may be chosen. The thesis option is recommended for those who plan to teach at the college level and to continue work toward the Ph.D.

The thesis option requires completion of 32 hours of work, including 6 hours of thesis in Sociology 681 and a minor of 6-9 hours. The non-thesis option requires completion of 36 hours, including Sociology 679 and a minor of 6 hours. Sociology 503, 545 and 601 are required for either option.

The following specialty options are available:

1. General Option: Sociology 501, 503, 521, 545, 601, 679 or 681 and 12-18 additional hours.
2. Community Development Option: Anthropology 505, 527, Sociology 503, 539, 542, 545, 601, 602, 679 or 681 and 3-9 additional hours.
3. Industrial Relations Option: Sociology 503, 545, 512, 533, 542, 601, 633, 679 or 681 and 6-12 additional hours.

A minor in Anthropology is available.

ANTHROPOLOGY (ANT)

505. COMMUNITY DEVELOPMENT. 3 hrs.
Principles of applied anthropology in community development.
REC: 6 hours of anthropology or sociology or equivalent.
526. AFRICAN CULTURES. 3 hrs.
Comparative analysis of the tribal cultures of Africa.
REC: 6 hrs. of anthropology, or equivalent.
527. ETHNIC RELATIONS. 3 hrs.
Analysis of cultural contact situations with emphasis on the role of western Europe cultures.
REC: 6 hrs. of anthropology, or equivalent.
530. THE AMERICAN INDIAN. 3 hrs.
Comparative analysis of Indian tribal cultures of the Americas.
REC: 6 hrs. of anthropology, or equivalent.

553. CULTURE AND PERSONALITY. 3 hrs.
Analysis of the relations between cultural, social and personality systems.
REC: 6 hrs. of Sociology or Anthropology, 6 hrs. of Psychology or equivalent.
555. APPALACHIAN CULTURE. 3 hrs. I.
Analysis of the Culture of Appalachia from the beginning to 1870
PR: 6 hrs. of Anthropology or departmental permission.
556. APPALACHIAN FIELD EXPERIENCE I. 6 hrs.
Supervised field work in an Appalachian community studying the social and cultural characteristics of the area. Four afternoons each week plus one class hour.
REC: Anthropology 455, or equivalent.
557. APPALACHIAN CULTURE II. 3 hrs.
Analysis of culture changes in Appalachia from 1870 to the present.
PR: Anthropology 555.
558. APPALACHIAN FIELD EXPERIENCE II. 6 hrs.
Supervised field work in an Appalachian community studying the social and cultural characteristics of the area. Four afternoons each week plus one class hour.
PR: Anthropology 555, 556, 557.

SOCIOLOGY (SOC)

500. HUMAN ECOLOGY. 3 hrs.
Study of the ecological structure and processes of human communities, regions, and areas.
REC: 6 hrs. of sociology or equivalent.
501. POPULATION PROBLEMS. 3 hrs.
Study of population characteristics, growth and trends with emphasis on the social and cultural implications.
REC: Sociology 345, or equivalent.
503. SOCIAL RESEARCH II. 3 hrs.
Intermediate social research methodology with emphasis on research design. 2 lec.-2 lab. (Required of all M.A. candidates).
REC: Sociology 345, or equivalent.
508. THE FAMILY. 3 hrs.
Theoretical analysis of the family as a primary social institution.
REC: 6 hours of sociology, or equivalent.
512. SMALL GROUPS. 3 hrs.
Study of the dynamics of small groups with emphasis on role theory.
REC: Sociology 300 or Sociology 310 or Psychology 302, or equivalent.
513. COLLECTIVE BEHAVIOR. 3 hrs.
Analysis of uninstitutionalized social behavior.
REC: Six hours of sociology or equivalent.

521. **SOCIOLOGICAL THEORY I.** 3 hrs.
The development of social thought and early sociological theory.
REC: 6 hours of sociology or equivalent.
533. **INDUSTRIAL SOCIOLOGY.** 3 hrs.
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.
REC: Sociology 412 or equivalent.
539. **SOCIAL STRATIFICATION.** 3 hrs.
Analysis of various theories of stratification, with emphasis on the American class system.
REC: 6 hours of sociology or equivalent.
542. **METROPOLITAN COMMUNITIES.** 3 hrs.
Sociology of metropolitan communities.
REC: Sociology 300 or equivalent.
545. **SOCIAL STATISTICS II.** 3 hrs.
Intermediate level statistical analysis, including analysis of variance and covariance. 2 lec.-2 lab. (Required of all M.A. candidates).
REC: Sociology 345 or equivalent.
550. **SOCIOLOGY OF RELIGION.** 3 hrs.
An investigation into the nature of religion as a social phenomenon.
REC: 6 hours of sociology or equivalent.
- 581-582. **INDEPENDENT STUDY.** 2-4, 2-4 hrs.
Individual study of topics not offered in regularly scheduled courses.
PR: For majors only; advance departmental permission is required.
601. **SOCIOLOGICAL THEORY II.** 3 hrs.
Contemporary sociological theories and their relation to research in human behavior (Required of all M.A. candidates).
REC: Sociology 421 or equivalent.
602. **CONTEMPORARY SOCIAL CHANGE.** 3 hrs.
Theories of social change and their uses in analyzing social change of today.
REC: 12 hours of sociology or equivalent.
- 603-604. **BEHAVIORAL SCIENCE I AND II.** 3; 3 hrs.
Seminar in behavioral science theory.
REC: 12 hrs. in any combination of sociology, psychology, anthropology, political science or economics, or equivalent.
611. **SOCIAL PATHOLOGY.** 3 hrs.
Seminar in social maladjustment and disorganization and their consequences.
REC: 12 hours of sociology or equivalent.
612. **SOCIAL MOVEMENTS.** 3 hrs.
Seminar in social movements and other collective phenomena with analysis of selected examples.
REC: 12 hours of sociology or equivalent.

620. **CRIMINOLOGY.** 3 hrs.
Seminar in crime and delinquency.
REC: 12 hours of sociology or equivalent.
633. **COMPLEX ORGANIZATIONS.** 3 hrs.
Seminar in complex organizations with special attention given to bureaucratic organization.
REC: 12 hours of sociology or equivalent.
668. **SEMINAR.** 1-3.
Topics vary from semester to semester.
PR: 12 hours of sociology or departmental permission.
679. **PROBLEM REPORT.** 1-3 hrs.
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.
PR: Admission to candidacy and staff approval of thesis proposal.

SPEECH (SPN)

Professors Garrett, Harbold, Hoak, Hope,
Novak, Olson (chairman), Page
Associate Professors Johnson, Kellner
Assistant Professors East, Lustiz

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 or in broadcasting. Before being fully admitted for any of these programs a student must have completed a minimum of 18 hours of appropriate undergraduate work in speech, or have achieved the equivalent competency.

Each departmental major will have a graduate committee consisting of his adviser, the chairman of the department and one other member of the graduate staff.

A written comprehensive examination is required; in addition, an oral comprehensive examination may be required. All members of a candidate's examining committee will grade (pass/not pass) the examination(s). 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 minimum of 36 graduate credit hours of coursework (without the thesis) or 32 hours (with the thesis) is required for graduation. One-half of these hours must be 600 level courses. All graduate students in the speech program will take Speech 601: Problems and Methods in Speech Research. Special provisions of each of the programs of emphasis are:

Major in Speech

The student 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, broadcasting, or theatre. He must take one course in each of these areas plus one graduate course in speech pathology and audiology.

Specialization in Speech Pathology and Audiology

Emphasis in speech pathology and audiology at the graduate level follows a prescribed program leading to eligibility for national certification by the American Speech and Hearing Association. Students without a minimum of 30 semester hours of undergraduate coursework in speech pathology, audiology, psychology, and related areas which are specified as a part of national certification requirements, should plan to earn the additional credits during their graduate enrollment.

Students wishing to be eligible for a certificate as a speech and hearing therapist in the schools, must also meet the course requirements for such certification outlined in the undergraduate catalog.

Courses

503. **PLAY DIRECTION.** 3 hrs. I.
Primarily for those who will provide plays in schools, churches, and communities.
REC: Speech 210, 312, and 313 or equivalent.
507. **PERSUASION.** 3 hrs.
A study of persuasive methods with special attention to the techniques of well-known contemporary speakers.
REC: Five hours of public address, or equivalent.
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 dramatic 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.
530. **BROADCAST DOCUMENTARY AND DRAMATIC WRITING.**
3 hrs. II.
Writing techniques for preparing scripts for the documentary, film and dramatic show.
REC: Speech 332 or equivalent.
531. **ADVANCED TELEVISION PRODUCTION.** 3 hrs.
Advanced theory and practice in the elements of producing the complete television program.
REC: Speech 233 or 432 or equivalent.
532. **USE OF RADIO AND TELEVISION IN THE CLASSROOM.**
3 hrs. II.
Development of instructional broadcasting; production and utilization of instructional programs.
533. **RADIO AND TELEVISION PROGRAMMING.** 3 hrs. II.
Analysis of the structure and format of individual programs and program schedules as they relate to the social, economic, literary, and political impact of the medium.
REC: Speech 231 or 332 or 431 or equivalent.

535. **BROADCAST LAW AND REGULATIONS.** 3 hrs. II.
Development and present status of the legal structure of broadcasting in the United States.
REC: Speech 230 or equivalent.
536. **COMPARATIVE SYSTEMS OF BROADCASTING.** 3 hrs. I.
Development of various systems of broadcasting practiced in other countries of the world and comparison with our own mind. Including recent trends in international broadcast systems and communications satellites.
REC: Speech 230 or equivalent.
537. **BROADCAST MANAGEMENT AND ECONOMICS.** 3 hrs.
Problems and practices in the organization of and operation of radio and television stations, including study of the economics of the broadcast industry.
REC: Speech 230 or 435 or equivalent.
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.
REC: Speech 312 and 313, or equivalent.
548. **ADVANCED TECHNICAL THEATRE.** 3 hrs.
Advanced work in technical phases of mounting a stage production.
REC: Speech 312-313 or equivalent.
550. **THE DIRECTION OF SPEECH ACTIVITIES.** 3 hrs.
For those responsible for extra-curricular speech: debate, extempore speaking, oral reading, discussion, oratory.
REC: Fifteen hours of speech or equivalent.
575. **SEMINAR IN SPEECH EDUCATION FOR SECONDARY TEACHERS.** 6 hrs.
A seminar in speech education for secondary and future teachers; a joint teacher-student program where theories and techniques can be studied, applied, and evaluated through practical experiences with high school students.
PR: One year teaching experience.
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.
REC: Five hours of public address or equivalent.

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.
630. SEMINAR IN BROADCAST CRITICISM. 3 hrs. II.
Intensive critical analysis of broadcast programs and programming procedures from the socio-cultural, literary, political and industry points of view.
REC: Speech 433 or equivalent.
632. PROBLEMS IN EDUCATIONAL BROADCASTING. 3 hrs.
Examination and evaluation of the techniques, utilization procedures, and problems involved in educational and instructional broadcasting for the public school, higher education, industry and the public.
REC: Speech 432 or experience in ETV.
634. SEMINAR IN RADIO AND TELEVISION. 3 hrs. I.
Problems in the broadcast field on varied subjects which concern the industry.
REC: Speech 435 or 437 or equivalent.
649. SEMINAR IN THEATRE. 3 hrs.
Seminar in problems of dramatic production.
PR: Speech 503.
650. LEADERS AND MOVEMENTS IN SPEECH EDUCATION. 3 hrs.
The important schools of thought, trends in the philosophy of speech, leaders and their influence since the time of Dr. James Rush.
REC: 18 hours of speech or equivalent.

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656. SEMINAR IN PUBLIC ADDRESS AND SPEECH EDUCATION.
1-3 hrs.
REC: 18 hours of speech or equivalent.
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.
- 670-671. CLINICAL PRACTICUM IN SPEECH PATHOLOGY. 3; 3 hrs.
Supervised clinical training in the Marshall University Speech and Hearing Clinic and in associated rehabilitation facilities.
679. PROBLEM REPORT. 1-3 hrs.
REC: 18 hours of speech or equivalent.
681. THESIS. 1-6 hrs.

The Faculty

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

- ABBAS, JABIR A., Associate Professor of Political Science, 1962
Ph.D. 1971, Indiana University
- ADKINS, HOWARD G., Assistant Professor of Geography, 1970
Ph.D. 1972, University of Tennessee
- ADKINS, JOAN F., Associate Professor of English, 1963
Ph.D. 1972, University of Utah
- AKKIHAI, RAMCHANDRA G., Associate Professor of Economics, 1968
Ph.D. 1969, University of Tennessee
- ALDRED, FRANCIS K., Associate Professor of History, 1967
Ph.D. 1967, University of Virginia
- ALEXANDER, ROBERT P., Associate Professor of Management, 1958
Ph.D. 1969, Ohio University
- ALLEN, THOMAS R., JR., Assistant Professor of Education, 1971
Ed.D. 1971, University of Georgia
- ALMALEL, CORAZON, Professor of Modern Languages (Spanish), 1970
Ph.D. 1962, University of Madrid
- ALSIP, JONATHAN E., Assistant Professor of Psychology, 1970
Ph.D. 1969, Iowa State University
- ANDERSON, SARA E., Assistant Dean, College of Business and Applied Science
and Professor of Office Administration, 1966
Ed.D. 1964, Indiana University
- ARHELGER, HOMER, Director of Institutional Research and Professor of
Education, 1962
Ed.D. 1962, Indiana University
- ASH, STANLEY W., Associate Professor of Biological Sciences, 1956
M.A. 1954, Marshall University; graduate study, University of
Pennsylvania, Florida State University
- ASHFORD, WILLIAM F., Professor of Marketing, 1970
Ph.D. 1969, Ohio University
- BABB, DANIEL P., Assistant Professor of Chemistry, 1972
Ph.D. 1968, University of Idaho
- BAILEY, ALAN, Assistant Professor of Geology, 1971
Ph.D. 1970, Michigan State University
- BAKER, ELAINE, Assistant Professor of Psychology, 1972
Ph.D. 1971, Miami University (Ohio)

- BALSHAW, PAUL A., Associate Professor of Music, 1965
D.Mus.A. 1963, Eastman School of Music
- BALSMEIER, PHILLIP W., Associate Professor of Management, 1972
Ph.D. 1973, University of Arkansas
- BARBOUR, RICHARD L., Associate Professor of Music, 1969
Ph.D. 1968, University of Oregon
- BARKER, LAWRENCE W., Assistant Professor of Education, 1970
Ed.D. 1968, West Virginia University
- BARNETT, C. ROBERT, Assistant Professor of Physical Education, 1972
Ph.D. 1972, Ohio State University
- BAUER, DARYLL D., JR., Associate Professor of Education, 1970
Ed.D. 1970, University of Virginia
- BAUSERMAN, THOMAS, Professor of Mathematics, 1955
Ph.D. 1961, University of Pittsburgh
- BENNETT, GRACE, Professor of Home Economics, 1965
Ph.D. 1957, Purdue University
- BINDER, FRANKLIN L., Assistant Professor of Biological Sciences (Botany),
1971
Ph.D. 1971, West Virginia University
- BIRD, MARGARET A., Assistant Professor of Biological Sciences (Zoology),
1970
Ph.D. 1970, North Carolina State University
- BLANKENSHIP, MARTHA D., Associate Professor of Home Economics, 1961
Ph.D. 1970, Pennsylvania State University
- BONNETT, RICHARD B., Assistant Professor of Geology, 1968
Ph.D. 1970, Ohio State University
- BROADWATER, ERNEST H., Assistant Professor of Education, 1971
Ph.D. 1972, Ohio State University
- BROMLEY, NORMAN P., Associate Professor of Finance, 1969
J.D. 1962, West Virginia University, M.B.A. 1963, Indiana University
- BROWN, JACK R., Professor of English, 1948
Ph.D. 1937, Northwestern University
- BROWN, MAHLON C., Professor of Social Studies, 1955
D.S.S. 1959, Syracuse University
- CAMPBELL, MARGARET C., Associate Professor of Education, 1956
Ed.D. 1973, George Peabody College for Teachers
- CAUDILL, JOANNE C., Associate Professor of Music, 1950
M.Mus. 1948, Indiana University; graduate study, Florida State University,
University of Denver, Marshall University, Indiana University

- CERVERIS, MICHAEL E., Associate Professor of Music, 1969
D.Mus.A. 1968, West Virginia University
- CHAIT, HERSCHEL N., Assistant Professor of Psychology, 1973
B.A. 1968, Brooklyn College of the City University of New York; graduate study, Indiana University
- CHAKRABARTY, MANOJ R., Professor of Chemistry, 1963
Ph.D. 1962, University of Toronto
- CHAPMAN, SARA S., Associate Professor of English, 1967
Ph.D. 1970, Ohio University
- CHEN, CHI HSIN, Assistant Professor of Engineering, 1967
Ph.D. 1968, Virginia Polytechnic Institute
- CHEN, FU TUNG, Associate Professor of Accounting, 1972
Ph.D. 1965, University of Alabama
- CHEZIK, DONALD D., Associate Professor of Psychology, 1970
Ph.D. 1971, Indiana University
- CHOI, SOO BOCK, Professor of Political Science, 1963
Ph.D. 1963, University of Maryland
- CLAGG, SAM E., Professor of Geography, 1948
Ed.D. 1955, University of Kentucky
- CLARK, ROBERT R., Associate Professor of Music, 1967
Ph.D. 1972, University of Michigan
- COFFEY, WILLIAM E., Associate Professor of Social Studies, 1969
Ph.D. 1970, West Virginia University
- COLLEN, ARNOLD R., Assistant Professor of Psychology, 1971
Ph.D. 1971, Ohio State University
- COLLINS, PAUL H., Director of Community Services and Associate Professor of Education, 1949.
M.A. 1943, West Virginia University; graduate study, Harvard University, University of Virginia
- COMFORT, RICHARD O., Professor of Sociology, 1971
Ph.D. 1946, George Peabody College for Teachers
- COX, CHARLES W., Assistant Professor of Social Studies, 1969
Ed.D. 1971, Ball State University
- CREIGHTON, JOHN W., Associate Professor of Music, 1945
M.A. 1942, Northwestern University; graduate study, St. Louis University, Juilliard School of Music, Northwestern University
- CUBBY, EDWIN A., Professor of Social Studies, 1949
Ph.D. 1962, Syracuse University
- CUSICK, DAVID A., Assistant Professor of Mathematics, 1971
Ph.D. 1971, Indiana University

- CYRUS, PHYLLIS H., Associate Professor of Finance, 1960
J.D. 1938, West Virginia University
- DAVIDSON, WILLIAM R., Associate Professor of Music, 1955
M.Mus. 1947, University of Illinois; graduate study, University of Illinois,
Columbia University
- DEEL, WILLIAM S., Assistant Dean of the College of Education and Assistant
Professor of Education, 1969
Ed.D. 1971, Indiana University
- DEUTSCH, LEONARD J., Assistant Professor of English, 1970
Ph.D. 1972, Kent State University
- DEVOS, BRADFORD R., Associate Professor of Music, 1967
Ph.D. 1971, Boston University
- DINGMAN, ROBERT L., Associate Professor of Education, 1968
Ed.D. 1971, Wayne State University
- DOUGLASS, JAMES E., Professor of Chemistry, 1965
Ph.D. 1959, University of Texas
- DREWRY, L. AUBREY, JR., Dean of College of Business and Applied Science
and Professor of Finance, 1973
Ph.D. 1960, University of Virginia
- DUKE, DAVID C., Assistant Professor of History, 1972
Ph.D. 1970, University of Tennessee
- DUMKE, WARREN L., Associate Professor of Physics and Physical Sciences
(Physics), 1967
Ph.D. 1965, University of Nebraska
- EAST, N. BENNETT, Assistant Professor of Speech, 1970
Ph.D. 1970, University of Kansas
- EISENMAN, PATRICIA A., Assistant Professor of Physical Education, 1973
Ph.D. 1973, Kent State University
- FEI, PETER K., Associate Professor of English, 1967
Ph.D. 1970, University of Michigan
- FELTY, WALTER C., Associate Professor of Education, 1950
M.A. 1950, Marshall University; graduate study, Indiana University,
Pennsylvania State University, University of Kentucky
- FEUERLE, PETER, Assistant Professor of Political Science, 1971
Ph.D. 1971, University of Kansas
- FIELDS, DAVID E., Assistant Professor of Mathematics, 1972
Ph.D. 1970, Florida State University
- FIELDS, JERRY W., Assistant Professor of Mathematics, 1972
Ph.D. 1972, Texas Christian University

- FISHER, DOROTHY A., Professor of Biological Sciences (Zoology), 1946
Ph.D. 1942, Cornell University; postdoctoral study, Cornell University,
University of North Carolina, University of Minnesota, University of
Michigan
- FULKS, DANNY G., Associate Professor of Education, 1968
Ed.D. 1968, University of Tennessee
- GAIN, RONALD E., Assistant Professor of Biological Sciences (Botany), 1969
Ph.D. 1968, West Virginia University
- GALGANO, MICHAEL J., Assistant Professor of History, 1971
Ph.D. 1971, Vanderbilt University
- GARRETT, RUTH C., Professor of Speech, 1953
Ph.D. 1968, Ohio University
- GERKE, ROBERT S., Associate Professor of English, 1968
Ph.D. 1968, University of Notre Dame
- GIBBINS, NEIL L., Professor of Education, 1963
Ph.D. 1960, Ohio State University
- GILLENWATER, MACK H., Assistant Professor of Geography, 1968
Ph.D. 1972, University of Tennessee
- GOODWIN, JOHN B., Associate Professor of Bible and Religion, 1968
Ph.D. 1970, Temple University
- GORDON, BILL K., Associate Professor of Education, 1967
Ed.D. 1967, University of Kentucky
- GOULD, ALAN B., Associate Professor of History, 1969
Ph.D. 1969, West Virginia University
- GREENOUGH, H. PAUL, Assistant Professor of Mathematics, 1973
Ph.D. 1973, Indiana University
- HALE, ROSCOE, JR., Associate Professor of Education, 1968
Ph.D. 1971, Ohio University
- HAMMOND, BETTY R., Assistant Professor of Physical Education, 1973
Ed.D. 1973, University of Northern Colorado
- HANRAHAN, EDWARD S., Professor of Chemistry, 1963
Ph.D. 1959, West Virginia University
- HARBOLD, GEORGE J., Dean of College of Arts and Sciences and Professor of
Speech, 1947
Ph.D. 1955, Ohio State University
- HARRIS, EVERETT W., Assistant Professor of Education, 1973
Ed.D. 1973, University of Illinois
- HART, HYMEN H., Associate Professor of English, 1972
Ph.D. 1967, University of Illinois

- HARVEY, PAULINE M., Assistant Professor of Education, 1968
Ph.D. 1971, Ohio State University
- HAYES, ROBERT B., Dean of College of Education and Professor of Education,
1965
Ed.D. 1960, University of Kansas
- HEMPHILL, JOHN M., II, Associate Professor of History, 1972
Ph.D. 1964, Princeton University
- HESS, CLARKE F., Professor of Education, 1951
Ed.D. 1958, University of Pennsylvania
- HICKS, DOROTHY E., Associate Director of Athletics and Professor of Physical
Education, 1969
Ed.D. 1964, University of Tennessee
- HOAK, EUGENE Q., Professor of Speech, 1960
Ph.D. 1954, Ohio State University
- HOBACK, JOHN H., Professor of Chemistry, 1945
Ph.D. 1947, West Virginia University
- HOGAN, JOHN W., Professor of Mathematics, 1969
Ph.D. 1969, Virginia Polytechnic Institute
- HOPE, BEN W., Professor of Speech, 1947
Ph.D. 1960, Ohio State University
- HOY, LOUISE P., Professor of Classical Studies, 1963
Ph.D. 1952, Bryn Mawr College
- HUNTER, HELEN S., Assistant Professor of Education, 1957
M.A. 1956, Marshall University; M.A. 1964, Marshall University; graduate
study, Florida State University
- IMPERI, LEO V., Associate Professor of Music, 1952
M.A. 1951, Columbia University; graduate study, Columbia University,
University of Denver
- IRVIN, JAMES E., Professor of Education, 1959
Ph.D. 1958, Ohio State University
- JENKINS, OFFA LOU, Professor of Education, 1965
Ed.D. 1967, University of Virginia; postdoctoral study, Purdue University
- JENNINGS, LOUIS B., Professor of Bible and Religion, 1948
Ph.D. 1964, University of Chicago
- JERVIS, JACK JR., Associate Professor of Education, 1964
Ed.D. 1971, University of Tennessee
- JOHNSON, DOROTHY R., Associate Professor of Speech, 1965
Ph.D. 1972, Ohio State University
- JONES, CHARLES I., Professor of Education, 1969
Ed.D. 1967, Florida State University

- JONES, LAVELLE T., Associate Professor of Music, 1947
M.A. 1942, George Peabody College for Teachers; graduate study, Cincinnati Conservatory of Music, George Peabody College of Teachers, University of Denver, Temple University, University of Maine, Marshall University
- JOY, JAMES E., Assistant Professor of Biological Sciences, 1972
Ph.D. 1970, Texas A & M University
- KADEMANI, GURU B., Assistant Professor of Management, 1973
Ph.D. 1973, University of Georgia
- KAHLE, E. BOWIE, Assistant Professor of Biological Sciences, 1968
Ph.D. 1972, West Virginia University
- KARR, CAROLYN M., Assistant Professor of Social Studies, 1966
Ph.D. 1972, Ohio State University
- KELLNER, CLARENCE A., Associate Professor of Speech, 1969
Ph.D. 1969, Ohio University
- KHATENA, JOSEPH, Professor of Education, 1969
Ph.D. 1969, University of Georgia
- KILGORE, JUNE Q., Associate Professor of Art, 1959
M.F.A. 1971, Pratt Institute
- KONG, CHANG L., Associate Professor of Chemistry, 1967
Ph.D. 1967, St. Louis University
- KOONTZ, DAVID E., Associate Professor of Education, 1970
Ph.D. 1967, Kent State University
- KUMLIEN, WENDELL C., Professor of Music, 1973
D.Mus.A. 1969, University of Illinois
- LA CASCIA, JOSEPH S., Professor of Economics, 1969
Ph.D. 1967, University of Florida
- LANCASTER, JOHN S., Assistant Professor of Mathematics, 1972
Ph.D. 1972, Indiana University
- LANEGGER, ALFRED P., Associate Professor of Music, 1947
M.M. 1947, Syracuse University; Diploma, State Academy of Music, Munich, Germany, 1929
- LARSON, JOHN W., Associate Professor of Chemistry, 1968
Ph.D. 1968, Carnegie-Mellon University
- LEAMING, DERYL R., Professor of Journalism, 1973
Ph.D. 1969, Syracuse University
- LEPLEY, ARTHUR R., Professor of Chemistry, 1965
Ph.D. 1958, University of Chicago
- LEWIS, HAROLD E., JR., Assistant Professor of Education, 1972
Ed.D. 1972, Auburn University

- LICHTENSTEIN, JOSEPH M., Professor of Education, 1946
M.A. 1940, Fordham University; graduate study, Columbia University,
Rutgers University, University of Cincinnati, New York University
- LUSTIG, VINCENT F., Assistant Professor of Speech, 1969
Ph.D. 1970, Ohio State University
- McCOY, ZANE, Associate Professor of Education, 1969
Ph.D. 1970, Ohio State University
- McDOWELL, WILLIAM A., Assistant Professor of Education, 1971
Ph.D. 1971, Kent State University
- McNEARNEY, CLAYTON L., Assistant Professor of Bible and Religion, 1972
Ph.D. 1970, University of Iowa
- MANAKKIL, THOMAS J., Associate Professor of Physics and Physical Sciences
(Physics), 1967
Ph.D. 1967, New Mexico State University
- MARTIN, JOHN L., Professor of Modern Languages (Spanish), 1935
Ph.D. 1940, University of Pittsburgh
- MATZ, CLAIR W., JR., Assistant Professor of Political Science, 1970
Ph.D. 1970, University of Virginia
- MEAD, JOHN H., Assistant Professor of Music, 1969
D.Mus.A. 1973, University of Kentucky
- MILLER, M. ALAN., Associate Professor of Marketing, 1973
Ph.D. 1973, University of Arkansas
- MILLS, MARVIN D., Associate Professor of Safety Education, 1968
Ed.D. 1973, New York University
- MININNI, FRANK J., Associate Professor of Philosophy, 1970
Ph.D. 1970, University of Innsbruck
- MITCHELL, MARVIN O., Professor of English, 1952
Ph.D. 1953, University of North Carolina
- MODLIN, PHILIP E., Assistant Professor of Biological Sciences, 1957
M.A. 1957, Marshall University; graduate study, West Virginia University
- MOFFAT, CHARLES H., Professor of History, 1946
Ph.D. 1946, Vanderbilt University
- MOORE, D. WAYNE, Associate Professor of Education, 1972
Ed.D. 1970, North Carolina State University
- NECCO, EDWARD G., Associate Professor of Education, 1972
Ed.D. 1970, University of Virginia
- NEELY, HAROLD E., Director of Grants and Associate Professor of Political
Science, 1972
Ph.D. 1969, West Virginia University, L.L.B., 1946, Harvard Law School

- NOVAK, ELAINE A., Professor of Speech, 1956
Ph.D. 1963, Ohio State University
- OBERLY, RALPH E., Assistant Professor of Physics and Physical Sciences
(Physics), 1970
Ph.D. 1970, Ohio State University
- O'CONNELL, THOMAS S., Associate Professor of Music, 1948
M.M. 1947, University of Michigan; graduate study, University of Michigan
- OLSON, LeVENE A., Assistant Professor of Education, 1971
Ed.D. 1971, University of Georgia
- OLSON, ROBERT D., Professor of Speech, 1968
Ph.D. 1965, Northwestern University
- PAGE, CLAYTON R., Professor of Speech, 1946
M.A. 1939, Pennsylvania State University; M.A. 1940, Baylor University;
graduate study, State University of Iowa
- PANKIN, MARK D., Assistant Professor of Mathematics, 1972
Ph.D. 1971, University of Illinois at Chicago
- PARRISH, VIRGINIA N., Associate Professor of Modern Languages (French),
1947
M.A. 1940, University of Kentucky; graduate study, University of
Kentucky
- PEELE, CHARLES V., Assistant Professor of Mathematics, 1967
Ph.D. 1971, University of Cincinnati
- PERL, WALTER H. Professor of Modern Languages (German), 1948
Ph.D. 1936, University of Zurich
- PERRY, SIMON D., Professor of Political Science, 1962
Ph.D. 1961, Michigan State University
- PITTMAN, PHILIP M., Associate Professor of English, 1968
Ph.D. 1967, Vanderbilt University
- PLOTT, JOHN C., Associate Professor of Philosophy, 1965
Ph.D. 1956, Banaras Hindu University
- PLYMALE, EDWARD L., Professor of Biological Sciences (Botany), 1946
Ph.D. 1942, State University of Iowa
- PRICE, HOWARD C., Assistant Professor of Chemistry, 1971
Ph.D. 1971, State University of New York, Binghamton
- QUEEN, BERNARD, Professor of Education, 1963
Ph.D. 1967, Ohio State University
- RAILEY, JIMMY H., Professor of Physical Education, 1971
P.E.D. 1969, Indiana University
- RAMSEY, WILLIAM C., Assistant Professor of English, 1970
Ph.D. 1971, University of North Carolina

- REGULA, WALTER E., Associate Professor of Education, 1962
Ph.D. 1965, Ohio State University
- RIDDEL, FRANK S., Assistant Professor of Social Studies, 1968
Ph.D. 1971, Ohio State University
- RITCHIE, CHARLES C., JR., Professor of Education, 1959
Ed.D. 1963, West Virginia University
- ROBERTS, JOSEPH L., Associate Professor of Chemistry, 1966
Ph.D. 1964, University of Cincinnati
- ROGERS, WILEY S., Professor of Geology, 1969
Ph.D. 1960, University of North Carolina
- ROSSWURM, RICHARD H., Assistant Professor of Political Science, 1968
Ph.D. 1973, University of Maryland
- SANDERSON, DEWEY D., Assistant Professor of Geology, 1971
Ph.D. 1972, Michigan State University
- SHANHOLTZER, WESLEY L., Associate Professor of Physics and Physical Sciences (Physics), 1966
Ph.D. 1968, West Virginia University
- SHEPHERD, JANE B., Professor of Music, 1958
M.M. 1942, Cincinnati Conservatory of Music; graduate study, Juilliard School of Music
- SILL, MAURICE L., Professor of Sociology, 1969
Ph.D. 1958, Pennsylvania State University
- SIMPKINS, KATHERINE W., Associate Professor of Education, 1971
Ph.D. 1969, Ohio University
- SIMPKINS, O. NORMAN, Professor of Sociology, 1948
Ph.D. 1953, University of North Carolina
- SINGH, RAM N., Associate Professor of Sociology, 1969
Ph.D. 1970, University of Georgia
- SISARCICK, WOOD C., Associate Professor of Mathematics, 1965
Ph.D. 1971, University of Kentucky
- SLAATTE, HOWARD A., Professor of Philosophy, 1965
Ph.D. 1956, Drew University
- SMITH, JOHN E., Assistant Professor of Education, 1969
Ed.D. 1969, West Virginia University
- STACY, WILLIAM B., Assistant Professor of Music, 1968
D.Mus.A. 1972, University of Colorado
- STEWART, PAUL D., Professor of Political Science, 1948
Ph.D. 1948, Duke University
- STEWART, TROY M., JR., Assistant Professor of Political Science, 1972
Ph.D. 1973, West Virginia University

- STONE, JOSEPH M., JR., Instructor in Finance, 1971
J.D. 1970, West Virginia University
- SULLIVAN, WILLIAM P., Professor of English, 1968
Ph.D. 1961, Columbia University
- TAGGART, JAMES L., Associate Professor of Music, 1970
Ph.D. 1963, University of Iowa
- TARTER, DONALD C., Associate Professor of Biological Sciences (Zoology),
1969
Ph.D. 1968, University of Louisville
- TAYLOR, RALPH W., Assistant Professor of Biological Sciences, 1972
Ph.D. 1972, University of Louisville
- TAYLOR, WAYNE G., Assistant Professor of Physical Education, 1971
Ed.D. 1971, University of Tennessee
- TEN HARMSEL, LARRY J., Director of University Honors and Assistant
Professor of English, 1971
Ph.D. 1971, Ohio University
- THEIS, ANN V., Associate Professor of Education, 1953
M.A. 1948, Case Western Reserve University; M.S. in Library Science,
1955, Case Western Reserve University
- THOMPSON, LAYTON O., Associate Professor of Mathematics, 1955
M.S. 1955, West Virginia University
- TOULOUSE, RONALD L., Associate Professor of Office Administration, 1972
Ph.D. 1971, Georgia State University
- TURNER, TAYLOR E., JR., Associate Professor of Education and Director of
Reading Center, 1968
Ed.D. 1967, University of Virginia
- TYSON, A. MERVIN, Director of Writing and Professor of English, 1959
Ph.D. 1952, University of Pennsylvania
- VICKERS, CAROLE A., Associate Professor of Home Economics, 1966
Ph.D. 1969, Ohio State University
- WALLACE, WILLIAM A., Professor of Education, 1967
Ed.D. 1966, Wayne State University
- WALTON, DAVID M., Assistant Professor of Psychology, 1972
Ph.D. 1972, Ohio State University
- WARD, GEORGE II, Professor of Psychology, 1962
Ph.D. 1961, Ohio State University
- WARD, HAROLD E., Professor of Biological Sciences, 1950
Ph.D. 1964, Ohio State University
- WARREN, JOHN R., Professor of Biological Sciences (Botany), 1964
Ph.D. 1950, Ohio State University

- WEAKS, THOMAS E., Assistant Professor of Biological Sciences, 1971
Ph.D. 1971, University of Tennessee
- WEILL, HERMAN N., Dean of Graduate School and Professor of History, 1972
Ph.D. 1959, University of Illinois
- WELLMAN, RUTH T., Associate Professor of Education, 1970
Ph.D. 1971, Ohio University
- WHEAR, PAUL W., Professor of Music, 1969
Ph.D. 1961, Case Western Reserve University
- WHITLEY, W. THURMON, Associate Professor of Mathematics, 1970
Ph.D. 1969, Virginia Polytechnic Institute
- WILEY, HAROLD L., Professor of Education, 1946
Ed.D. 1958, University of Tennessee
- WILLIAMS, T. D. DUNCAN, Professor of English, 1966
M.A. 1956, Oxford University, England
- WILLIAMS, TONY L., Associate Professor of Education, 1970
Ed.D. 1970, West Virginia University
- WILLIAMS, W. DONALD, Associate Professor of Physical Education, 1972
Ed.D. 1971, Virginia Polytechnic Institute and State University
- WISWELL, MEREDITH P., Assistant Professor of Finance, 1970
J.D. 1948, University of Michigan (Law); Th.M. 1959, Claremont
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- WOLF, ELIZABETH B., Professor of Psychology, 1960
Ph.D. 1946, Case Western Reserve University
- WOLFF, ROBERT D., Professor of Music, 1963
Ed.D. 1961, Columbia University
- WOODEN, WARREN W., Associate Professor of English, 1968
Ph.D. 1971, Vanderbilt University
- WOODWARD, DAVID R., Professor of History, 1970
Ph.D. 1965, University of Georgia

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